1974

Water Resources Data for Colorado

Part 2. Water Quality Records

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

CALENDAR FOR WATER YEAR 1974

1973

OCTOBER

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
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NOVEMBER

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1974

JANUARY

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JULY

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AUGUST

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SEPTEMBER

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22	23	24	25	26	27	28
29	30					

Prepared in cooperation with

COLORADO WATER CONSERVATION BOARD
BUREAU OF RECLAMATION, U.S. DEPARTMENT OF THE INTERIOR
ENVIRONMENTAL PROTECTION AGENCY

Water resources records, 1974, for Colorado are in the following reports of the U.S. Geological Survey:

1. Water Resources Data for Colorado
   Part 1: Surface Water Records

2. Water Resources Data for Colorado
   Part 2: Water Quality Records

Copies of this report may be obtained from
District Chief, Water Resources Division
U.S. Geological Survey
Denver Federal Center
Lakewood, Colorado 80225

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WATER-QUALITY RECORDS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

WATER RESOURCES DATA FOR COLORADO, 1974

Part 2: Water Quality Records

INTRODUCTION

Water-resources investigations of the U.S. Geological Survey include the collection of water quality data on the chemical, physical, and biological characteristics of surface- and ground-water supplies of the Nation. These water quality data for surface waters in Colorado for the 1974 water year are presented in this report. Data for a few water-quality stations in bordering States are also included. The data were collected by the Colorado district of the U.S. Geological Survey under the direction of J. E. Biesecker, district chief.

Water quality information is presented for chemical quality, fluvial sediment, and water temperatures. The chemical quality includes concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, sodium-adsorption-ratio, specific conductance, and pH. Fluvial sediment information is given for suspended-sediment discharges and concentrations and for particle size distribution of suspended sediment and bed material. Water temperature data represent once-daily observations except for stations where a continuous temperature recorder furnishes information from which daily minimums and maximums are obtained.

The Geological Survey has published an annual series of water-supply papers, "Quality of Surface Waters of the United States," since 1941 which contain the chemical quality, temperature, and fluvial sediment data of the water. Each volume covers an area whose boundaries coincide with those of certain natural drainage areas. Beginning with the 1964 water year, water quality records for surface and ground water obtained by the Geological Survey were published in a new series of annual releases on a State boundary basis. Distribution of these reports is limited; they are designed primarily for rapid release of data shortly after the end of the water year and to meet local needs. These records will be published later in Geological Survey Water-Supply Papers.

COOPERATION

Most data in this report were obtained as part of the Federal Program of the U.S. Geological Survey or in cooperation with the Bureau of Reclamation, U.S. Department of the Interior, and the Environmental Protection Agency. Investigations of some ground water and surface water were made under cooperative agreement between the U.S. Geological Survey and the Colorado Water Conservation Board, F. L. Sparks, director.

DEFINITION OF TERMS

The terms and abbreviations of water-quality and hydrologic data as used in the text and tabular data of this report, are defined below. See also table for converting English units to International System (SI) Units on page 20.

Acre-foot (ac-ft) is a quantity of water required to cover 1 acre (4,047 m^3) to a depth of 1 ft (0.3048 m) and is equal to 43,560 cubic feet (1,1234 m^3) or 325,851 gallons (1,234,000 l).

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 ± 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 ± 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 ± 1.0°C on M-enterrococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Cfs-days is the volume of water represented by a flow of 1 cubic foot (0.02832 m^3) per second for 24 hours. It equals 86,400 cubic feet (2,477 m^3), 1.9835 acre-feet (2,447 m^3), or 646,317 gallons (2,447,000 l).

Chemical oxygen demand (COD) indicates the quantity of oxidizable compounds in water and varies with water composition(s), temperature, period of contact, and other factors.

Continuing-record station is a specified site which meets one or all conditions listed:

1. When chemical samples are collected daily or monthly for 10 or more months during the water year.

2. When water temperature records include observations taken one or more times daily.

3. When sediment discharge records include those periods for which sediment loads are computed and are considered to be representative of the runoff for the water year.

Cubic feet per second (cfs, CFS) is the rate of discharge representing a volume of 1 cubic foot (0.02832 m^3) passing a given point during 1 second and is equivalent to 7.48 gallons (28.32 l) per second, or 448.8 gallons (1,699 l) per minute.

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

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

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

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 river above the specified point.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

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 litre (ug/l, UG/L) is a more precise unit for expressing the concentration of chemical constituents in solution. One thousand micrograms per litre is equivalent to one milligram per litre. See below.

Milligrams per litre (mg/l, MG/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per litre represents the weight of solute per unit volume of water. Milligrams or micrograms per litre may be converted to milliequivalents (one thousandths of a gram-equivalent weight of a constituent) per litre by multiplying by the factors in table 1, page 5. Concentration of suspended sediment also is expressed in mg/l, and is based on the weight of sediment per litre of water-sediment mixture. Sediment concentrations may be converted to parts per million by using the factors in table 2, page 6.

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

Particle size is the diameter, in millimetres (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).

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:

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

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

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

Ion	Multiply by	Ion	Multiply by
Aluminum (Al^{+3})*....	0.11119	Iodide (I^{-1}).....	0.00788
Ammonia as NH_4^{+1}....	.05544	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 (NO_3^{-1})...	.01613
Chromium (Cr^{+6})*....	.11539	Nitrite (NO_2^{-1})...	.02174
Cobalt (Co^{+2})*.....	.03394	Phosphate (PO_4^{-3}).	.03159
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 litre; multiply by factor and divide results by 1,000.

Table 2.--*Factors for conversion of sediment concentration in milligrams per litre to parts per million**
(All values calculated to three significant figures)

Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by
0 - 8	1.00	201-217	1.13	411-424	1.26	619-634	1.39
8.05- 24	1.01	218-232	1.14	427-440	1.27	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.

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).

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. It 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 0.9 m above the bed) expressed as milligrams of dry sediments per litre 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 centimetre 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 litre) is about 65 percent of the specific conductance (in micromhos per cm 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.

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 m^3) of water. It is computed by multiplying the concentration in milligrams per litre 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.

Water year in Geological Survey reports dealing with surface water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1974, is called the "1974 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.

SPECIAL NETWORKS

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-to-year basis, and (2) to detect and assess long-term changes in stream quality.

DOWNSTREAM ORDER AND STATION NUMBERS

A station number has been assigned as an added means of identification for each stream location where regular measurements of streamflow and determinations of water quality have been made. The numbers have been assigned in the same downstream order used in the annual series of Water-Supply Papers. In assigning station numbers, no distinction is made between surface water gaging stations and water quality record stations. 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 06754000, includes the part number "06" and a 6-digit station number. This complete number appears just to the left of the station number. In this report, the records are listed in downstream order by parts. All records for a drainage basin encompassing more than one State could be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

Miscellaneous sampling sites which were sampled on a one-time only basis have an 8-digit station number if the site was an established water data station. Sites not located at established stations have a 15-digit number based on latitude, longitude, and a 2-digit sequence number to differentiate between stations having the same latitude and longitude. Thus station number 394541105410200 is composed of the latitude 39°45'41", the longitude 105°41'02", and a sequence number of 00 since this is the only sampling site with this latitude and longitude. Miscellaneous records with 15-digit numbers are listed by increasing latitude and longitude.

EXPLANATION OF WATER QUALITY DATA

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. Discharge records for streams in Colorado have been released in the report, "Water Resources Data for Colorado, Part 1. Surface Water Records." The map (fig. 1) shows the location of the surface water stations sampled in 1974.

The data in this report include a description of the sampling station and tabulations of the samples analyzed. The description of the sampling station gives 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-adsorption-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. Water-temperature data represent once-daily observations except for stations where a continuous temperature recorder (thermograph) furnishes information from which daily minimums and maximums are obtained. Fluvial-sediment information is given for suspended-sediment discharges and concentrations and for particle-size distribution of suspended sediment and bed material.

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 U.S. Geological Survey began reporting data for chemical constituents and concentrations of suspended sediment in milligrams per litre (mg/l) and water temperatures in degrees Celsius (°C). In waters with a density of 1.000 g/ml (grams per millilitre), parts per million and milligrams per litre 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 litre. Temperature reported in degrees Celsius may be converted to degrees Fahrenheit by using the table on page 12.

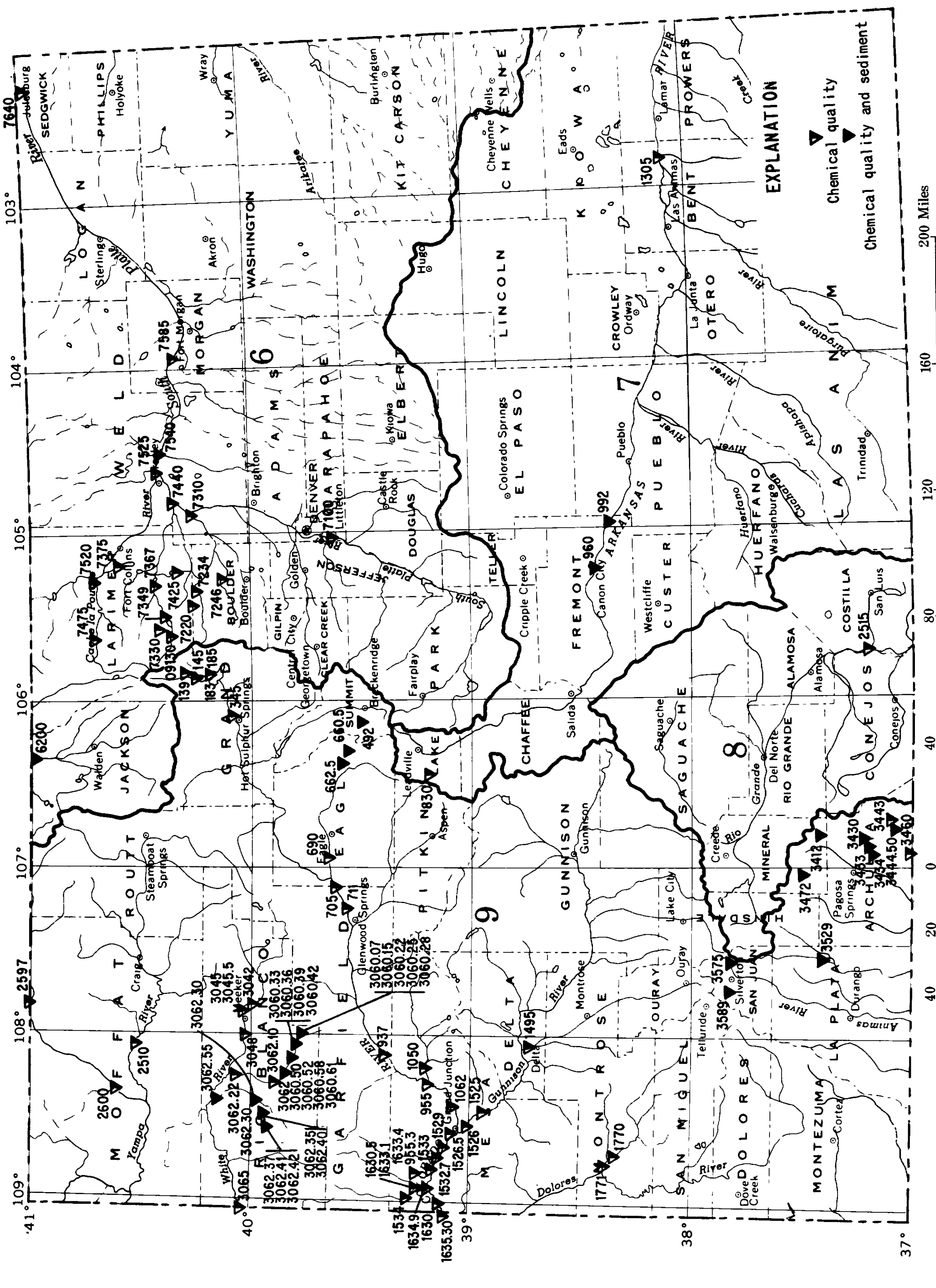

Figure 1.--Map of Colorado showing locations of sites where data on quality of surface water were obtained during the water year. Water-temperature data were obtained daily at some of these sites.

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements in micrograms per litre instead of milligrams per litre. (See "Definition of Terms," p. 2 and table for converting English units to SI units, p. 20).

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°.

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). The method for determining elemental constituents by emission spectographic techniques is described by Barnett and Mallory (1971). Analysis of pesticides, herbicides, 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 consist of daily mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the U.S. Geological Survey district office at the address given on the back of the title page of this report.

Temperature

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

At stations where continuously recording thermographs are present, the records consist of maximum and minimum temperatures for each day.

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 sub-divided 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 sub-divided 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.

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 1947-71*

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	1693
1960	1743	1744	1744	1745	1746
1961	1883	1884	1884	1885	1886
1962	1943	1944	1944	1945	1946
1963	1949	1950	1950	1951	1952
1964	1956	1957	1957	1958	1960
1965	1963	1964	1964	1965	1967
1966	1993	1994	1994	1995	----
1967	2013	2014	2014	2015	----
1968	2095	2096	2097	2098	----
1969	2145	2146	2147	2148	----
1970	2155	2156	2157	2158	----
1971	B2165	B2166	B2167	B2168	----

A. Annual series, "Quality of Surface Waters for Irrigation, Western States."
B. In preparation.

ADDITIONAL WATER QUALITY DATA

During the 1974 water year additional water-quality data were collected for specific projects, but are not included in this report. These data will be published later in separate reports. A tentative list of authors, titles of reports, and estimated publication dates for these reports follows:

Adams, D. B., late 1975, Lakes in the Colorado Springs-Castle Rock area, Front Range Urban Corridor, Colorado: U.S. Geol. Survey Misc. Inv. Map I-857.

Brogden, R. E., and Hutchinson, E. C., mid-1976, Ground-water resources evaluation of the Southern Ute Indian Reservation, Colorado: Colorado Water Conserv. Board Water Resources Circ.

Emmons, P. J., early 1976, Waterlogging in an alluvial aquifer, Lake Minnequa area, Colorado: Colorado Water Conserv. Board Water Resources Circ.

Goddard, K. E., mid-1976, Water resources of the upper Arkansas Valley, Salida to Leadville, Colorado: Colorado Water Conserv. Board Water Resources Circ.

Hurr, R. T., and Schneider, P. A., Jr., mid-1976, Ground water resources of Boxelder Creek Valley in northeastern Larimer County, Colorado: Colorado Water Conserv. Board Water Resources Circ.

Klein, J. M., Goddard, K. E., and Livingston, R. K., late 1976, Appraisal of water resources of Park and Teller Counties, Colorado: Colorado Water Conserv. Board Water Resources Circ.

Moran, R. E., early 1976, Selenium content of the ground water of the Golden area, Colorado: Denver, Colo., U.S. Geol. Survey open-file rept.

Robson, S. G., mid-1977, Effects of a cattle feedlot on ground-water quality: Denver, Colo., U.S. Geol. Survey open-file rept.

Weeks, J. B., Welder, F. A., and Saulnier, G. J., mid-1976, Hydrologic and geophysical data from the Piceance Basin, Colorado: Colorado Water Resources Basic-Data Release.

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

American Public Health Association, and others, 1971, Standard methods for the examination of water and waste water, 13th ed: Am. Public Health Assoc., New York, 874 p.

Barker, F. B., and Johnson, J. O., 1964, Determination of radium in water: U.S. Geol. Survey Water-Supply Paper 1696-B, 29 p.

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Barker, F. B., and Robinson, B. P., 1963, Determination of beta activity in water: U.S. Geol. Survey Water-Supply Paper 1696-A, 32 p.

Barnett, P. R., and Mallory, E. C., Jr., 1971, Determination of minor elements in water by emission spectroscopy: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. A2, 31 p.

Brown, Eugene, Skougstad, M. W., and Fishman, M. J., 1970, Methods for collection and analysis of water samples for dissolved minerals and gases: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. A1, 160 p.

Clarke, F. W., 1924, The composition of the river and lake waters of the United States: U.S. Geol. Survey Prof. Paper 135, 199 p.

Colby, B. R., 1963, Fluvial sediments--a summary of source, transportation, deposition, and measurements of sediment discharge: U.S. Geol. Survey Bull. 1181-A, 47 p.

Colby, B. R., and Hembree, C. H., 1955, Computations of total sediment discharge, Niobrara River near Cody, Nebraska: U.S. Geol. Survey Water-Supply Paper 1357, 187 p.

Colby, B. R., and Hubbell, D. W., 1961, Simplified methods for computing total sediment discharge with the modified Einstein procedure: U.S. Geol. Survey Water-Supply Paper 1593, 17 p.

Collins, W. D., and Howard, C. S., 1928, Quality of water of Colorado River in 1925-26: U.S. Geol. Survey Water-Supply Paper 596-B, p. 33-43.

Goerlitz, D. F., and Brown, Eugene, 1972, Methods for analysis of organic substances in water: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. A3, 40 p.

Goerlitz, D. F., and Lamar, W. L., 1967, Determination of phenoxy acid herbicides in water by electron-capture and microcoulemetric gas chromatography: U.S. Geol. Survey Water-Supply Paper 1817-C, 21 p.

Gregg, D. O., and others, 1961, Public water supplies of Colorado (1959-60): Colorado State Univ. Agr. Expt. Sta., Gen. Ser. 757, 128 p.

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_____1969, Laboratory theory and methods for sediment analysis: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. C1, 57 p.

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Lamar, W. L., Goerlitz, D. F., and Law, L. M., 1965, Identification and measurement of chlorinated organic pesticides in water by electron-capture gas chromatography: U.S. Geol. Survey Water-Supply Paper 1817-B, 12 p.

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

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U.S. Inter-Agency Committee on Water Resources, A study of methods used in measurements and analysis of sediment loads in streams:

Report 11, 1957, The development and calibration of visual accumulation tube: St. Anthony Falls Hydraulic Lab., Minneapolis, Minn., 109 p., 43 figs.

Report 12, 1957, Some fundamentals of particle-size analysis: Washington, U.S. Govt. Printing Office, 55 p. 9 figs.

Report AA, 1959, Federal Inter-Agency sedimentation instruments and reports: St. Anthony Falls Hydraulic Lab., Minneapolis, Minn., 41 p., 27 figs.

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

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

Table 5.--*Factors for converting English units to metric units*
(International System (SI) units)

The following factors may be used to convert the English units published herein to metric units. Subsequent reports will contain both the English and metric unit equivalents in the station manuscript descriptions until such time that all data will be published in metric units.

Multiply English units	By	To obtain metric units
	Length	
inch (in)	2.54	centimetre (cm)
	25.4	millimetre (mm)
	.0254	metre (m)
foot (ft)	.3048	metre (m)
yard (yd)	.9144	metre (m)
rod	5.0292	metre (m)
mile (mi)	1.609	kilometre (km)
	Area	
acre	4047	square metre (m^2)
	.4047	hectare (ha)
	.004047	square kilometre (km^2)
square mile (mi^2)	2.590	square kilometre (km^2)
	Volume	
gallon (gal)	3.785	litre (l)
	3.785	cubic decimetre (dm^3)
	.003785	cubic metre (m^3)
million gallons (10^6 gal or Mgal)	3785	cubic metre (m^3)
	.003785	cubic hectometre (hm^3)
cubic foot (ft^3)	28.32	cubic decimetre (dm^3)
	.02832	cubic metre (m^3)
cubic foot per second-day (ft^3/s-d)	2447	cubic metre (m^3)
	.002447	cubic hectometre (hm^3)
acre-foot (acre-ft)	1233	cubic metre (m^3)
	.001233	cubic hectometre (hm^3)
	Flow	
cubic foot per second (ft^3/s)	28.32	litre per second (l/s)
	28.32	cubic decimetre (dm^3/s)
	.02832	cubic metre per second (m^3/s)
gallon per minute (gal/min)	.06309	litre per second (l/s)
	.06309	cubic decimetre per second (dm^3/s)
	6.309×10^{-5}	cubic metre per second (m^3/s)
million gallons per day (10^6 gal/d or Mgal/d)	43.81	cubic decimetre per second (dm^3/s)
	.04381	cubic metre per second (m^3/s)
	Mass	
ton (short, 2,000 lbs)	907.2	kilogram (kg)
	.9072	tonne (t)

PLATTE RIVER BASIN

06620000 NORTH PLATTE RIVER NEAR NORTHGATE, COLO.

LOCATION.--Lat 40°56'10", long 106°20'21", in SW¼SE¼ sec.11, T.11 N., R.80 W., Jackson County, at gagirg station, 350 ft (110 m) downstream from bridge on State Highway 125, 0.8 mi (1.3 km) upstream from Camp Creek, 4.2 mi (6.8 km) northwest of Northgate, and 4.4 mi (7.1 km) south of Colorado-Wyoming State line.

DRAINAGE AREA.--1,431 mi² (3,706 km²).

PERIOD OF RECORD.--Chemical analyses: October 1965 to September 1974.
Water temperatures: October 1965 to September 1966, June 1971 to November 1972.
Sediment records: October 1971 to September 1974 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
OCT.												
30...	1045	133	11	34	5.6	14	1.6	138	0	22	3.1	.5
NOV.												
27...	1130	A110	14	34	8.6	17	2.1	146	0	30	3.1	.5
DEC.												
17...	1340	A110	13	32	9.0	14	2.1	139	0	28	4.6	.4
JAN.												
21...	1310	A110	14	32	7.8	14	2.1	141	0	25	4.2	.5
FEB.												
21...	1500	A100	15	30	6.9	14	1.6	137	0	21	1.9	.4
MAR.												
27...	1540	A400	8.5	29	9.7	20	4.9	137	0	39	5.7	.3
APR.												
29...	1550	2000	21	27	5.0	9.1	2.1	116	0	9.1	1.9	.2
MAY												
28...	1400	1010	16	27	5.0	11	1.9	107	0	18	3.6	.4
JUNE												
24...	1145	1510	11	37	3.0	12	1.4	140	0	12	1.8	.4
JULY												
23...	1240	840	9.1	27	9.9	12	1.4	134	0	21	1.8	.4
AUG.												
26...	1345	130	5.8	24	9.3	11	1.6	130	0	16	.0	.5

A Daily mean discharge.

DATE	DISSOLVED NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TURBIDITY (JTU)	FECAL COLIFORM (COL. PER 100 ML)	TEMPERATURE (DEG C)
OCT.												
30...	.02	.00	160	.22	57.5	110	.6	276	8.2	3	86	1.5
NOV.												
27...	.02	.02	181	.25	53.8	120	.7	311	8.2	4	87	.0
DEC.												
17...	.00	.01	171	.23	50.8	120	.6	294	7.9	4	84	.0
JAN.												
21...	.14	.02	164	.22	48.7	110	.6	278	7.7	3	25	.0
FEB.												
21...	.07	.01	158	.21	42.7	100	.6	271	7.5	2	26	.0
MAR.												
27...	.00	.11	184	.25	199	110	.8	306	7.8	4	83	.0
APR.												
29...	.07	.01	133	.18	718	88	.4	212	8.0	20	821	7.5
MAY												
28...	.09	.00	129	.18	352	88	.5	222	8.1	20	160	14.5
JUNE												
24...	.25	.01	149	.20	607	100	.5	253	7.9	7	60	17.5
JULY												
23...	.07	.00	149	.20	338	110	.5	253	8.2	10	B370	17.5
AUG.												
26...	.07	.01	130	.18	45.6	98	.5	236	8.3	2	B17	17.5

B Non-ideal counting conditions.

06620000 NORTH PLATTE RIVER NEAR NORTHGATE, COLO.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.					
30...	1045	1.5	133	4	1.3
DEC.					
17...	1340	.0	A110	6	1.7
JAN.					
21...	1300	.0	A110	4	1.2
FEB.					
21...	1500	.0	A100	5	1.3
MAR.					
27...	1530	.0	A400	18	19
APR.					
29...	1550	7.5	2000	114	616
MAY					
28...	1400	14.5	1010	81	221
JULY					
23...	1240	17.5	840	40	91
AUG.					
26...	1345	17.5	130	10	3.5

A Daily mean discharge.

06710000 SOUTH PLATTE RIVER AT LITTLETON, COLO.

LOCATION.--Lat 39°37'08", long 105°01'07", in NE¼ sec.17, T.5 S., R.68 W., Arapaho County, temperature recorder at gaging station, on left bank 200 ft (61 m) downstream from Crestline Avenue Bridge at Littleton and 3.1 mi (5.0 km) upstream from Bear Creek.

DRAINAGE AREA.--3,069 mi² (7,949 km²).

PERIOD OF RECORD.--Water temperatures: April 1970 to September 1974.

EXTREMES, 1973-74.--Water temperatures: Maximum, 25.5°C July 17, 20; minimum, freezing point Jan. 29, 30.
Period of record.--Water temperatures: Maximum, 25.5°C July 17, 20, 1974; minimum, freezing point on many days during winter months.

TEMPERATURE (DEG. C) OF WATER . WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	11.0	10.5	7.0	5.5	2.0	3.5	3.0	3.5	0.5	9.0	3.5
2	14.0	11.5	7.5	6.5	5.5	2.5	3.5	3.0	3.5	0.5	9.0	3.0
3	13.0	10.0	6.5	5.5	4.0	2.0	3.5	3.0	4.5	0.5	6.0	2.5
4	14.5	8.5	6.0	5.0	3.0	2.0	4.0	3.0	5.0	0.5	7.0	2.0
5	15.0	9.5	6.5	5.0	2.0	1.5	4.5	3.5	2.0	1.0	9.0	1.5
6	15.0	11.0	7.5	5.0	2.0	1.0	4.0	3.0	3.5	1.5	10.5	2.0
7	15.0	10.5	7.5	6.5	3.0	1.0	3.0	2.5	3.0	1.5	11.0	3.5
8	13.5	10.0	6.0	7.5	3.5	1.5	3.0	3.0	2.5	1.5	10.0	3.5
9	11.0	9.5	9.0	7.0	3.5	1.5	3.0	3.0	5.0	1.0	7.5	4.0
10	9.5	7.5	9.0	5.0	3.0	1.5	3.5	3.0	5.0	1.0	6.0	3.0
11	10.0	6.0	10.5	6.5	3.0	2.0	3.5	3.5	6.0	1.0	10.5	3.0
12	10.0	7.5	9.0	7.0	3.0	1.5	3.5	3.0	7.5	1.5	10.5	3.5
13	13.0	8.0	11.0	7.0	4.0	1.0	3.5	2.5	7.0	1.5	11.0	4.0
14	14.5	8.5	9.0	6.0	3.0	1.5	3.5	3.0	7.5	2.0	10.5	4.5
15	14.5	9.0	6.0	4.5	2.5	1.5	4.0	2.5	7.0	1.5	10.5	5.5
16	14.0	9.5	8.5	4.0	3.0	1.5	4.0	3.5	9.0	1.5	11.0	4.5
17	15.0	9.0	9.0	3.5	3.5	2.0	3.5	3.0	7.0	1.5	14.0	6.5
18	15.0	9.0	8.5	4.0	1.5	1.5	3.5	3.0	8.0	1.5	11.0	6.0
19	15.0	9.0	6.0	2.0	2.0	1.5	4.5	3.0	8.5	1.5	12.0	5.0
20	15.0	9.0	5.0	2.0	2.0	1.5	4.5	2.0	4.5	1.5	8.5	3.5
21	15.5	8.5	4.5	2.0	2.5	1.5	3.5	2.5	8.5	1.5	10.0	1.5
22	15.0	9.0	5.0	1.0	4.0	2.0	2.5	2.0	8.5	1.5	7.0	1.5
23	14.5	9.0	4.0	1.5	2.5	2.0	2.5	1.0	5.5	1.5	7.5	1.0
24	12.0	7.0	4.0	1.5	2.0	2.0	2.0	1.5	7.5	1.5	8.5	1.5
25	10.5	7.0	3.5	1.5	2.0	1.5	2.5	1.0	9.5	1.5	11.5	2.0
26	10.5	8.0	3.5	1.5	3.0	2.0	2.5	0.5	7.0	1.5	10.0	4.0
27	11.0	7.5	3.5	1.5	2.5	1.5	3.0	1.0	8.0	1.0	12.5	5.0
28	12.0	7.0	3.5	1.5	3.0	1.5	2.5	0.5	7.0	2.0	14.0	5.5
29	11.0	7.5	5.0	1.5	2.5	1.5	2.5	0.0	---	---	12.5	3.5
30	11.5	8.0	6.0	2.0	3.0	2.5	2.5	0.0	---	---	13.5	6.0
31	10.0	7.5	---	---	3.0	2.5	3.0	0.5	---	---	10.5	7.5

06710000 SOUTH PLATTE RIVER AT LITTLETON, COLO.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	5.0	16.0	9.0	17.0	13.0	20.0	16.5	24.0	17.0	22.0	19.5
2	9.0	6.0	15.0	10.0	20.0	12.5	21.0	15.0	20.0	17.0	21.0	19.0
3	7.0	3.0	16.5	10.0	15.5	13.0	21.0	15.0	21.0	16.5	21.5	17.5
4	9.0	3.0	16.0	11.0	18.0	12.5	21.0	14.5	21.0	15.0	22.5	17.0
5	11.5	2.5	18.0	10.0	16.0	13.0	22.0	15.5	21.0	15.0	20.5	16.5
6	11.5	5.0	19.5	12.0	14.0	12.5	21.5	14.5	22.5	15.5	23.0	16.0
7	11.0	5.0	20.5	13.5	16.0	11.0	19.5	16.0	21.0	15.5	23.5	16.0
8	13.0	4.5	21.5	14.0	13.0	9.0	21.0	15.0	20.0	15.0	21.5	15.5
9	13.0	6.0	20.0	15.0	14.5	8.0	21.5	14.5	20.0	15.5	21.5	15.5
10	10.0	6.5	17.5	14.0	17.5	11.0	22.0	16.5	19.5	15.0	21.0	15.5
11	8.5	5.5	18.5	11.5	21.0	13.0	22.5	16.5	19.5	15.5	18.0	14.5
12	8.5	5.0	17.5	12.0	22.0	15.0	23.0	17.5	19.0	15.5	14.5	11.0
13	8.0	3.0	16.5	12.5	23.0	15.5	23.5	17.0	18.5	15.5	14.0	12.0
14	8.5	3.5	17.5	11.5	24.0	16.0	24.5	18.0	19.0	17.0	15.5	11.5
15	9.5	4.5	19.0	12.0	23.0	18.0	23.5	18.0	18.5	17.0	16.5	13.0
16	11.0	5.5	20.0	13.0	21.0	16.5	24.0	18.5	19.0	17.0	18.0	13.5
17	12.5	7.5	8.5	15.0	22.0	16.5	25.5	18.5	21.5	17.5	20.0	13.0
18	13.5	8.0	19.5	14.5	24.0	15.5	24.5	18.5	23.5	17.5	20.5	13.5
19	13.0	8.5	18.0	14.5	23.5	16.5	24.5	19.5	21.0	18.0	19.5	13.5
20	12.0	8.0	17.5	12.5	22.5	17.0	25.5	20.5	21.0	17.5	18.5	13.0
21	11.0	8.0	17.0	11.0	23.5	16.0	25.0	20.0	21.5	17.0	18.5	14.0
22	13.5	6.5	16.0	11.0	23.0	17.0	23.0	18.5	21.5	18.0	20.0	13.5
23	13.0	8.5	16.0	12.0	23.5	17.0	24.0	17.5	22.0	18.0	20.0	13.5
24	14.5	9.0	16.0	13.0	24.0	16.5	23.0	18.5	21.0	19.0	19.0	14.0
25	16.0	10.0	19.0	13.0	23.5	18.0	24.0	18.0	20.5	19.5	19.5	13.5
26	15.5	11.5	21.0	14.0	22.5	18.5	24.0	19.0	22.0	19.0	20.0	14.0
27	15.5	10.0	21.5	15.5	23.5	17.0	21.0	17.5	23.5	20.0	16.5	13.0
28	13.5	8.0	20.5	14.0	24.0	16.0	21.0	17.0	22.0	20.5	16.5	11.5
29	11.0	8.0	20.5	14.5	24.5	16.5	20.0	16.5	21.5	19.0	15.5	13.5
30	14.5	7.5	20.5	13.5	23.0	17.0	23.5	16.0	23.0	19.0	18.0	14.0
31	---	---	19.0	13.5	---	---	23.5	17.0	22.0	19.5	---	---

06722000 NORTH ST. VRAIN CREEK AT LONGMONT DAM, NEAR LYONS, COLO.

LOCATION.--Lat 40°13'30", long 105°21'00", in NE¼SW¼ sec.16, T.3 N., R.71 W., Boulder County, on right bank 0.7 mi (1.1 km) upstream from Longmont Dam and 4.2 mi (6.8 km) west of Lyons.

DRAINAGE AREA.--106 mi² (275 km²).

PERIOD OF RECORD.--Chemical analyses: October 1971 to September 1974.

REMARKS.--Records of discharge are estimated values.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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., 1973												
10...	E20	5.7	130	27	2.6	.4	1.4	.3	12	0	10	3.3
NOV.												
05...	E10	5.9	120	10	2.8	.5	1.9	.4	13	0	11	5.4
DEC.												
06...	E15	6.1	40	0	3.2	.3	2.1	.6	12	0	10	2.3
JAN., 1974												
08...	E10	6.4	150	10	3.3	.6	2.7	.4	13	0	11	2.3
FEB.												
21...	E15	6.8	90	17	2.8	.6	2.0	.3	12	0	10	2.4
MAR.												
18...	E15	6.8	110	40	3.8	.9	3.2	.7	13	0	11	4.7
APR.												
16...	E6.0	6.8	160	30	3.5	.6	2.0	.3	13	0	11	3.1
MAY												
10...	E60	7.2	70	0	3.3	.6	2.4	.4	14	0	11	3.9
JUNE												
19...	E125	4.6	110	0	3.2	.5	1.9	.4	10	0	8	3.6
JULY												
25...	E175	5.1	60	0	2.3	.3	1.7	.3	9	0	7	2.3
AUG.												
09...	E40	5.2	50	0	2.0	.7	1.7	.3	10	--	8	3.0
SEP.												
12...	E30	5.5	110	10	2.7	.1	1.4	.5	11	--	9	2.8

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT., 1973												
10...	.6	.2	.01	.02	21	8	0	.2	24	7.5	10.0	8.8
NOV.												
05...	1.1	.0	.07	.02	25	9	0	.3	23	7.6	6.0	9.1
DEC.												
06...	1.2	.1	.07	.01	22	9	0	.3	24	7.3	3.5	10.2
JAN., 1974												
08...	1.2	.1	.03	.00	24	11	0	.4	22	7.3	1.0	10.4
FEB.												
21...	.8	.2	.05	.00	22	9	0	.3	26	8.0	1.5	10.5
MAR.												
18...	.3	.1	.22	.05	28	13	3	.4	26	7.0	4.0	10.4
APR.												
16...	.8	.2	.10	.00	24	11	1	.3	30	7.1	6.5	10.2
MAY												
10...	1.1	.2	.07	.01	26	11	0	.3	28	7.5	6.0	9.5
JUNE												
19...	.6	.3	.00	.01	20	10	2	.3	22	6.9	10.0	9.0
JULY												
25...	1.1	.1	.03	.01	18	7	0	.3	18	6.8	14.0	8.3
AUG.												
09...	.6	.1	.06	.00	19	8	0	.3	19	7.5	13.5	8.5
SEP.												
12...	.9	.1	.12	.00	20	7	0	.2	21	7.5	12.5	8.6

06723400 SOUTH ST. VRAIN CREEK ABOVE LYONS, COLO.

LOCATION.--Lat 40°13'02", long 105°16'26", in NE¼NW¼ sec.19, T.3 N., R.70 W., Boulder County, at bridge on county road 250 ft (76 m) south of State Highway 7 and 0.2 mi (0.3 km) southwest of Lyons.

DRAINAGE AREA.--81.4 mi^2 (210.8 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1971 to September 1974.

REMARKS.--Records of discharges are estimated values.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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., 1973												
10...	E8.0	7.1	40	20	7.2	1.5	5.5	.5	32	0	26	5.0
NOV.												
05...	E4.0	7.9	40	--	7.4	1.5	3.9	.5	29	0	24	8.1
DEC.												
05...	E2.0	8.0	10	0	9.2	1.8	4.0	.6	37	0	30	6.6
JAN., 1974												
08...	E2.0	10	30	0	7.3	1.7	3.3	.5	32	0	26	5.3
FEB.												
21...	E4.0	9.7	60	0	7.3	1.7	3.7	.7	30	0	25	2.5
MAR.												
18...	E8.0	9.6	60	0	8.2	1.6	3.8	.6	28	0	23	5.4
APR.												
16...	E10	9.6	40	10	8.5	1.8	4.2	.5	29	0	24	5.6
MAY												
10...	E35	6.9	80	0	4.8	1.0	3.1	.5	16	0	13	5.0
JUNE												
19...	E125	3.1	80	0	4.2	.5	1.9	.7	11	0	9	2.4
JULY												
24...	E70	5.1	50	0	3.8	.7	1.6	.4	15	0	12	4.7
AUG.												
09...	E30	5.6	30	0	4.5	1.1	1.8	.3	22	--	18	3.2
SEP.												
12...	E10	6.3	40	0	6.8	1.1	2.4	.6	26	--	21	3.7

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT., 1973												
10...	.6	.2	.01	.02	44	24	0	.5	66	7.7	6.0	10.0
NOV.												
05...	1.3	.0	.13	.03	46	25	1	.3	62	7.7	3.5	10.2
DEC.												
05...	1.9	.1	.17	.02	51	30	0	.3	75	7.8	1.0	11.0
JAN., 1974												
08...	1.9	.2	.18	.01	47	25	0	.3	62	7.4	.0	10.8
FEB.												
21...	1.3	.2	.11	.02	43	25	1	.3	65	7.7	1.0	11.4
MAR.												
18...	1.5	.3	.24	.02	46	27	4	.3	68	7.3	6.5	10.0
APR.												
16...	2.1	.2	.16	.00	48	29	5	.3	75	7.5	3.0	11.0
MAY												
10...	1.4	.2	.07	.01	31	16	3	.3	37	7.2	8.5	9.3
JUNE												
19...	1.3	.2	.36	.01	21	13	4	.2	25	7.9	10.0	9.0
JULY												
24...	1.9	.1	.11	.01	26	12	0	.2	29	7.4	16.0	8.4
AUG.												
09...	.2	.1	.03	.00	28	16	0	.2	37	7.6	13.5	8.8
SEP.												
12...	.9	.1	.14	.00	35	22	0	.2	53	7.3	11.0	9.2

06724600 LEFT HAND CREEK AT ALTONA, COLO.

LOCATION.--Lat 40°07'57", long 105°17'24", in SW¼SE¼ sec.13, T.2 N., R.71 W., Boulder County, on left bank beside State Highway 160, 0.5 mi (0.8 km) west of intersection of State Highway 160 and U.S. Highway 36 in Altona.

DRAINAGE AREA.--59.0 mi² (152.8 km²).

PERIOD OF RECORD.--Chemical analyses: October 1971 to September 1974.

REMARKS.--Records of discharges are estimated values.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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., 1973												
10...	E4.0	8.8	100	170	15	4.2	8.7	1.1	30	0	25	42
NOV.												
05...	E3.0	9.7	60	60	18	4.9	6.6	1.2	41	0	34	45
DEC.												
05...	E5.0	11	20	20	19	4.9	7.6	2.1	37	0	30	47
JAN., 1974												
08...	E2.0	12	20	30	17	4.6	6.7	.9	38	0	31	43
FEB.												
21...	E3.0	12	80	63	25	6.8	9.1	1.4	41	0	34	59
MAR.												
18...	E4.0	11	60	0	20	5.3	7.0	1.2	35	0	29	51
APR.												
16...	E3.0	11	80	80	20	5.6	6.4	1.2	40	0	33	43
MAY												
10...	E20	9.3	100	0	8.7	2.2	2.8	.8	20	0	16	15
JUNE												
19...	E30	4.2	70	0	4.5	1.0	1.8	.4	13	0	11	7.5
JULY												
24...	E20	5.3	60	0	6.5	1.0	1.7	.4	13	0	11	7.8
AUG.												
09...	E12	6.1	50	0	6.5	1.5	3.2	.5	17	--	14	11
SEP.												
12...	E3.0	6.6	70	0	8.8	2.2	3.1	.6	22	--	18	18

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT., 1973												
10...	1.0	1.5	.03	.02	98	55	30	.5	170	7.6	5.0	10.2
NOV.												
05...	1.5	.9	.11	.04	109	65	32	.4	172	7.5	.5	10.5
DEC.												
05...	1.8	1.1	.24	.03	114	68	37	.4	189	7.2	.0	11.4
JAN., 1974												
08...	2.9	.9	.18	.02	108	61	30	.4	170	7.2	.0	10.5
FEB.												
21...	1.4	.8	.15	.03	137	90	57	.4	239	7.6	.0	11.2
MAR.												
18...	1.5	1.2	.08	.00	116	72	43	.4	192	7.4	5.0	9.8
APR.												
16...	1.8	1.3	.18	.01	111	73	40	.3	192	7.4	1.0	11.4
MAY												
10...	1.3	.6	.05	.01	51	31	14	.2	74	7.2	7.0	9.2
JUNE												
19...	.8	.5	.03	.01	27	15	5	.2	39	7.5	11.0	8.6
JULY												
24...	1.0	.3	.08	.01	31	20	10	.2	38	7.3	18.0	7.9
AUG.												
09...	.2	.8	.01	.00	38	22	8	.3	54	7.8	11.0	8.8
SEP.												
12...	.8	.5	.05	.00	52	31	13	.2	83	7.3	8.0	9.8

06731000 ST. VRAIN CREEK AT MOUTH, NEAR PLATTEVILLE, COLO.

LOCATION.--Lat 40°15'29", long 104°52'45", in SE¼NW¼ sec.3, T.3 N., R.67 W., Weld County, at gaging station, on right bank 140 ft (43 m) downstream from bridge on county road, 1.3 mi (2.1 km) upstream from mouth, and 4.2 mi (6.8 km) northwest of Platteville.

DRAINAGE AREA.--976 mi² (2,528 km²).

PERIOD OF RECORD.--Chemical analyses: February 1955 to August 1956, September 1965 to September 1968, October 1970 to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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., 1973												
11...	186	9.0	120	70	110	85	130	4.8	299	0	245	580
NOV.												
05...	183	9.6	60	210	100	74	120	7.3	289	0	237	490
DEC.												
04...	161	8.6	40	130	100	74	120	5.0	293	0	240	500
JAN., 1974												
07...	145	11	40	460	110	84	130	5.4	323	0	265	530
FEB.												
28...	218	8.7	80	200	82	59	100	5.3	238	0	195	430
MAR.												
18...	155	7.1	40	230	110	90	150	7.5	313	0	257	650
APR.												
18...	150	6.8	30	150	94	68	120	5.0	266	0	218	490
MAY												
02...	192	6.6	140	210	76	57	94	5.5	220	0	180	380
JUNE												
18...	412	8.0	50	70	56	34	55	3.5	152	0	125	240
JULY												
11...	180	10	80	60	110	75	120	6.7	288	0	236	540
AUG.												
08...	192	9.6	730	70	110	86	140	5.8	288	--	236	620
SEP.												
11...	164	9.6	40	100	110	72	130	5.3	308	--	253	480

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT., 1973												
11...	26	1.2	2.5	.32	1110	620	380	2.3	1580	8.0	10.0	10.7
NOV.												
05...	33	.9	2.1	.36	988	550	320	2.2	1410	7.9	6.0	9.8
DEC.												
04...	31	1.0	4.5	.45	1010	550	310	2.2	1450	7.8	3.5	10.4
JAN., 1974												
07...	26	1.1	4.9	.34	1080	620	360	2.3	1500	7.5	--	--
FEB.												
28...	29	1.0	2.1	.39	843	450	250	2.1	1250	7.5	4.0	8.8
MAR.												
18...	41	1.0	4.3	.49	1230	650	390	2.6	1710	7.9	7.5	8.2
APR.												
18...	29	1.1	3.2	.44	961	510	300	2.3	1390	7.7	13.0	8.1
MAY												
02...	25	1.1	2.0	.14	763	420	240	2.0	1140	7.4	17.0	7.5
JUNE												
18...	12	.7	1.6	.11	492	280	160	1.4	772	7.6	21.0	6.5
JULY												
11...	27	1.0	2.6	.18	1040	580	350	2.2	1490	7.9	21.0	7.3
AUG.												
08...	29	1.1	2.7	.14	1160	630	390	2.4	1475	7.5	21.0	8.2
SEP.												
11...	31	1.1	2.4	.13	1000	570	320	2.4	1550	7.6	16.0	8.3

06734900 OLYMPUS TUNNEL AT LAKE ESTES, COLO.

LOCATION.--Lat 40°22'30", long 105°29'13", in SE¼NW¼ sec.29, T.5 N., R.72 W., Larimer County, at tunnel entrance at south end of Olympus Dam on Lake Estes, 1.9 mi (3.0 km) east of Estes Park.

PERIOD OF RECORD.--Chemical analyses: September 1970 to September 1974.

REMARKS.--Tunnel is part of Colorado-Big Thompson project. Field data collected prior to the 1974 water year are available in the district office.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	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. PER 100 ML)
OCT., 1973							
18...	200	60	7.5	8.0	7.8	12	1
NOV.							
16...	200	<50	7.7	3.0	8.7	28	0
DEC.							
06...	250	<50	7.4	.0	9.1	7	0
JAN., 1974							
08...	500	<50	--	1.0	8.8	9	4
FEB.							
25...	500	70	7.5	1.0	9.1	3	0
MAR.							
22...	500	60	7.3	1.0	9.9	0	0
APR.							
16...	450	80	8.0	5.0	10.8	3	0
MAY							
09...	250	50	7.3	7.5	8.1	65	7
JUNE							
19...	500	<50	6.9	10.0	8.7	53	9
JULY							
25...	250	<50	8.3	16.0	7.4	131	8
AUG.							
09...	500	<50	7.2	15.0	7.9	245	4
SEP.							
12...	500	55	7.4	13.0	7.4	17	1

06736700 BIG THOMPSON RIVER ABOVE DILLE TUNNEL, NEAR DRAKE, COLO.

LOCATION.--Lat 40°25'06", long 105°14'36", in NE¼NW¼ sec.9, T.5 N., R.70 W., Larimer County, 100 ft (30 m) upstream from diversion dam at entrance to Dille Tunnel, 5.2 mi (8.4 km) east of Drake.

DRAINAGE AREA.--304 mi^2 (787 km^2).

PERIOD OF RECORD.--Chemical analyses: September 1970 to September 1974.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	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. PER 100 ML)
OCT., 1973							
18...	E50	60	7.5	6.0	9.5	63	12
NOV.							
16...	E35	<50	7.6	.5	10.3	13	0
DEC.							
06...	E30	60	7.5	.0	11.6	56	1
JAN., 1974							
08...	E20	55	7.1	.0	10.6	3	0
FEB.							
25...	E30	55	7.4	.0	11.2	3	0
MAR.							
22...	E25	60	6.9	.0	11.2	5	2
APR.							
16...	E25	85	7.5	10.0	9.6	2	0
MAY							
09...	E150	<50	7.1	12.5	8.2	30	5
JUNE							
19...	E350	<50	7.1	14.5	8.5	110	13
JULY							
25...	E150	<50	8.9	16.5	7.9	77	22
AUG.							
09...	E125	<50	7.2	14.0	8.3	>750	>750
SEP.							
12...	E100	55	7.4	8.5	9.3	165	58

06737500 HORSETOOTH RESERVOIR NEAR FORT COLLINS, COLO.

LOCATION.--Lat 40°36'00", long 105°10'06", in NW¼SW¼ sec.6, T.7 N., R.69 W., Larimer County, on tributaries of Cache la Poudre River, 4.8 mi (7.7 km) west of city hall in Fort Collins.

PERIOD OF RECORD.--Chemical analyses: September 1969 to September 1974.

REMARKS.--Samples collected from surface, middle, and bottom depths in middle of reservoir at Soldier Canyon Dam. Reservoir storage represents usable contents.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DEPTH (FT)	RESERVOIR STORAGE (AC-FT)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
OCT., 1973								
25...	2.0	87500	.07	.01	.08	.04	.39	45
25...	50	87500	.07	.01	.08	.05	.11	45
25...	100	87500	.17	.00	.17	.05	.08	58
NOV.								
26...	2.0	90050	.13	.00	.13	.08	.00	42
26...	45	90050	.14	.00	.14	.08	.10	39
26...	90	90050	.10	.01	.11	.08	.13	43
MAR., 1974								
27...	2.0	118900	.08	.00	.08	.16	.26	50
27...	50	118900	.08	.00	.08	.12	.11	51
27...	100	118900	.08	.00	.08	.11	.02	48
APR.								
20...	2.0	123300	.07	.00	.07	.16	.01	41
20...	40	123300	.07	.00	.07	.14	.01	40
20...	100	123300	.08	.00	.08	.16	.03	40
MAY								
18...	2.0	130300	.04	.01	.05	.10	--	39
18...	50	130300	.08	.00	.08	.03	--	37
18...	100	130300	.07	.00	.07	.08	.02	35
JUNE								
22...	2.0	139000	.11	.01	.12	.06	.14	41
22...	40	139000	.08	.00	.08	.06	.02	45
22...	100	139000	.03	.00	.03	.07	.02	37
JULY								
20...	2.0	115900	.07	.00	.07	.02	.35	51
20...	30	115900	.05	.00	.05	.03	.06	48
20...	100	115900	.13	.00	.13	.03	.04	49
AUG.								
17...	2.0	77500	.01	.00	.01	.07	.03	41
17...	40	77500	.09	.00	.09	.05	.02	41
17...	80	77500	.12	.00	.12	.03	1.1	39
SEP.								
14...	2.0	57000	.06	.01	.07	.04	.08	47
14...	50	57000	.06	.00	.06	.05	.55	41
14...	90	57000	.12	.00	.12	.03	1.3	37

06737500 HORSETOOTH RESERVOIR NEAR FORT COLLINS, COLO.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	SPECIFIC CONDUCTANCE (MICROMHOS) (95)	PH (UNITS) (400)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (IN) (77)	DISSOLVED OXYGEN (MG/L) (300)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)
OCT., 1973							
25...	75	6.5	12.0	63	7.3	30	1
25...	70	6.3	12.0	--	7.3	49	1
25...	70	6.3	9.5	--	5.1	44	0
NOV.							
26...	70	6.9	7.0	--	8.4	0	0
26...	70	6.8	7.0	--	8.1	3	0
26...	70	6.8	7.0	--	8.1	3	0
MAR., 1974							
27...	75	6.8	5.0	73	10.5	0	0
27...	70	6.9	3.5	--	10.6	0	0
27...	70	7.0	3.0	--	10.4	0	0
APR.							
20...	69	7.4	7.0	64	10.6	0	0
20...	69	7.3	5.0	--	--	0	0
20...	71	7.2	4.5	--	--	0	0
MAY							
18...	70	6.9	12.0	79	8.8	0	0
18...	70	6.7	7.5	--	9.0	1	0
18...	70	6.5	6.0	--	9.2	1	0
JUNE							
22...	70	7.5	19.0	96	8.0	--	--
22...	68	7.0	12.0	--	7.8	--	--
22...	65	7.0	8.0	--	8.2	--	--
JULY							
20...	68	6.8	23.0	54	8.4	4	0
20...	66	6.8	16.0	--	6.8	125	0
20...	70	7.1	8.0	--	8.5	27	0
AUG.							
17...	56	7.0	21.0	47	7.0	15	0
17...	59	6.5	16.0	--	4.8	5	1
17...	72	6.5	10.0	--	6.2	10	0
SEP.							
14...	62	6.8	17.0	55	6.8	15	1
14...	71	6.6	16.0	--	6.4	10	0
14...	74	6.7	9.0	--	5.3	40	0

06742500 CARTER LAKE NEAR BERTHOUD, COLO.

LOCATION.--Lat 40°19'28", long 105°12'41", in SE¼ sec.10, T.4 N., R.70 W., Larimer County, on Dry Creek, 7.0 mi (11.3 km) west of Berthoud, and 8.9 mi (14.3 km) upstream from mouth.

PERIOD OF RECORD.--Chemical analyses: February 1970 to September 1974.

REMARKS.--Samples collected at surface, middle, and bottom depths near the center of the reservoir. Reservoir storage represents usable contents.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DEPTH (FT)	RESERVOIR STORAGE (AC-FT)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
OCT., 1973								
25...	2.0	51280	.00	.00	.00	.04	1.3	54
25...	40	51280	.00	.00	.00	.02	.08	55
25...	90	51280	.02	.01	.03	.03	.06	51
NOV.								
26...	2.0	56940	.06	.01	.07	.06	.00	43
26...	40	56940	.03	.01	.04	.07	.00	41
26...	80	56940	.02	.01	.03	.07	.00	49
MAR., 1974								
27...	2.0	100700	.02	.00	.02	.14	.01	54
27...	50	100700	.01	.00	.01	.20	.01	52
27...	100	100700	.02	.00	.02	.09	.01	49
APR.								
20...	2.0	102500	.05	.00	.05	.40	.01	52
20...	50	102500	.03	.00	.03	.06	.01	45
20...	100	102500	.03	.00	.03	.14	.00	44
MAY								
18...	2.0	108200	.05	.00	.05	.02	.02	59
18...	50	108200	.01	.00	.01	.03	.21	53
18...	110	108200	.00	.02	.02	.04	.02	56
JUNE								
22...	2.0	104300	.03	.01	.04	--	--	44
22...	50	104300	.09	.01	.10	--	--	43
22...	100	104300	.02	.01	.03	.04	.73	43
JULY								
20...	2.0	94900	.10	.00	.10	.08	.36	43
20...	40	94900	.01	.00	.01	.13	.05	39
20...	100	94900	.02	.00	.02	.09	.04	53
AUG.								
17...	2.0	71100	.02	.00	.02	.08	.65	46
17...	40	71100	.01	.00	.01	.07	.02	37
17...	80	71100	.02	.00	.02	.07	.02	39
SEP.								
14...	2.0	49700	.01	.00	.01	.03	1.8	52
14...	40	49700	.00	.00	.00	.03	.70	53
14...	75	49700	.06	.00	.06	.03	.03	42

06742500 CARTER LAKE NEAR BERTHOUD, COLO.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (IN)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT., 1973							
25...	95	6.6	12.0	67	8.1	1	1
25...	90	6.8	11.0	--	7.4	4	2
25...	85	6.8	7.5	--	4.5	2	1
NOV.							
26...	80	7.0	6.5	--	9.0	0	0
26...	80	6.9	6.0	--	8.8	0	0
26...	80	6.9	6.0	--	8.8	1	0
MAR., 1974							
27...	85	7.4	2.5	96	11.8	0	0
27...	80	7.5	2.5	--	11.0	0	0
27...	80	7.5	2.5	--	10.6	0	0
APR.							
20...	82	7.2	5.5	144	10.6	0	0
20...	82	6.7	4.0	--	--	0	0
20...	82	7.2	3.5	--	--	0	0
MAY							
18...	82	7.0	11.5	144	8.8	0	0
18...	80	6.8	6.0	--	9.4	2	0
18...	80	6.6	4.5	--	9.6	1	0
JUNE							
22...	87	6.8	17.5	162	7.9	--	--
22...	84	6.5	9.0	--	8.4	--	--
22...	79	6.5	6.0	--	8.6	--	--
JULY							
20...	90	6.7	21.5	170	6.8	400	0
20...	76	6.8	9.0	--	7.7	150	0
20...	74	7.0	7.5	--	7.2	1	0
AUG.							
17...	71	6.8	19.0	88	7.8	2	0
17...	79	6.9	10.0	--	7.8	9	0
17...	72	7.0	7.5	--	7.6	16	0
SEP.							
14...	97	6.7	15.5	84	7.2	12	0
14...	90	6.5	15.0	--	6.8	7	0
14...	74	6.6	8.0	--	6.4	20	0

06744000 BIG THOMPSON RIVER AT MOUTH, NEAR LASALLE, COLO.

LOCATION.--Lat 40°21'00", long 104°47'04", in SW¼SE¼ sec.33, T.5 N., R.66 W., Weld County, at gaging station, on left bank just southeast of gage on Evans Town ditch, 0.7 mi (1.1 km) upstream from highway bridge, 1.6 mi (2.6 km) upstream from mouth, and 4.2 mi (6.8 km) west of LaSalle.

DRAINAGE AREA.--828 mi² (2,145 km²).

PERIOD OF RECORD.--Chemical analyses: August 1954 to July 1956, October 1967 to September 1968, October 1970 to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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., 1973												
11...	91	9.6	250	130	190	130	180	6.1	366	0	300	1000
NOV.												
05...	112	9.5	40	110	170	110	150	9.0	345	0	283	840
DEC.												
04...	149	6.5	460	130	140	88	120	5.2	286	0	235	690
JAN., 1974												
07...	64	11	40	230	200	130	170	7.0	410	0	336	930
FEB.												
28...	74	7.6	50	320	200	140	180	8.1	394	0	323	1100
MAR.												
18...	66	8.1	80	160	200	140	180	8.3	387	0	317	1000
APR.												
18...	66	8.6	40	90	190	130	190	5.8	359	0	294	1100
MAY												
02...	157	9.0	30	170	80	49	68	3.2	167	0	137	400
JUNE												
18...	507	6.2	80	20	32	17	24	1.8	80	0	66	120
JULY												
11...	56	11	220	100	160	100	150	7.2	309	0	253	840
AUG.												
08...	98	8.9	20	20	140	95	140	5.9	271	--	222	720
SEP.												
11...	66	9.0	80	60	160	93	140	5.0	336	--	276	730

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT., 1973												
11...	23	1.1	3.0	.24	1730	1000	710	2.5	2310	7.8	7.0	9.6
NOV.												
05...	23	.9	2.4	.23	1490	880	590	2.2	2060	8.0	6.5	10.0
DEC.												
04...	16	.9	2.9	.20	1220	710	480	2.0	1640	7.7	4.0	10.4
JAN., 1974												
07...	25	1.3	4.8	.24	1700	1000	700	2.3	2260	7.6	.0	8.4
FEB.												
28...	25	1.1	1.7	.12	1860	1100	750	2.4	2290	7.8	4.0	9.8
MAR.												
18...	27	1.0	2.9	.44	1770	1100	760	2.4	2300	7.9	8.0	9.2
APR.												
18...	24	1.1	3.2	.46	1840	1000	720	2.6	2360	7.9	11.5	8.4
MAY												
02...	9.5	.6	1.3	.11	708	400	260	1.5	999	7.4	14.0	7.7
JUNE												
18...	3.1	.3	.54	.03	246	150	84	.9	460	7.8	18.5	7.3
JULY												
11...	22	.9	2.3	.12	1450	810	560	2.3	1960	7.6	20.0	7.4
AUG.												
08...	22	.8	2.2	.19	1280	740	520	2.2	1550	7.3	18.5	7.0
SEP.												
11...	21	1.0	2.0	.11	1330	780	510	2.2	1930	7.9	15.5	8.2

06747500 CACHE LA POUDRE RIVER NEAR RUSTIC, COLO.

LOCATION.--Lat 40°41'59", long 105°39'51", NE¼SE¼ sec.34, T.9 N., R.74 W., Larimer County, on left bank 100 ft (30 m) south of State Highway 14, 1.9 mi (3.1 km) downstream from discontinued gaging station, 4.3 mi (6.9 km) west of Rustic, 10.4 mi (16.7 km) downstream from outlet of Larimer-Poudre Tunnel, and 32 mi (52 km) west of Fort Collins.

DRAINAGE AREA.--199 mi² (515 km²), at gaging station.

PERIOD OF RECORD.--Chemical analyses: October 1971 to September 1974.

REMARKS.--Records of discharge are estimated values.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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., 1973												
10...	E100	10	110	20	5.0	1.2	3.0	1.1	27	0	22	3.0
NOV.												
06...	E60	11	60	0	6.2	2.0	2.9	.9	29	0	24	3.3
DEC.												
05...	E35	13	80	0	7.6	2.5	6.3	1.2	39	0	32	5.6
JAN., 1974												
07...	E30	13	50	0	7.6	2.1	4.6	1.1	39	0	32	3.7
FEB.												
22...	E30	13	70	0	8.3	2.7	4.3	1.3	44	0	36	4.7
MAR.												
25...	E30	11	310	7	8.2	2.4	4.1	2.5	40	0	33	3.9
APR.												
20...	E50	12	70	20	7.1	2.0	3.7	1.1	33	0	27	3.8
MAY												
11...	E250	7.5	220	0	4.1	.8	2.0	.8	16	0	13	4.1
JUNE												
14...	E1500	7.2	130	0	4.5	.6	1.9	.8	14	--	11	3.5
JULY												
21...	E150	6.9	80	10	4.4	.8	1.7	.6	16	--	13	3.6
AUG.												
20...	E75	8.6	50	3700	4.9	1.5	6.2	.8	22	--	18	2.9
SEP.												
22...	E50	9.6	180	0	7.7	1.0	1.8	.4	22	--	18	3.0

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT., 1973												
10...	.7	.2	.06	.04	38	17	0	.3	51	7.8	5.0	9.7
NOV.												
06...	2.3	.2	.05	.02	43	24	0	.3	57	7.7	.0	10.7
DEC.												
05...	1.0	.1	.13	.03	57	29	0	.5	74	7.9	.0	10.8
JAN., 1974												
07...	1.8	.2	.08	.02	54	28	0	.4	71	7.3	.0	10.2
FEB.												
22...	2.0	.4	.03	.00	59	32	0	.3	90	7.7	.0	10.8
MAR.												
25...	1.6	.3	.08	.01	54	30	0	.3	77	7.2	.0	11.3
APR.												
20...	1.0	.5	.00	.02	48	26	0	.3	71	8.2	10.0	8.2
MAY												
11...	1.1	.2	.03	.01	29	14	0	.2	33	7.1	2.0	10.0
JUNE												
14...	.9	.1	.08	.01	27	14	2	.2	26	6.8	7.0	9.2
JULY												
21...	.8	.1	.00	.00	27	14	1	.2	31	6.9	12.0	8.2
AUG.												
20...	.3	.1	.03	.01	40	18	0	.6	38	7.4	11.0	8.0
SEP.												
22...	1.7	.1	.00	.00	36	23	5	.2	41	7.1	7.5	8.2

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

LOCATION.--Lat 40°39'52", long 105°13'26", in NW¼ sec.15, T.8 N., R.70 W., Larimer County, at gaging station, on left bank at mouth of canyon, 0.5 mi (0.8 km) downstream from headgate of Poudre Valley Canal, 1.2 mi (1.9 km) upstream from Lewstone Creek, and 9.3 mi (15.0 km) northwest of courthouse in Fort Collins.

DRAINAGE AREA.--1,055 mi^2 (2,732 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1971 to September 1974.
Sediment records: June 1962 to October 1965.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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., 1973												
10...	90	10	70	20	9.6	2.3	4.1	1.0	46	0	38	4.1
NOV.												
06...	244	11	60	10	15	3.9	5.5	1.1	69	0	57	5.4
DEC.												
05...	55	12	70	10	15	4.5	6.7	1.3	72	0	59	7.1
JAN., 1974												
07...	40	13	30	0	18	4.9	8.1	1.2	83	0	68	6.6
FEB.												
22...	63	12	50	0	28	7.6	9.7	1.3	128	0	105	10
MAR.												
25...	122	12	50	29	19	4.5	6.5	1.2	79	0	65	7.6
APR.												
20...	94	13	60	20	11	2.9	5.0	1.1	46	0	38	6.9
MAY												
11...	1470	9.7	160	0	8.9	1.9	3.6	1.0	34	0	28	5.8
JUNE												
14...	2160	7.2	120	0	4.1	.6	2.0	.6	14	--	11	3.5
JULY												
17...	760	7.1	160	10	7.8	1.1	2.2	.6	20	0	16	4.6
AUG.												
20...	816	13	150	50	15	3.2	4.6	1.0	62	--	51	5.3
SEP.												
22...	46	9.5	240	0	7.2	1.7	2.1	.6	26	--	21	3.7

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT., 1973												
10...	.9	.4	.00	.03	55	33	0	.3	87	7.8	8.0	9.9
NOV.												
06...	3.3	.4	.01	.00	80	54	0	.3	130	8.0	2.0	11.1
DEC.												
05...	2.0	.4	.08	.02	85	56	0	.4	134	7.8	.0	11.6
JAN., 1974												
07...	3.4	.4	.12	.02	97	65	0	.4	150	7.8	.0	11.4
FEB.												
22...	6.7	.8	.06	.00	140	100	0	.4	254	7.9	.0	11.2
MAR.												
25...	3.8	.7	.32	.02	96	66	1	.3	156	7.5	2.0	10.8
APR.												
20...	1.7	.5	.02	.02	65	39	2	.3	103	7.9	12.0	9.6
MAY												
11...	1.8	.4	.03	.01	50	30	2	.3	70	7.4	7.0	11.2
JUNE												
14...	.9	.1	.04	.01	26	13	1	.2	27	6.8	10.5	9.2
JULY												
17...	2.6	.1	.06	.00	36	24	8	.2	40	7.3	18.0	7.1
AUG.												
20...	.8	.4	.13	.02	75	51	0	.3	114	7.3	13.0	8.6
SEP.												
22...	1.7	.1	.01	.00	40	25	4	.2	50	6.9	11.0	9.2

06752500 CACHE LA POUDRE RIVER NEAR GREELEY, COLO.

LOCATION.--Lat 40°25'04", long 104°38'22", in NW¼ sec.11, T.5 N., R.65 W., Weld County, at gaging station, on right bank 25 ft (8 m) downstream from highway bridge, 2.9 mi (4.7 km) east of court house in Greeley, and 3.0 mi (4.8 km) upstream from mouth.

DRAINAGE AREA.--1,877 mi² (4,861 km²).

PERIOD OF RECORD.--Chemical analyses: November 1951 to September 1952, August 1954 to August 1956, December 1963 to September 1966, October 1967 to September 1968, October 1970 to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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., 1973												
11...	125	11	90	160	150	77	110	6.0	304	0	249	590
NOV.												
05...	215	13	60	220	140	64	89	6.3	293	0	240	470
DEC.												
04...	204	11	80	100	120	58	89	5.8	284	0	233	420
JAN., 1974												
07...	112	16	30	170	150	73	100	6.6	343	0	281	500
FEB.												
28...	161	11	80	--	130	62	86	6.7	280	0	230	470
MAR.												
18...	117	9.2	30	110	140	71	98	7.0	298	0	244	520
APR.												
18...	120	9.6	40	1500	170	97	130	6.4	317	0	260	750
MAY												
02...	41	14	220	450	190	82	130	8.6	388	0	318	690
JUNE												
18...	1840	8.3	100	10	25	9.7	14	1.8	63	0	52	72
JULY												
11...	76	12	410	120	150	70	100	8.5	283	0	232	550
AUG.												
08...	57	14	30	270	170	81	120	7.3	328	--	269	640
SEP.												
11...	64	13	40	200	180	90	130	8.0	357	--	293	690

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT., 1973												
11...	38	1.1	3.8	.45	1150	690	440	1.8	1600	7.5	8.0	8.5
NOV.												
05...	29	.8	3.3	.69	974	610	370	1.6	1370	7.8	7.0	9.1
DEC.												
04...	41	.8	5.5	.84	913	540	310	1.7	1310	7.6	4.0	10.8
JAN., 1974												
07...	33	1.0	4.5	1.1	1070	680	390	1.7	1490	7.8	1.5	10.4
FEB.												
28...	28	.9	2.9	.89	948	580	350	1.6	1360	7.7	3.0	9.4
MAR.												
18...	30	.9	6.7	1.1	1060	640	400	1.7	1500	7.9	9.0	10.2
APR.												
18...	37	1.1	4.1	.83	1380	820	560	2.0	1900	7.8	10.0	8.9
MAY												
02...	47	1.1	6.9	.84	1390	810	490	2.0	1860	7.6	13.0	9.2
JUNE												
18...	3.9	.3	.55	.10	169	100	51	.6	277	7.9	17.0	8.2
JULY												
11...	31	.7	4.3	.55	1080	660	430	1.7	1510	7.6	22.5	8.3
AUG.												
08...	48	.7	5.0	.45	1270	760	490	1.9	1550	7.3	18.0	9.5
SEP.												
11...	42	.9	4.9	.53	1350	820	530	2.0	1880	6.5	16.0	10.7

06758500 SOUTH PLATTE RIVER NEAR WELDONA, COLO.

LOCATION.--Lat 40°19'19", long 103°55'17", in SW¼SW¼ sec.7, T.4 N., R.58 W., Morgan County, at gaging station, on left bank 400 ft (120 m) downstream from bridge on State Highway 144, 2.8 mi (4.5 km) southeast of Weldona, and 4.2 mi (6.8 km) upstream from Bijou Creek.

DRAINAGE AREA.--13,245 mi^2 (34,305 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1967 to September 1968, October 1971 to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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., 1973												
11...	1400	15	260	80	140	62	150	6.6	294	0	241	530
NOV.												
29...	765	15	80	60	150	67	150	7.1	312	0	256	570
DEC.												
04...	546	16	30	60	150	66	150	7.4	319	0	262	590
JAN., 1974												
24...	1080	15	40	90	140	59	150	7.7	310	0	254	530
FEB.												
28...	649	15	20	80	140	60	150	7.9	301	0	247	540
MAR.												
30...	621	15	20	--	140	54	140	8.2	283	0	232	530
APR.												
17...	1390	15	40	40	110	45	120	6.6	232	0	190	420
MAY												
02...	1320	14	20	10	92	38	100	5.9	205	0	168	350
JUNE												
26...	383	15	20	40	140	61	120	7.8	266	0	218	540
JULY												
31...	320	17	100	60	160	72	160	9.0	328	0	269	640
AUG.												
28...	458	23	40	80	140	78	170	7.8	271	0	222	650
SEP.												
23...	691	14	80	10	140	75	160	9.0	289	--	237	560

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT., 1973												
11...	67	.9	4.9	.61	1140	610	360	2.7	1640	8.0	6.0	10.5
NOV.												
29...	61	1.0	4.8	.54	1200	650	390	2.6	1660	8.0	1.5	10.4
DEC.												
04...	65	1.0	4.9	.54	1230	650	380	2.6	1700	8.0	1.5	11.4
JAN., 1974												
24...	71	1.2	3.5	.69	1140	590	340	2.7	1590	7.8	.0	10.6
FEB.												
28...	72	1.2	4.6	.72	1160	600	350	2.7	1620	7.8	3.0	9.4
MAR.												
30...	66	1.0	4.6	.81	1120	570	340	2.5	1550	7.9	7.5	9.5
APR.												
17...	56	1.3	5.7	.77	916	460	270	2.4	1360	7.7	16.0	8.3
MAY												
02...	48	1.1	3.8	.68	769	390	220	2.2	1150	7.6	13.5	7.9
JUNE												
26...	49	1.0	3.3	.26	1080	600	380	2.1	1550	8.0	28.0	8.3
JULY												
31...	61	1.1	3.6	.20	1300	700	430	2.6	1850	8.2	20.0	8.3
AUG.												
28...	72	1.6	2.2	.05	1290	670	450	2.9	1830	7.9	22.0	9.8
SEP.												
23...	65	1.1	.32	.20	1170	660	420	2.7	1820	8.0	19.0	--

06764000 SOUTH PLATTE RIVER AT JULESBURG, COLO.
(Irrigation network station)
(National stream-quality accounting network station)

LOCATION.--Lat 40°58'46", long 102°15'15", in NW¼NE¼ and SE¼NE¼ (two channels) sec.33, T.12 N., R.44 W., Sedgwick County, at gaging station, at bridge on U.S. Highway 385, 0.9 mi (1.4 km) southeast of Julesburg, 3.0 mi or 4.8 km (revised) upstream from Colorado-Nebraska State line, and 8 mi (13 km) downstream from Lodgepole Creek.

DRAINAGE AREA.--23,138 mi^2 (59,927 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1945 to September 1974.
Water temperatures: October 1945 to September 1974.

EXTREMES, 1973-74.--Specific conductance: Maximum daily, 2,290 micromhos Apr. 14; minimum daily, 1,010 micromhos Mar. 9.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SDLVED SODIUM (NA) (MG/L)	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., 1973										
17...	1520	18	150	60	170	12	300	0	246	600
NOV.										
28...	1040	20	180	64	170	12	314	0	258	670
DEC.										
17...	517	24	200	63	180	15	320	0	262	750
JAN., 1974										
23...	1910	17	140	50	150	9.5	275	0	226	540
FEB.										
27...	1060	19	170	61	170	11	308	0	253	660
MAR.										
29...	775	19	170	55	160	11	298	--	244	650
APR.										
17...	1410	18	160	56	160	9.9	287	0	235	610
MAY										
01...	365	21	180	57	170	12	303	0	249	650
JUNE										
27...	34	26	200	56	170	16	321	0	263	690
JULY										
30...	31	26	190	61	180	19	235	0	193	710
AUG.										
29...	25	15	210	57	180	17	293	0	240	770
SEP.										
24...	264	15	160	65	190	14	256	--	210	690

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (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 SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT., 1973										
17...	73	.9	3.0	1.5	4.5	.47	1350	1230	620	380
NOV.										
28...	72	.9	3.4	1.1	4.5	.48	1400	1340	710	460
DEC.										
17...	79	.8	.65	.86	1.5	.26	1540	1470	760	500
JAN., 1974										
23...	77	.9	2.7	2.2	4.9	.67	1150	1120	560	330
FEB.										
27...	80	1.0	3.6	1.2	4.8	.75	1380	1320	680	420
MAR.										
29...	80	1.0	3.3	1.5	4.8	.76	1350	1290	650	410
APR.										
17...	73	1.0	3.4	1.7	5.1	.86	1290	1230	630	390
MAY										
01...	74	.8	2.1	.68	2.8	.45	1370	1310	680	440
JUNE										
27...	84	.8	.39	.56	.95	.09	1460	1400	730	470
JULY										
30...	88	.5	.07	.60	.67	.03	1490	1390	730	530
AUG.										
29...	93	.6	.13	.59	.72	.01	1570	1490	760	520
SEP.										
24...	83	.9	.67	1.6	2.3	.18	1480	1340	670	460

06764000 SOUTH PLATTE RIVER AT JULESBURG, COLO.--Continued

EXTREMES, 1973-74.--Continued.
Water temperatures: Maximum, 34.5°C July 8, 17; minimum, freezing point on many days during November to February.
Period of record.--Specific conductance: Maximum daily, 3,270 micromhos Jan. 12, 1971; minimum daily, 348 micromhos Aug. 15, 1968.
Water temperatures (1946-49, 1950-74): Maximum, 34.5°C July 8, 17, 1974; minimum, freezing point on many days during winter period.

REMARKS.--Specific conductance and temperature data recorded on channel no. 2 (06763990).

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
OCT., 1973										
17...	3.0	1784	8.2	12.0	60	9.3	260	740	720	820
NOV.										
28...	2.8	1810	8.3	4.0	30	11.1	480	210	830	8160
DEC.										
17...	2.8	1998	8.2	4.0	10	10.2	430	895	815	855
JAN., 1974										
23...	2.8	1580	7.9	.0	60	12.2	11000	860	310	540
FEB.										
27...	2.8	1790	8.1	4.5	70	10.8	1300	8240	835	8360
MAR.										
29...	2.7	1780	8.2	12.5	60	8.9	5900	8300	820	860
APR.										
17...	2.8	1730	8.2	12.5	100	9.3	9200	3000	860	8280
MAY										
01...	2.8	1810	8.3	19.5	10	8.2	2800	810	85	880
JUNE										
27...	2.7	1950	8.2	16.0	2	8.2	15000	860	840	240
JULY										
30...	2.9	1940	8.1	27.0	1	12.4	4900	835	810	840
AUG.										
29...	2.8	2030	7.7	15.0	1	9.8	2400	100	85	820
SEP.										
24...	3.2	1970	7.9	13.0	20	9.3	8100	540	890	220

DATE	ALDRIN IN FILT. FRAC. (UG/L)	ALDRIN IN SUSP. FRAC. (UG/L)	ALDRIN (UG/L)	CHLORDANE IN FILT. FRAC. (UG/L)	CHLORDANE IN SUSP. FRAC. (UG/L)	CHLORDANE (UG/L)	DDD IN FILT. FRAC. (UG/L)	DDD IN SUSP. FRAC. (UG/L)	DDD (UG/L)	DDE IN FILT. FRAC. (UG/L)	DDE IN SUSP. FRAC. (UG/L)
NOV., 1973											
28...	.00	.00	.00	.0	.0	.0	.00	.00	.00	.00	.00
MAR., 1974											
29...	.00	.00	.00	.0	.0	.0	.00	.00	.00	.00	.00
APR.											
17...	.00	.00	.00	.0	.0	.0	.00	.00	.00	.00	.01

DATE	DDE (UG/L)	DDT IN FILT. FRAC. (UG/L)	DDT IN SUSP. FRAC. (UG/L)	DDT (UG/L)	DIAZINON IN FILT. FRAC. (UG/L)	DIAZINON IN SUSP. FRAC. (UG/L)	DIAZINON (UG/L)	DIELDRIN IN FILT. FRAC. (UG/L)	DIELDRIN IN SUSP. FRAC. (UG/L)	DIELDRIN (UG/L)	ENDRIN IN FILT. FRAC. (UG/L)
NOV., 1973											
28...	.00	.00	.00	.00	.01	.00	.01	.00	.00	.00	.00
MAR., 1974											
29...	.00	.00	.00	.00	.01	.00	.01	.00	.00	.00	.00
APR.											
17...	.01	.00	.01	.01	.00	.00	.00	.00	.01	.01	.00

DATE	ENDRIN IN SUSP. FRAC. (UG/L)	ENDRIN (UG/L)	HEPTACHLOR IN FILT. FRAC. (UG/L)	HEPTACHLOR IN SUSP. FRAC. (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE IN FILT. FRAC. (UG/L)	HEPTACHLOR EPOXIDE IN SUSP. FRAC. (UG/L)	HEPTACHLOR EPOXIDE (UG/L)	LINDANE IN FILT. FRAC. (UG/L)	LINDANE IN SUSP. FRAC. (UG/L)	LINDANE (UG/L)
NOV., 1973											
28...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAR., 1974											
29...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
APR.											
17...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

06764000 SOUTH PLATTE RIVER AT JULESBURG, COLO.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	MALATHION IN FILT. FRAC. (UG/L)	MALATHION IN SUSP. FRAC. (UG/L)	MALATHION (UG/L)	METHYL PARATHION IN FILT. FRAC. (UG/L)	METHYL PARATHION IN SUSP. FRAC. (UG/L)	METHYL PARATHION (UG/L)	PARATHION IN FILT. FRAC. (UG/L)	PARATHION IN SUSP. FRAC. (UG/L)	PARATHION (UG/L)	PCB IN FILT. FRAC. (UG/L)	PCB IN SUSP. FRAC. (UG/L)
NOV., 1973											
28...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0	.0
MAR., 1974											
29...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0	.0
APR.											
17...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0	.0

DATE	PCB (UG/L)	2,4-D IN FILT. FRAC. (UG/L)	2,4-D IN SUSP. FRAC. (UG/L)	2,4-D (UG/L)	2,4,5-T IN FILT. FRAC. (UG/L)	2,4,5-T IN SUSP. FRAC. (UG/L)	2,4,5-T (UG/L)	SILVEX IN FILT. FRAC. (UG/L)	SILVEX IN SUSP. FRAC. (UG/L)	SILVEX (UG/L)
NOV., 1973										
28...	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAR., 1974										
29...	.0	.03	.00	.03	.00	.00	.00	.01	.00	.01
APR.										
17...	.0	.04	.00	.04	.00	.00	.00	.00	.00	.00

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUSPENDED CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)
NOV., 1973											
28...	7.3	4	1	3	10	10	0	0	0	0	<50
MAR., 1974											
29...	8.7	4	--	3	<10	<9	1	0	0	0	<50
JUNE											
27...	5.3	3	1	2	<10	<9	1	0	0	0	<50
SEP.											
24...	--	2	0	3	<10	<10	0	0	0	0	<50

DATE	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUSPENDED LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
NOV., 1973											
28...	50	0	20	10	10	2500	150	<100	100	0	150
MAR., 1974											
29...	<50	0	10	5	5	4300	80	<100	<95	5	180
JUNE											
27...	<50	0	<10	<7	3	130	30	<100	<96	4	390
SEP.											
24...	<49	1	10	8	2	900	640	<100	<98	2	280

DATE	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUSPENDED MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	SUSPENDED SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
NOV., 1973											
28...	90	60	.5	.4	.1	8	0	8	40	10	30
MAR., 1974											
29...	180	0	.0	.0	.0	5	0	5	70	60	10
JUNE											
27...	0	410	.0	.0	.0	3	0	4	50	40	10
SEP.											
24...	270	10	.2	.1	.1	1	0	1	40	30	10

06764000 SOUTH PLATTE RIVER AT JULESBURG, COLO.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	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)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED NATURAL URANIUM (U) (UG/L)
JAN., 1974								
23...	170	16	17	22	15	19	.09	38
FEB.								
27...	100	15	19	12	16	10	.08	44
MAR.								
29...	92	14	18	10	15	9.0	.09	43
JUNE								
27...	76	<.4	22	7.0	18	6.4	.16	21
JULY								
30...	110	.6	38	1.9	32	1.7	.06	31
AUG.								
29...	67	<.4	32	3.6	27	3.2	.06	30
SEP.								
24...	84	8.2	29	22	24	18	.09	37

DATE	DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR., 1974					
29...	775	12.5	218	456	74
APR.					
17...	1410	12.5	618	2350	47
MAY					
01...	365	19.5	80	79	64
JUNE					
27...	34	16.0	134	12	19
JULY					
30...	31	27.0	40	3.3	80
AUG.					
29...	25	15.0	66	4.5	90
SEP.					
24...	264	13.0	163	116	75

06764000 SOUTH PLATTE RIVER AT JULESBURG, COLO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1670	1650	1690	1660	1710	1490	2010	1600	1710	1670	1710	1790
2	1670	1650	1700	1620	1710	1500	2060	1660	1710	1670	1700	1790
3	1670	1630	1730	1650	1720	1510	2200	1620	1710	1650	1710	1810
4	1660	1620	1730	1760	1730	1710	2220	1520	1720	1660	1710	1880
5	1630	1590	1710	1810	1750	1820	2210	1480	1720	1680	1710	1860
6	1630	1610	1660	1800	1770	1810	2170	1530	1700	1700	1710	1720
7	1620	1700	1730	1800	1760	1800	2140	1580	1700	1700	1680	1710
8	1640	1710	1740	1860	1740	1330	2090	1640	1650	1700	1690	1520
9	1640	1760	1730	1860	1750	1060	2150	1660	1600	1700	1740	1590
10	1630	1770	1750	1900	1840	1390	2210	1710	1650	1690	1720	1630
11	1630	1770	1740	1880	1870	1840	2230	1730	1640	1710	1740	1710
12	1610	1760	1740	1910	1870	1870	2250	1740	1490	1710	1750	1740
13	1600	1740	1730	1860	1840	1890	2250	1720	1170	1700	1740	1770
14	1590	1720	1730	1920	1810	1870	2280	1680	1450	1690	1770	1790
15	1600	1710	1730	1910	1810	1900	2180	1670	1390	1640	1800	1790
16	1610	1730	1730	1860	1820	1910	1930	1680	1580	1720	1800	1810
17	1610	1730	1740	1830	1800	1760	1780	1680	1670	1740	1810	1800
18	1670	1720	1730	1810	1730	1610	1770	1690	1690	1730	1800	1780
19	1690	1750	1710	1780	1690	1940	1720	1690	1680	1720	1810	1770
20	1670	1730	1780	1770	1800	2020	1700	1690	1680	1710	1790	1760
21	1690	1730	1830	1760	1830	2060	1770	1680	1690	1690	1780	1770
22	1650	1710	1800	1530	1830	2050	1850	1690	1700	1710	1790	1760
23	1590	1700	1770	1200	1800	2050	1930	1700	1700	1700	1790	1750
24	1590	1680	1780	1200	1620	2030	1790	1700	1710	1670	1790	1740
25	1550	1690	1680	1190	1380	2090	1800	1710	1720	1690	1780	1750
26	1530	1640	1700	1170	1370	2090	1800	1700	1710	1710	1770	1760
27	1540	1650	1620	1350	1400	2090	1790	1690	1700	1710	1770	1760
28	1580	1730	1660	1810	1480	2100	1750	1700	1690	1700	1770	1760
29	1720	1640	1670	1740	---	2140	1670	1700	1680	1700	1780	1770
30	1700	1710	1700	1710	---	2160	1620	1690	1660	1710	1770	1780
31	1660	---	1700	1700	---	2100	---	1700	---	1710	1770	---

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.5	7.0	3.5	---	1.0	5.5	10.0	17.0	14.5	22.5	23.5	14.0
2	16.0	6.5	3.5	0.0	1.0	7.0	10.5	13.5	18.0	24.0	21.5	15.5
3	16.5	5.0	4.5	---	1.0	7.0	7.0	12.0	19.5	22.0	21.5	15.5
4	14.5	3.0	3.5	0.0	1.5	7.0	5.5	14.0	20.0	21.5	21.5	17.0
5	14.0	2.5	3.0	0.0	1.5	6.0	8.0	15.5	18.5	21.5	22.5	17.0
6	14.5	4.5	2.0	0.0	0.5	7.5	10.5	16.5	14.5	22.0	22.0	19.0
7	15.0	6.0	1.0	0.0	0.5	7.0	9.0	17.0	14.5	23.0	21.5	20.0
8	15.5	5.0	2.0	0.0	0.5	7.0	9.0	17.5	11.0	25.0	21.5	20.0
9	14.0	5.5	3.5	0.0	0.0	7.0	9.5	16.0	13.5	25.0	21.5	21.0
10	12.5	6.5	2.0	0.0	1.0	5.5	9.5	14.5	17.5	24.5	20.5	21.5
11	10.0	7.5	2.5	0.0	2.0	4.5	9.0	14.0	20.0	24.5	21.0	15.5
12	9.5	8.5	3.5	-0.5	3.0	5.5	8.5	14.5	20.5	24.5	21.5	12.5
13	10.5	9.0	3.5	-0.5	3.0	6.5	8.5	13.0	21.0	24.5	23.0	13.5
14	11.5	8.5	3.5	-0.5	3.5	7.0	7.0	12.0	21.5	22.5	23.5	15.5
15	12.5	7.5	3.5	-0.5	4.0	7.5	8.0	15.0	22.5	22.5	23.0	17.0
16	12.5	6.0	3.0	-0.5	4.5	7.5	9.0	15.5	21.5	23.5	23.5	17.5
17	12.5	5.5	3.5	-0.5	5.0	10.0	11.0	12.0	22.0	25.5	24.0	18.0
18	13.5	5.5	5.5	-0.5	5.0	10.5	10.5	13.0	24.0	25.5	23.0	18.0
19	13.5	5.5	1.5	-0.5	5.0	8.5	10.5	18.0	24.0	25.0	23.5	17.0
20	13.5	2.5	1.0	0.0	5.0	6.0	12.0	14.5	23.0	25.0	22.5	13.0
21	13.5	0.0	1.0	-0.5	3.0	5.5	10.0	13.0	22.0	24.0	22.0	13.0
22	13.0	1.0	1.0	-0.5	2.5	6.0	11.5	13.0	20.0	24.5	21.5	15.0
23	13.5	1.5	1.0	0.0	3.0	5.0	12.5	14.0	20.0	25.0	21.0	16.5
24	12.5	1.0	1.0	0.0	2.0	5.0	13.5	15.5	21.0	24.0	20.5	16.5
25	10.5	2.0	0.5	0.0	2.0	6.5	16.5	16.0	23.0	25.0	21.0	16.0
26	11.0	2.0	1.0	-0.5	3.5	8.0	15.0	17.0	23.0	25.5	22.0	16.5
27	10.5	3.0	1.0	0.0	5.0	8.5	14.5	18.0	21.5	25.5	19.5	13.5
28	8.5	2.5	0.5	0.0	5.0	10.5	12.0	19.5	23.5	23.5	19.5	13.0
29	8.5	3.0	0.5	0.5	---	10.0	14.0	16.5	23.5	24.0	18.0	13.5
30	9.5	3.0	0.5	0.5	---	10.5	14.5	15.0	22.5	24.0	18.5	13.0
31	8.5	---	---	0.5	---	11.5	---	12.5	---	23.5	17.0	---

ARKANSAS RIVER BASIN

07083000 HALFMOON CREEK NEAR MALTA, COLO.
(Hydrologic bench-mark station)

LOCATION.--Lat 39°10'20", long 106°23'19", in SE¼SE¼ sec.13, T.10 S., R.81 W., Lake County, at gaging station, 1.4 mi (2.3 km) upstream from culvert, 3.3 mi (5.3 km) upstream from mouth, and 4.3 mi (6.9 km) southwest of Malta.

DRAINAGE AREA.--23.6 mi^2 (61.1 km^2).

PERIOD OF RECORD.--Chemical analyses: November 1966 to September 1974.
Water temperatures: May 1967 to September 1974.

EXTREMES, 1973-74.--Water temperatures: Maximum, 17°C Aug. 17; minimum, freezing point on many days during October to May.
Period of record.--Water temperatures: Maximum, 17°C July 28, 1969, Aug. 13, 1972, Aug. 17, 1974; minimum, freezing point on many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT., 1973										
18...	6.1	5.8	70	0	9.4	3.6	1.0	.5	47	0
NOV.										
29...	4.1	6.7	70	0	11	4.2	1.7	.6	51	0
DEC.										
18...	4.1	6.8	50	10	11	4.4	2.2	.7	50	0
JAN., 1974										
24...	3.7	7.2	60	10	11	4.4	2.0	.7	51	0
MAR.										
07...	3.2	7.2	50	10	11	4.3	1.8	.7	51	0
APR.										
04...	6.1	7.5	180	0	11	4.3	2.0	.8	50	0
MAY										
16...	8.2	4.3	50	0	6.9	2.3	1.1	.7	31	0
JUNE										
19...	108	3.1	20	10	5.2	1.6	1.1	.5	23	0
JULY										
25...	28	4.5	80	0	8.0	2.1	.9	.5	33	0
SEP.										
06...	9.5	5.4	80	10	9.8	4.6	1.6	.6	44	--

DATE	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 NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)
OCT., 1973										
18...	39	5.3	.7	.2	.11	.02	50	.82	.07	38
NOV.										
29...	42	6.1	.6	.2	.27	.00	58	.64	.08	45
DEC.										
18...	41	8.2	.8	.1	.24	.02	60	.66	.08	46
JAN., 1974										
24...	42	5.8	.1	1.1	.13	.00	58	.58	.08	46
MAR.										
07...	42	5.6	.9	.1	.13	.01	57	.49	.08	45
APR.										
04...	41	6.4	.6	.3	.13	.00	58	.96	.08	45
MAY										
16...	25	4.5	.3	.2	.08	.01	36	.80	.05	27
JUNE										
19...	19	3.3	.1	.3	.12	.00	27	7.88	.04	20
JULY										
25...	27	3.9	.5	.1	.05	.00	37	2.80	.05	29
SEP.										
06...	36	5.6	1.4	.1	.08	.00	51	1.31	.07	43

07083000 HALFMOON CREEK NEAR MALTA, COLO.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	NON-CARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
OCT., 1973										
18...	0	5	.1	85	8.0	5.0	9.0	80	80	--
NOV.										
29...	3	8	.1	95	8.1	.0	9.6	80	80	80
DEC.										
18...	5	9	.1	88	7.7	.0	9.8	80	82	82
JAN., 1974										
24...	4	9	.1	99	7.3	.0	--	81	80	80
MAR.										
07...	3	8	.1	99	7.9	.0	10.1	81	80	80
APR.										
04...	4	9	.1	100	7.6	.0	10.4	80	80	80
MAY										
16...	1	8	.1	60	7.7	2.0	9.1	80	80	81
JUNE										
19...	1	11	.1	43	7.7	6.0	8.2	80	80	82
JULY										
25...	2	6	.1	63	7.7	15.0	7.0	811	80	85
SEP.										
06...	7	7	.1	82	6.6	8.0	8.2	83	83	82

DATE	CYANIDE (CN) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)
DEC., 1973											
18...	--	1	0	<10	0	<10	60	<100	10	.0	1
MAY , 1974											
16...	.00	3	0	<10	0	<10	300	<100	10	.0	2

DATE	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/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)	DISSOLVED RA-226 (RADON METHOD) (PC/L)	DISSOLVED URANIUM (U) (UG/L)
DEC., 1973										
18...	<10	70	<.5	<.4	1.2	<.4	1.0	<.4	.03	.08
MAY , 1974										
16...	<10	40	--	--	--	--	--	--	--	--

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DISCHARGE (CFS)	TEMPERATURE (DEG C)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAY , 1974				
16...	8.2	2.0	2	.04
JUNE				
19...	108	6.0	22	6.4
JULY				
25...	28	15.0	1	.08
SEP.				
06...	9.5	8.0	2	.05

07083000 HALFMOON CREEK NEAR MALTA, COLO.--Continued

TEMPERATURE (DEG. C) OF WATER . WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	2.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	10.0	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	7.0	2.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	9.5	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	9.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	9.0	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	9.5	3.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	8.0	2.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	5.5	3.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	3.5	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	7.0	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	6.5	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	8.0	1.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	8.5	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	8.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	8.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	8.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	8.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	7.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
20	6.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
27	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
28	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
29	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	1.0	0.0
30	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	2.0	0.0
31	2.0	0.0	---	---	0.0	0.0	0.0	0.0	---	---	1.0	0.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	0.5	0.0	7.0	0.0	7.0	1.5	12.0	5.0	13.5	7.0	14.5	5.5
2	1.0	0.0	6.5	0.0	8.5	1.0	13.5	5.0	10.0	7.0	15.0	7.0
3	0.5	0.0	8.5	1.0	6.0	1.5	14.0	5.0	12.0	7.0	14.0	6.0
4	0.0	0.0	6.0	0.0	8.5	1.5	14.0	5.0	12.5	5.0	14.5	4.5
5	0.5	0.0	9.5	0.5	6.0	2.0	11.0	5.5	14.0	6.5	13.5	5.5
6	0.5	0.0	9.0	0.0	7.5	2.0	10.0	5.5	15.0	7.5	15.0	5.5
7	0.0	0.0	7.5	0.0	6.0	1.0	12.5	6.0	12.0	8.0	14.5	5.0
8	0.5	0.0	9.5	0.0	4.0	1.5	9.5	5.5	11.0	5.0	13.0	5.5
9	2.0	0.0	7.0	0.5	10.0	1.0	12.5	5.0	12.0	7.0	13.0	6.0
10	1.0	0.0	7.5	1.0	11.0	1.5	12.5	7.0	14.5	5.5	13.0	6.0
11	0.5	0.0	7.5	0.0	12.0	2.0	15.0	6.0	15.0	5.0	13.5	6.0
12	0.0	0.0	7.5	0.0	11.0	2.0	13.0	6.5	14.0	5.5	13.5	6.0
13	0.5	0.0	4.5	1.0	9.5	2.5	12.0	7.0	14.5	5.5	10.5	6.0
14	0.5	0.0	6.0	0.0	11.0	2.5	14.5	6.5	16.0	5.0	9.5	6.0
15	1.0	0.0	11.0	0.5	9.5	2.5	13.0	7.5	15.0	7.0	7.5	5.5
16	2.0	0.0	11.0	1.5	8.0	3.0	13.0	8.0	15.5	6.0	11.0	5.5
17	3.5	0.0	8.5	1.0	8.0	2.5	12.0	8.0	17.0	7.0	8.5	4.0
18	4.0	0.0	8.5	1.0	11.0	2.5	15.5	7.0	16.0	6.5	9.5	4.0
19	2.0	0.0	4.0	1.0	10.0	3.0	15.5	7.0	12.0	7.0	13.0	4.0
20	2.0	0.0	5.5	0.0	10.0	4.0	13.0	7.0	14.5	7.0	13.5	4.5
21	4.0	0.5	8.0	0.0	12.0	3.5	12.0	7.5	13.0	5.5	13.5	6.0
22	5.0	0.0	9.0	0.0	11.5	3.5	12.5	7.5	14.0	5.5	13.5	6.0
23	4.0	0.0	7.0	0.5	11.5	4.0	15.5	7.0	15.5	5.0	11.0	4.5
24	4.0	0.5	7.5	1.0	12.5	4.0	14.0	8.0	12.0	5.5	11.5	4.5
25	3.5	1.0	9.0	1.0	12.0	4.5	16.0	7.0	11.5	6.0	12.5	4.0
26	5.5	1.0	9.5	1.5	12.5	4.5	13.5	7.5	12.5	5.0	11.0	4.0
27	5.5	0.0	8.0	1.5	13.5	5.0	12.0	7.5	12.0	7.0	7.0	3.5
28	4.5	0.0	8.0	1.5	13.5	5.0	13.5	6.5	13.0	6.0	10.0	2.0
29	3.5	0.5	8.5	1.0	14.0	5.0	14.0	7.5	14.5	6.0	11.0	2.0
30	7.0	0.0	8.5	1.0	12.0	5.0	15.5	7.0	14.0	6.5	10.5	1.5
31	---	---	7.5	1.5	---	---	13.5	8.0	14.5	7.5	---	---

07096000 ARKANSAS RIVER AT CANON CITY, COLO.

LOCATION.--Lat 38°26'02", long 105°15'24", in SE¼SE¼ sec.31, T.18 S., R.70 W., Fremont County, at gaging station, on right bank 800 ft (240 m) upstream from Sand Creek, 0.7 mi (1.1 km) downstream from Grape Creek, and 0.7 mi (1.1 km) upstream from First Street Bridge in Canon City.

DRAINAGE AREA.--3,117 mi² (8,073 km²).

PERIOD OF RECORD.--Chemical analyses: November 1963 to September 1965, January 1966 to September 1968, October 1970 to September 1974.
Sediment records: October 1970 to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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., 1973												
15...	232	13	10	17	43	10	14	2.2	151	5	132	43
NOV.												
20...	340	13	10	10	43	11	15	2.1	160	1	133	42
JAN., 1974												
22...	525	7.9	30	0	28	6.8	9.3	1.5	104	0	85	26
MAR.												
05...	336	10	30	30	31	7.4	10	1.7	115	0	94	28
APR.												
02...	219	11	40	25	41	10	14	2.3	154	0	126	33
MAY												
03...	840	7.0	90	10	19	4.3	6.8	1.3	66	0	54	20
JUNE												
20...	1680	6.8	50	0	16	3.5	4.0	1.0	58	0	48	13
JULY												
26...	1100	8.4	50	0	20	4.1	4.6	1.2	69	0	57	17
AUG.												
22...	322	10	20	20	30	6.4	8.6	1.6	113	0	93	26

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT., 1973												
15...	7.6	.7	.06	.05	213	150	16	.5	344	8.5	12.0	8.9
NOV.												
20...	9.2	.5	.18	.05	217	150	20	.5	360	8.5	3.5	--
JAN., 1974												
22...	4.9	.5	.18	.01	137	98	13	.4	242	8.0	1.0	12.5
MAR.												
05...	7.3	.6	.20	.04	154	110	14	.4	258	8.2	4.0	10.8
APR.												
02...	7.5	.7	.07	.02	196	140	17	.5	333	8.2	8.5	10.5
MAY												
03...	2.8	.3	.09	.00	95	65	11	.4	163	7.5	12.0	--
JUNE												
20...	1.6	.5	.04	.00	75	54	7	.2	133	8.0	16.0	8.6
JULY												
26...	2.6	.3	.28	.01	94	67	10	.2	160	7.6	19.0	8.0
AUG.												
22...	5.2	.5	.03	.00	144	100	9	.4	246	8.2	19.0	8.1

07096000 ARKANSAS RIVER AT CANON CITY, COLO.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
OCT., 1973											
15...	232	12.0	8	5.0	--	--	--	--	--	--	--
NOV.											
02...	260	5.5	7	4.9	--	--	--	--	--	--	--
20...	340	3.5	12	11	--	--	--	--	--	--	--
MAR., 1974											
05...	336	4.0	20	18	--	--	--	--	--	--	--
21...	280	5.0	24	18	--	--	--	--	--	--	--
APR.											
02...	219	8.5	10	5.9	--	--	--	--	--	--	--
23...	204	13.0	8	4.4	--	--	--	--	--	--	--
MAY											
03...	840	12.0	62	141	--	--	--	--	--	--	--
14...	1930	--	121	631	--	--	33	45	60	85	100
29...	2130	--	205	1180	12	12	34	50	71	90	100
JUNE											
20...	1680	16.0	62	281	--	--	35	47	68	100	--
JULY											
09...	1080	17.0	30	88	--	--	--	--	--	--	--
26...	1100	19.0	74	220	11	14	53	74	91	100	--
AUG.											
07...	840	17.0	81	184	22	38	84	90	97	100	--
22...	322	19.0	15	13	--	--	--	--	--	--	--
SEP.											
10...	376	18.0	27	27	--	--	--	--	--	--	--

07099200 ARKANSAS RIVER NEAR PORTLAND, COLO.

LOCATION.--Lat 38°20'14", long 104°56'18", in NW¼SW¼ sec.6, T.20 S., R.67 W., Pueblo County, at gaging station, 1.4 mi (2.3 km) downstream from Willow Spring Creek and 5.4 mi (8.7 km) southeast of Portland.

DRAINAGE AREA.--4,280 mi^2 (11,085 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1964 to September 1974.
Sediment records: October 1964 to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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., 1973												
15...	306	13	10	42	77	24	31	3.0	180	5	156	180
NOV.												
19...	297	13	10	30	82	25	34	3.1	196	1	162	200
DEC.												
21...	270	13	50	10	76	24	30	2.9	181	0	148	180
JAN., 1974												
21...	546	11	30	20	49	16	20	2.1	129	0	106	120
MAR.												
04...	385	11	30	60	55	17	22	2.4	141	0	116	130
APR.												
01...	351	11	0	--	57	18	27	2.9	168	0	138	110
30...	574	9.8	120	20	47	14	20	2.6	125	0	103	110
JUNE												
21...	1400	7.4	20	0	25	6.3	8.0	1.1	70	2	61	44
JULY												
30...	1060	9.3	110	0	34	7.9	13	2.6	110	0	90	58
AUG.												
22...	362	9.3	20	30	52	15	22	2.4	138	0	113	110

07099200 ARKANSAS RIVER NEAR PORTLAND, COLO.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT., 1973												
15...	11	.7	.16	.06	434	290	140	.8	672	8.5	14.0	12.0
NOV.												
19...	12	1.0	.30	.06	469	310	150	.8	736	8.4	6.0	--
DEC.												
21...	9.8	.8	.58	.08	429	290	140	.8	655	8.1	3.0	11.8
JAN., 1974												
21...	6.9	.5	.32	.04	291	190	82	.6	471	7.9	2.0	12.2
MAR.												
04...	8.2	.7	.28	.05	317	210	92	.7	504	8.1	9.0	10.0
APR.												
01...	10	.8	.24	.04	321	220	79	.8	550	8.1	11.0	10.6
30...	6.1	.4	.25	.01	273	180	72	.7	444	7.4	12.0	8.1
JUNE												
21...	3.9	.3	.13	.04	133	88	28	.4	214	8.4	2[illegible].0	8.6
JULY												
30...	4.3	.4	.23	.08	185	120	27	.5	310	7.9	20.5	7.3
AUG.												
22...	6.5	.5	.10	.01	286	190	78	.7	473	8.3	18.0	9.7

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
OCT., 1973							
15...	306	14.0	16	13	--	--	--
NOV.							
02...	315	8.0	26	22	--	--	--
19...	297	6.0	12	9.6	--	--	--
DEC.							
07...	300	3.0	15	12	--	--	--
21...	270	3.0	14	10	--	--	--
JAN., 1974							
09...	324	.0	35	31	--	--	--
21...	546	2.0	115	170	--	--	--
FEB.							
14...	495	6.0	42	56	--	--	--
MAR.							
04...	385	9.0	32	33	--	--	--
21...	285	2.0	24	18	--	--	--
APR.							
01...	351	11.0	60	57	--	--	--
23...	105	12.0	13	3.7	--	--	--
30...	574	12.0	427	662	27	29	--
MAY							
13...	1650	16.0	363	1620	10	11	--
28...	1740	19.5	375	1760	7	7	--
JUNE							
21...	1400	20.0	180	681	--	--	--
JULY							
10...	1020	19.0	45	124	--	--	--
23...	1650	--	1360	6060	39	40	57
AUG.							
22...	362	18.0	41	40	29	38	--
SEP.							
11...	409	--	84	93	--	--	--

07099200 ARKANSAS RIVER NEAR PORTLAND, COLO.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM
OCT., 1973						
15...	--	--	--	--	--	--
NOV.						
02...	--	--	--	--	--	--
19...	--	--	--	--	--	--
DEC.						
07...	--	--	--	--	--	--
21...	--	--	--	--	--	--
JAN., 1974						
09...	65	65	90	100	--	--
21...	25	34	61	100	--	--
FEB.						
14...	--	--	--	--	--	--
MAR.						
04...	--	--	--	--	--	--
21...	--	--	--	--	--	--
APR.						
01...	--	--	--	--	--	--
23...	--	--	--	--	--	--
30...	79	87	94	100	--	--
MAY						
13...	37	55	80	99	100	--
28...	33	61	85	99	100	--
JUNE						
21...	14	20	34	78	100	--
JULY						
10...	--	--	--	--	--	--
23...	84	93	98	100	--	--
AUG.						
22...	100	--	--	--	--	--
SEP.						
11...	49	55	66	87	91	100

07130500 ARKANSAS RIVER BELOW JOHN MARTIN RESERVOIR, COLO.
(Irrigation network station)

LOCATION.--Lat 38°05'02", long 102°55'10", in NW¼NW¼ sec.4, T.23 S., R.49 W., Bent County, at gaging station, 1.1 mi (1.8 km) upstream from Caddoa Creek, 1.7 mi (2.7 km) downstream from John Martin Dam, and 2.9 mi (4.7 km) southeast of Hasty.

DRAINAGE AREA.--18,917 mi² (48,995 km²), of which 785 mi² (2,033 km²) is probably noncontributing.

PERIOD OF RECORD.--Chemical analyses: August 1942 to August 1943, October 1945 to July 1949, January 1951 to September 1974.
Water temperatures: January 1951 to September 1974.

EXTREMES, 1973-74.--Specific conductance: Maximum daily, 3,700 micromhos Jan. 24; minimum daily, 700 micromhos July 26.
Water temperatures: Maximum, 25°C July 26; minimum, 1°C Nov. 21, Dec. 6, 7.
Period of record.--Specific conductance: Maximum daily, 5,180 micromhos Apr. 21, 1955; minimum daily, 476 micromhos June 18, 1965.
Water temperatures: Maximum, 29°C Aug. 6, 1951; minimum, freezing point on many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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., 1973												
10...	204	15	20	32	230	87	210	6.9	271	0	222	1000
NOV.												
14...	33	13	10	210	330	140	390	7.8	316	0	259	1800
DEC.												
05...	2.6	14	20	1300	350	170	440	8.7	330	0	271	2000
JAN., 1974												
08...	4.8	16	40	1700	360	180	440	9.1	412	0	338	2000
FEB.												
06...	3.0	14	20	2200	370	180	460	8.3	404	0	331	2100
MAR.												
05...	3.0	12	540	1700	320	160	400	9.2	372	0	305	1800
APR.												
02...	1070	11	70	140	300	140	340	8.7	281	0	230	1600
MAY												
07...	54	12	30	360	340	160	410	8.8	336	0	276	1900
JULY												
02...	36	8.4	40	10	140	57	140	5.9	167	0	137	670
AUG.												
01...	24	11	20	90	300	130	360	9.6	210	0	172	1700
SEP.												
18...	7.6	7.3	20	250	280	170	440	9.6	252	--	207	1900

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT., 1973												
10...	67	1.2	2.9	.08	1760	930	710	3.0	2340	8.0	13.0	--
NOV.												
14...	110	.9	1.6	.04	2960	1400	1100	4.5	3585	8.0	13.0	9.0
DEC.												
05...	120	1.0	1.2	.06	3270	1600	1300	4.8	3780	7.8	6.0	14.4
JAN., 1974												
08...	140	1.1	.98	.03	3360	1600	1300	4.7	4130	7.9	1.0	12.8
FEB.												
06...	130	.9	.94	.01	3470	1700	1300	4.9	4000	7.8	4.0	14.6
MAR.												
05...	130	1.0	.44	.03	3020	1500	1200	4.6	3560	7.8	14.5	11.8
APR.												
02...	93	1.1	.21	.02	2630	1300	1100	4.1	3330	8.1	11.0	9.8
MAY												
07...	120	1.2	1.4	.03	3120	1500	1200	4.6	3880	7.8	20.0	9.0
JULY												
02...	51	.9	1.1	.03	1160	580	450	2.5	1690	7.4	26.0	--
AUG.												
01...	110	1.0	.79	.00	2730	1300	1100	4.4	3340	7.7	27.0	14.0
SEP.												
18...	120	1.0	.28	.04	3050	1400	1200	5.1	3900	7.4	22.0	11.2

07130500 ARKANSAS RIVER BELOW JOHN MARTIN RESERVOIR, COLO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2100	2200	---	---	3100	2600	2100	2700	1200	1200	2000	2000
2	2000	2200	---	---	---	---	2000	2450	1100	1150	1800	2000
3	1800	2400	2900	3000	---	---	2000	2450	1080	1200	1800	1950
4	1800	---	3000	3100	3000	2500	2000	2450	1000	900	1800	1950
5	1700	2700	2800	---	3000	2500	2000	2400	1050	1050	2000	1950
6	1900	2600	2600	---	3000	2500	2000	1900	1100	1150	2050	2000
7	1900	2700	2800	3500	3500	2500	2000	2300	1150	1300	2050	2000
8	1700	2700	---	3500	3000	2300	2000	2400	1150	1500	2000	2100
9	1900	3000	---	3500	---	---	2000	2400	1300	1700	2050	2100
10	1900	---	3500	3400	---	---	2100	2400	1200	1900	2000	2000
11	1800	---	3500	3500	3000	2200	2100	2400	1000	2050	2200	2000
12	2000	3200	3500	---	2800	2400	2200	2000	1150	2100	2000	2000
13	2000	2800	3500	---	3000	2400	2000	1500	1300	2100	2100	2100
14	1700	3000	3500	3500	3000	2400	2000	1200	1450	2100	2100	2000
15	1600	2800	---	3000	3000	2300	2000	900	1600	2150	2100	2050
16	1700	2600	---	3500	---	---	2100	850	1500	2200	2100	2100
17	1800	---	3400	3500	---	---	2100	850	1600	2200	1200	2100
18	1800	---	3300	3500	---	2600	2400	825	1500	2200	750	2000
19	1800	2800	3300	---	3200	2300	2400	1000	1300	2200	750	1900
20	1800	2400	3500	---	3500	2200	2300	1500	1500	2200	1500	1950
21	1900	2600	3500	3500	3400	2800	2400	1300	1200	2400	1800	2100
22	1900	---	---	3400	3500	2800	2400	1200	1200	2400	1700	2050
23	1850	3000	---	3400	---	---	2600	1350	1200	2250	1800	2000
24	1950	---	---	3700	---	2200	2550	1150	1200	2000	1900	2000
25	1950	---	---	3500	2800	2300	2600	1100	1150	2100	1900	2050
26	2000	2900	3500	---	3000	2200	2600	1150	1050	700	2000	2050
27	2600	3000	3500	---	2800	2200	2500	950	1050	800	2000	2000
28	2000	3000	3200	3400	2900	2200	2600	1100	1100	1100	2000	2000
29	2000	3000	---	3100	---	2200	2550	1400	1100	1350	1900	1900
30	2000	3000	---	3100	---	2200	2600	1600	1100	1500	1900	2050
31	2100	---	---	3100	---	2300	---	1500	---	1900	2000	---

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.0	8.0	---	---	7.0	8.0	9.0	13.0	18.0	22.0	21.0	17.0
2	15.0	6.0	---	---	---	---	10.0	15.0	19.0	22.0	20.0	13.0
3	15.0	7.0	5.0	5.0	---	---	9.0	14.0	20.0	23.0	17.0	12.0
4	11.0	---	5.0	3.0	4.0	8.0	6.0	12.0	19.0	22.0	18.0	14.0
5	12.0	7.0	2.0	---	4.0	6.0	8.0	12.0	21.0	21.0	19.0	15.0
6	12.0	6.0	1.0	---	3.0	8.0	9.0	15.0	19.0	20.0	18.0	16.0
7	14.0	7.0	1.0	9.0	4.0	8.0	10.0	16.0	18.0	20.0	18.0	16.0
8	14.0	9.0	---	9.0	4.0	7.0	8.0	17.0	18.0	21.0	20.0	17.0
9	14.0	10.0	---	8.0	---	---	9.0	15.0	14.0	21.0	19.0	17.0
10	13.0	---	9.0	9.0	---	---	10.0	18.0	16.0	22.0	19.0	18.0
11	9.0	---	9.0	8.0	10.0	5.0	10.0	16.0	18.0	22.0	18.0	17.0
12	10.0	10.0	10.0	---	5.0	7.0	9.0	15.0	19.0	22.0	19.0	13.0
13	11.0	9.0	8.0	---	6.0	9.0	10.0	17.0	21.0	21.0	20.0	12.0
14	12.0	10.0	9.0	9.0	8.0	10.0	7.0	15.0	22.0	21.0	19.0	13.0
15	14.0	7.0	---	8.0	8.0	7.0	8.0	15.0	22.0	21.0	20.0	12.0
16	12.0	6.0	---	10.0	---	---	8.0	17.0	22.0	20.0	20.0	15.0
17	13.0	---	8.0	10.0	---	---	10.0	18.0	21.0	20.0	20.0	15.0
18	13.0	---	8.0	10.0	---	10.0	12.0	18.0	22.0	20.0	20.0	15.0
19	13.0	7.0	5.0	---	7.0	8.0	13.0	19.0	24.0	20.0	20.0	15.0
20	13.0	6.0	5.0	---	8.0	7.0	11.0	18.0	24.0	21.0	19.0	15.0
21	12.0	1.0	6.0	6.0	3.0	6.0	11.0	15.0	24.0	21.0	19.0	13.0
22	12.0	---	---	5.0	8.0	6.0	10.0	16.0	23.0	20.0	19.0	13.0
23	12.0	4.0	---	5.0	---	---	12.0	18.0	22.0	21.0	18.0	13.0
24	12.0	---	---	5.0	---	2.0	11.0	19.0	20.0	23.0	18.0	12.0
25	10.0	---	---	6.0	5.0	4.0	15.0	19.0	20.0	23.0	18.0	12.0
26	9.0	3.0	6.0	---	6.0	5.0	16.0	19.0	20.0	25.0	18.0	12.0
27	9.0	4.0	6.0	---	7.0	6.0	15.0	21.0	21.0	24.0	18.0	14.0
28	8.0	4.0	6.0	5.0	8.0	7.0	14.0	21.0	23.0	22.0	18.0	12.0
29	9.0	5.0	---	6.0	---	7.0	14.0	20.0	24.0	20.0	18.0	11.0
30	8.0	5.0	---	5.0	---	8.0	13.0	19.0	23.0	14.0	18.0	12.0
31	8.0	---	---	7.0	---	10.0	---	18.0	---	19.0	18.0	---

RIO GRANDE BASIN

08251500 RIO GRANDE NEAR LOBATOS, COLO.

LOCATION.--Lat 37°04'42", long 105°45'22", in sec.22, T.33 N., R.11 E., Conejos County, at gaging station, at highway bridge, 6 mi (10 km) north of Colorado-New Mexico State line, 7 mi (11 km) downstream from Culebra Creek, 10 mi (16 km) east of Lobatos, and 14 mi (23 km) east of Antonito.

DRAINAGE AREA.--7,700 mi^2 (19,900 km^2) approximately (includes 2,940 mi^2 or 7,610 km^2 in closed basin in northern part of San Luis Valley, Colo.).

PERIOD OF RECORD.--Chemical analyses: September 1969 to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GRDSS 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)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED NATURAL URANIUM (U) (UG/L)
NOV., 1973									
09...	445	<2.3	<.4	4.2	.5	3.3	.5	.04	1.0
DEC.									
12...	330	3.1	1.0	4.5	1.0	3.6	.9	.02	1.0
JAN., 1974									
10...	270	<1.7	<.4	5.2	.7	4.1	.6	.02	.5
FEB.									
11...	250	3.8	<.4	3.7	.6	3.0	.5	.04	.6
MAR.									
11...	520	3.7	1.6	4.7	2.6	3.9	2.1	.03	--
APR.									
10...	266	19	1.2	6.3	1.9	5.3	1.6	.05	2.7
MAY									
07...	245	3.7	1.7	49	1.8	4.0	1.6	.03	1.0
JUNE									
10...	170	7.3	1.7	8.4	2.7	6.9	2.4	.03	2.0
JULY									
19...	24	4.8	1.2	8.6	1.2	7.1	1.0	.04	1.9
AUG.									
09...	24	6.5	4.4	11	6.4	9.2	5.4	.03	2.9
SEP.									
05...	18	8.8	2.3	9.2	2.4	7.6	2.0	.05	3.1

GRAND LAKE OUTLET BASIN

09013000 ALVA B. ADAMS TUNNEL AT EAST PORTAL, NEAR ESTES PARK, COLO.

LOCATION.--Lat 40°19'40", long 105°34'39", in SW¼NW¼ sec.9, T.4 N., R.73 W., Larimer County, at gaging station, at upstream end of Aspen Creek siphon, 700 ft (210 m) downstream from east portal and 4.5 mi (7.2 km) southwest of Estes Park.

PERIOD OF RECORD.--Chemical analyses: September 1970 to September 1974.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	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. PER 100 ML)
OCT., 1973							
18...	178	<50	7.7	9.0	7.9	3	1
NOV.							
16...	449	<50	7.5	5.0	7.7	0	0
DEC.							
06...	463	<50	7.0	3.0	8.1	0	0
JAN., 1974							
08...	504	55	7.2	2.0	8.3	15	9
FEB.							
25...	529	55	7.2	2.0	8.1	40	4
MAR.							
22...	489	55	7.1	2.0	8.4	8	1
APR.							
16...	548	60	7.3	3.0	8.6	3	1
MAY							
09...	500	<50	7.0	4.0	8.0	3	0
JUNE							
19...	435	<50	7.2	8.5	9.2	12	3
JULY							
25...	519	<50	7.6	15.0	7.6	245	9
AUG.							
09...	548	<50	7.4	15.0	7.9	120	5
SEP.							
12...	437	55	7.5	12.0	7.8	10	0

COLORADO RIVER MAIN STEM

09018300 GRANBY PUMP CANAL NEAR GRAND LAKE, COLO.

LOCATION.--Lat 40°12'24", long 105°50'56", in SE¼NE¼ sec.24, T.3 N., R.76 W., Grand County, at bridge 0.4 mi (0.6 km) west of Shadow Mountain Dam and 3.1 mi (5.0 km) southwest of Grand Lake.

PERIOD OF RECORD.--Chemical analyses: September 1970 to September 1974.

REMARKS.--Canal is part of the Colorado-Big Thompson project and transfers water between Lake Granby and Shadow Mountain Lake. Field data collected prior to the 1974 water year are available in the district office.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	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. PER 100 ML)
OCT., 1973							
04...	E250	65	7.0	7.0	4.2	80	80
NOV.							
21...	E250	55	7.9	5.0	7.6	80	80
DEC.							
13...	E250	60	7.6	3.0	7.8	80	80
JAN., 1974							
17...	E250	65	7.3	2.0	7.8	81	80
FEB.							
14...	E250	60	7.1	2.0	7.7	80	80
MAR.							
14...	325	70	7.1	2.5	7.4	80	80
APR.							
25...	E250	65	7.0	2.5	7.6	3	0
MAY							
15...	.00	--	--	--	--	--	--
JUNE							
12...	.00	--	--	--	--	--	--
JULY							
18...	E250	65	--	6.5	6.5	4	0
AUG.							
30...	E250	80	7.2	7.5	5.5	0	1
SEP.							
19...	E200	60	6.8	6.5	4.6	0	0

09034500 COLORADO RIVER AT HOT SULPHUR SPRINGS, COLO.

LOCATION.--Lat 40°04'27", long 106°06'24", Grand County, at bridge at Hot Sulphur Springs, 1.3 mi (2.1 km) downstream from gaging station and 3.5 mi (5.6 km) upstream from Beaver Creek.

DRAINAGE AREA.--825 mi^2 (2,137 km^2), at gaging station.

PERIOD OF RECORD.--Chemical analyses: April 1947 to September 1974.
Water temperatures: April 1949 to September 1974.

EXTREMES, 1973-74.--Specific conductance: Maximum daily, 400 micromhos Feb. 5; minimum daily, 65 micromhos May 20.
Water temperatures: Maximum, 21°C July 5; minimum, 1°C on several days during November to March.
Period of record.--Specific conductance (1947-71, 1972-74): Maximum daily, 400 micromhos Feb. 5, 1974; minimum daily, 48 micromhos June 27, 1947.
Water temperatures (1949-71, 1972-74): Maximum, 28°C July 17, 1971; minimum, freezing point on many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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.. 1973												
03...	92	12	90	16	16	2.7	6.8	1.4	77	0	63	5.1
NOV.												
14...	100	13	120	0	18	2.9	7.3	1.4	82	0	67	6.6
DEC.												
12...	67	11	100	--	17	2.8	6.8	1.5	76	0	62	6.3
JAN.. 1974												
16...	80	13	130	30	18	3.4	9.6	2.0	72	0	59	6.7
FEB.												
13...	84	13	70	10	17	3.2	8.8	1.5	69	0	57	4.5
MAR.												
13...	80	13	150	40	17	3.2	8.6	3.1	72	0	59	7.0
APR.												
24...	374	12	180	70	19	3.6	7.1	2.2	81	0	66	11
MAY												
15...	1460	12	40	40	9.4	1.7	4.1	.8	40	0	33	6.7
JUNE												
12...	807	12	30	20	13	2.4	4.5	1.3	55	0	45	6.5
JULY												
17...	430	14	150	10	20	3.5	5.9	1.6	79	0	65	5.1
AUG.												
30...	95	11	80	10	15	3.7	7.7	1.2	71	0	58	5.5
SEP.												
18...	83	12	90	10	18	3.7	6.5	1.4	80	--	66	5.8

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.. 1973												
03...	1.4	.3	.02	.01	84	51	0	.4	131	7.9	7.0	10.0
NOV.												
14...	1.9	.2	.02	.05	92	57	0	.4	147	8.3	2.0	10.2
DEC.												
12...	1.5	.2	.05	.03	85	54	0	.4	136	7.7	.0	10.5
JAN.. 1974												
16...	1.0	.2	.14	.03	90	59	0	.5	136	7.4	.0	9.3
FEB.												
13...	1.0	.2	.13	.03	84	56	0	.5	133	7.6	.0	9.0
MAR.												
13...	1.6	.2	.18	.04	90	56	0	.5	134	7.1	.0	9.2
APR.												
24...	2.6	.3	.08	.02	98	62	0	.4	156	8.5	8.0	9.6
MAY												
15...	1.8	.2	.06	.03	57	30	0	.3	76	7.6	8.0	8.6
JUNE												
12...	1.5	.2	.08	.02	69	42	0	.3	100	8.1	13.0	8.8
JULY												
17...	.9	.2	.04	.01	91	64	0	.3	137	7.9	16.5	8.1
AUG.												
30...	2.4	.2	.01	.01	82	53	0	.5	130	8.4	15.0	9.1
SEP.												
18...	2.6	.3	.03	.01	90	60	0	.4	142	7.7	10.0	9.9

09034500 COLORADO RIVER AT HOT SULPHUR SPRINGS, COLO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	160	---	140	160	160	180	160	130	80	120	140	158
2	140	---	120	160	160	180	150	120	80	120	150	140
3	140	---	120	150	160	200	190	120	90	130	160	140
4	140	---	120	160	140	200	180	115	95	125	160	150
5	140	140	120	150	400	160	150	100	100	130	160	145
6	140	150	120	160	200	160	150	100	120	135	155	150
7	120	80	140	160	180	160	150	100	120	140	150	150
8	140	150	140	160	200	200	150	90	120	140	160	150
9	140	150	140	140	200	200	170	80	120	145	159	150
10	160	140	140	140	200	200	145	80	120	140	150	150
11	160	140	140	140	200	200	160	80	105	140	160	140
12	140	140	140	140	180	200	150	75	110	140	150	140
13	---	140	140	140	200	110	150	75	105	140	150	150
14	150	140	140	140	200	140	150	80	100	140	150	140
15	150	160	140	140	300	130	155	80	115	140	150	140
16	150	160	140	140	200	130	160	80	---	140	140	140
17	150	160	140	140	180	160	150	75	125	150	142	145
18	140	160	140	140	180	150	150	75	80	150	150	150
19	150	160	120	140	160	160	160	75	70	140	150	160
20	160	140	140	140	180	160	155	65	79	140	145	160
21	160	140	140	140	180	160	162	75	75	140	150	---
22	140	220	140	150	180	160	140	75	75	135	150	160
23	140	110	140	140	180	150	150	80	80	145	140	155
24	140	160	140	140	180	160	150	75	83	135	140	160
25	150	140	140	180	180	150	155	80	80	140	140	160
26	155	140	130	140	200	150	140	80	80	150	140	165
27	160	140	140	140	180	138	---	90	90	140	140	160
28	160	140	140	120	200	180	130	85	90	140	140	160
29	---	140	140	140	---	160	140	80	120	140	130	160
30	145	140	130	120	---	145	140	80	120	145	140	160
31	140	---	130	140	---	160	---	85	---	145	140	---

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.0	---	3.0	2.0	4.0	3.0	7.0	10.0	14.0	16.0	19.0	17.0
2	15.0	---	3.0	2.0	4.0	3.0	8.0	8.0	14.0	16.0	17.0	19.0
3	10.0	---	3.0	3.0	4.0	2.0	7.0	11.0	15.0	18.0	17.0	16.0
4	14.0	---	3.0	2.0	1.0	2.0	8.0	10.0	13.0	20.0	17.0	16.0
5	11.0	4.0	3.0	3.0	1.0	2.0	11.0	12.0	10.0	21.0	19.0	15.0
6	10.0	4.0	2.0	8.0	1.0	3.0	10.0	10.0	11.0	19.0	20.0	18.0
7	9.0	6.0	3.0	2.0	3.0	4.0	9.0	10.0	10.0	18.0	17.0	17.0
8	10.0	6.0	4.0	2.0	2.0	3.0	10.0	13.0	8.0	18.0	16.0	17.0
9	6.0	6.0	2.0	3.0	2.0	3.0	11.0	11.0	10.0	20.0	16.0	17.0
10	9.0	5.0	2.0	2.0	2.0	3.0	8.0	10.0	14.0	20.0	16.0	17.0
11	8.0	5.0	1.0	8.0	2.0	3.0	4.0	11.0	14.0	17.0	17.0	15.0
12	5.0	5.0	3.0	8.0	3.0	4.0	9.0	10.0	16.0	17.0	16.0	15.0
13	---	5.0	3.0	4.0	1.0	4.0	10.0	8.0	15.0	20.0	20.0	15.0
14	12.0	5.0	5.0	4.0	1.0	7.0	10.0	9.0	15.0	20.0	19.0	13.0
15	12.0	3.0	4.0	2.0	2.0	4.0	10.0	11.0	10.0	18.0	20.0	13.0
16	12.0	4.0	3.0	3.0	2.0	4.0	9.0	12.0	---	18.0	20.0	14.0
17	10.0	3.0	3.0	3.0	2.0	3.0	11.0	10.0	7.0	17.0	19.0	16.0
18	10.0	3.0	3.0	3.0	2.0	3.0	11.0	10.0	15.0	17.0	18.0	18.0
19	10.0	3.0	2.0	3.0	4.0	3.0	8.0	11.0	16.0	18.0	15.0	17.0
20	10.0	2.0	3.0	3.0	2.0	3.0	8.0	10.0	20.0	19.0	17.0	17.0
21	10.0	2.0	3.0	3.0	2.0	4.0	8.0	11.0	16.0	19.0	18.0	---
22	10.0	1.0	3.0	2.0	3.0	3.0	12.0	11.0	15.0	17.0	19.0	17.0
23	8.0	2.0	3.0	2.0	2.0	3.0	9.0	12.0	16.0	17.0	20.0	16.0
24	8.0	4.0	3.0	2.0	2.0	3.0	10.0	11.0	15.0	16.0	19.0	16.0
25	6.0	3.0	3.0	2.0	1.0	5.0	11.0	14.0	17.0	19.0	19.0	16.0
26	6.0	4.0	3.0	2.0	2.0	3.0	13.0	14.0	17.0	20.0	19.0	15.0
27	6.0	3.0	3.0	2.0	2.0	5.0	---	14.0	18.0	20.0	20.0	10.0
28	6.0	4.0	3.0	4.0	4.0	4.0	9.0	14.0	18.0	18.0	20.0	16.0
29	---	3.0	3.0	3.0	---	4.0	7.0	15.0	16.0	17.0	19.0	16.0
30	4.0	3.0	3.0	3.0	---	7.0	11.0	15.0	17.0	17.0	18.0	15.0
31	4.0	---	3.0	4.0	---	5.0	---	14.0	---	17.0	18.0	---

09049200 WEST TENMILE CREEK AT WHEELER JUNCTION, COLO.

LOCATION.--Lat 39°30'01", long 106°09'56", in NE¼ sec.25, T.6 S., R.79 W., Summit County, at gaging station on left bank 200 ft (61 m) upstream from Union Gulch, 1.4 mi (2.3 km) west of Wheeler Junction, and 6.3 mi (10.1 km) southwest of Frisco.

DRAINAGE AREA.--21 mi² (54 km²), approximately.

PERIOD OF RECORD.--Chemical analyses: November 1973 to September 1974.
Sediment records: October 1973 to September 1974.

EXTREMES, 1973-74.--Sediment concentrations: Maximum daily, 2,000 mg/l May 29; minimum daily, 1 mg/l May 1.
Sediment loads: Maximum daily, 1,620 tons (1,470 t) May 29; minimum daily, 0.03 tons (0.03 t) Sept. 27, 30.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
NOV., 1973												
28...	4.0	6.2	20	0	31	2.6	2.3	.8	106	0	87	10
JAN., 1974												
09...	3.2	7.2	20	0	32	2.6	2.8	.5	110	0	90	4.5
FEB.												
25...	3.0	6.3	50	0	32	2.9	2.5	.5	110	0	90	4.6
APR.												
04...	3.1	6.4	80	0	35	3.1	3.3	1.0	117	0	96	4.5
MAY												
14...	70	4.8	80	30	16	1.5	1.4	.6	54	0	44	3.9
JUNE												
11...	96	5.0	20	50	16	1.1	1.3	.4	53	0	43	3.5
JULY												
24...	27	5.6	70	0	24	2.0	1.5	.4	78	0	64	3.8
AUG.												
25...	8.4	5.6	40	0	29	1.7	2.8	.5	97	0	80	4.5
SEP.												
22...	6.4	5.5	40	0	31	2.9	2.0	.4	103	--	85	5.3

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
NOV., 1973											
28...	2.3	.1	.19	.02	108	88	1	.1	178	8.0	.0
JAN., 1974											
09...	2.7	.1	.23	.01	108	91	0	.1	190	7.9	.0
FEB.											
25...	1.8	.1	.13	.00	106	92	2	.1	192	7.8	.0
APR.											
04...	3.4	.1	.12	.00	115	100	4	.1	205	8.0	.0
MAY											
14...	1.7	.1	.06	.01	57	46	2	.1	96	7.7	4.0
JUNE											
11...	.8	.1	.04	.00	55	44	1	.1	94	7.8	8.0
JULY											
24...	.9	.0	.01	.01	77	68	4	.1	133	7.6	8.0
AUG.											
25...	1.4	.1	.03	.01	94	79	0	.1	164	7.8	10.5
SEP.											
22...	1.8	.0	11	.00	148	89	5	.1	175	--	8.5

09049200 WEST TENMILE CREEK AT WHEELER JUNCTION, COLO.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	9.0	12	.29	6.1	12	.20	4.0	12	.13
2	8.8	12	.29	6.6	12	.21	4.0	12	.13
3	8.4	12	.27	5.3	12	.17	4.1	12	.13
4	8.1	12	.26	5.4	12	.17	4.1	12	.13
5	7.8	12	.25	5.0	12	.16	4.0	12	.13
6	7.8	12	.25	5.0	12	.16	3.7	12	.12
7	7.4	12	.24	5.0	12	.16	3.8	12	.12
8	6.6	12	.21	5.0	12	.16	3.7	12	.12
9	6.8	12	.22	5.0	12	.16	3.7	12	.12
10	9.0	12	.29	5.0	12	.16	3.7	12	.12
11	7.8	12	.25	5.0	12	.16	3.7	12	.12
12	7.8	12	.25	5.0	12	.16	3.6	12	.12
13	8.1	12	.26	5.0	12	.16	3.6	12	.12
14	7.8	12	.25	5.0	12	.16	3.6	12	.12
15	7.4	12	.24	5.0	12	.16	3.6	12	.12
16	6.6	12	.21	4.5	12	.15	3.6	12	.12
17	6.8	12	.22	4.5	12	.15	3.6	12	.12
18	6.4	12	.21	4.5	12	.15	3.6	12	.12
19	6.4	12	.21	4.5	12	.15	3.6	12	.12
20	5.9	12	.19	4.5	12	.15	3.6	12	.12
21	6.1	12	.20	4.5	12	.15	3.4	12	.11
22	6.1	12	.20	4.0	12	.13	3.4	12	.11
23	5.7	12	.18	4.0	12	.13	3.3	12	.11
24	5.3	12	.17	4.0	12	.13	3.3	12	.11
25	5.0	12	.16	4.0	12	.13	3.3	12	.11
26	4.8	12	.16	4.0	12	.13	3.3	12	.11
27	4.7	12	.15	4.0	12	.13	3.3	12	.11
28	4.8	12	.16	4.0	12	.13	3.3	12	.11
29	5.0	12	.16	4.0	12	.13	3.3	12	.11
30	5.4	12	.17	4.0	12	.13	3.3	12	.11
31	5.8	12	.19	--	--	--	3.3	12	.11

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3.3	12	.11	3.2	6	.05	2.8	6	.05
2	3.3	12	.11	3.2	6	.05	2.7	6	.04
3	3.3	12	.11	3.2	6	.05	2.8	6	.05
4	3.3	12	.11	3.2	6	.05	2.9	6	.05
5	3.3	12	.11	3.2	6	.05	2.9	6	.05
6	3.3	12	.11	3.2	6	.05	2.8	6	.05
7	3.2	12	.10	3.3	6	.05	2.9	6	.05
8	3.2	12	.10	3.3	6	.05	2.9	6	.05
9	3.2	12	.10	3.4	6	.06	2.8	6	.05
10	3.2	48	.41	3.4	6	.06	2.8	6	.05
11	3.2	58	.50	3.3	6	.05	2.9	6	.05
12	3.2	32	.28	3.3	6	.05	2.9	6	.05
13	3.2	32	.28	3.4	6	.06	2.8	6	.05
14	3.2	40	.35	3.3	6	.05	2.8	6	.05
15	3.2	58	.50	3.2	6	.05	2.9	6	.05
16	3.2	60	.52	3.1	6	.05	2.8	6	.05
17	3.2	61	.53	3.1	6	.05	2.8	6	.05
18	3.2	41	.35	3.1	6	.05	2.5	6	.04
19	3.2	21	.18	3.1	6	.05	2.7	6	.04
20	3.3	21	.19	3.1	6	.05	2.7	6	.04
21	3.3	18	.16	3.1	6	.05	2.8	6	.05
22	3.3	6	.05	3.1	6	.05	2.8	6	.05
23	3.3	6	.05	3.1	6	.05	3.0	6	.05
24	3.3	6	.05	3.1	6	.05	3.0	6	.05
25	3.3	6	.05	3.0	6	.05	3.0	6	.05
26	3.3	6	.05	2.8	6	.05	3.0	6	.05
27	3.2	6	.05	2.7	6	.04	3.0	6	.05
28	3.2	6	.05	2.8	6	.05	2.9	6	.05
29	3.2	6	.05	--	--	--	3.0	6	.05
30	3.2	6	.05	--	--	--	3.1	6	.05
31	3.2	6	.05	--	--	--	2.9	6	.05

09049200 WEST TENMILE CREEK AT WHEELER JUNCTION, COLO.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3.0	10	.08	27	1	.07	170	540	248
2	3.1	20	.17	35	3	.28	160	400	173
3	3.1	30	.25	45	5	.61	150	350	142
4	3.1	41	.34	60	11	1.8	140	300	113
5	3.1	74	.62	80	79	17	150	350	142
6	3.1	37	.31	100	170	46	130	450	158
7	3.0	34	.28	115	270	84	110	549	163
8	3.0	29	.23	157	420	178	94	520	132
9	3.1	34	.28	182	690	339	91	570	140
10	3.1	37	.31	172	580	269	111	540	162
11	3.1	30	.25	148	340	136	124	550	184
12	3.1	24	.20	157	420	178	124	410	137
13	3.0	21	.17	111	240	72	140	310	117
14	3.0	40	.32	72	177	34	150	590	239
15	3.0	21	.17	83	200	45	160	400	173
16	3.2	11	.10	163	500	220	170	540	248
17	3.4	22	.20	175	610	288	180	660	321
18	4.2	11	.12	195	840	442	190	780	400
19	4.6	16	.20	169	440	201	180	440	214
20	4.0	5	.05	115	200	62	160	270	117
21	3.6	5	.05	106	200	57	170	360	165
22	3.7	11	.11	113	200	61	150	240	97
23	4.8	5	.06	120	340	110	140	200	76
24	6.4	8	.14	130	430	151	120	180	58
25	8.0	5	.11	150	500	203	110	140	42
26	11	13	.39	180	660	321	100	110	30
27	15	19	.77	230	1600	994	90	93	23
28	22	8	.48	250	1700	1150	80	79	17
29	20	3	.16	300	2000	1620	68	33	6.1
30	23	5	.31	250	1200	810	62	30	5.0
31	--	--	--	200	870	470	--	--	--

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	58	20	3.1	19	67	3.4	6.8	5	.09
2	54	10	1.5	18	43	2.1	7.1	5	.10
3	51	9	1.2	18	23	1.1	7.1	5	.10
4	46	8	.99	18	28	1.4	6.8	5	.09
5	40	8	.86	19	14	.72	6.8	5	.09
6	37	8	.80	15	6	.24	6.8	5	.09
7	35	8	.76	16	7	.30	6.6	5	.09
8	35	8	.76	16	7	.30	6.6	5	.09
9	36	8	.78	17	8	.37	6.6	5	.09
10	35	8	.76	21	9	.51	6.6	5	.09
11	31	8	.67	17	12	.55	6.4	5	.09
12	27	8	.58	14	11	.42	6.6	5	.09
13	26	8	.56	12	17	.55	6.8	5	.09
14	25	8	.54	12	19	.62	6.8	5	.09
15	25	8	.54	11	14	.42	8.1	5	.11
16	29	8	.63	10	10	.27	8.7	24	.56
17	33	8	.71	9.7	8	.21	9.0	16	.39
18	32	8	.69	9.4	6	.15	8.7	12	.28
19	33	8	.71	9.7	8	.21	7.4	6	.12
20	34	8	.73	12	12	.39	6.6	4	.07
21	42	8	.91	9.7	8	.21	6.4	4	.07
22	33	8	.71	9.0	7	.17	6.4	4	.07
23	29	8	.63	8.4	6	.14	6.4	4	.07
24	27	34	2.5	8.4	6	.14	6.4	4	.07
25	26	12	.84	8.4	6	.14	6.1	4	.07
26	24	11	.71	7.8	5	.11	5.9	37	.59
27	24	13	.84	7.8	5	.11	6.1	2	.03
28	24	9	.58	7.4	5	.10	6.8	2	.04
29	24	9	.58	7.1	5	.10	7.1	2	.04
30	22	43	2.6	6.8	5	.09	6.4	2	.03
31	20	26	1.4	6.6	5	.09	--	--	--

09066050 BLACK GORE CREEK NEAR VAIL, COLO.

LOCATION.--Lat 39°37'24", long 106°16'47", in SW¼NE¼ sec.18, T.5 S., R.79 W., Eagle County, at gaging station on left bank 800 ft (344 m) upstream from mouth, 1.9 mi (3.1 km) downstream from mouth of Timber Creek, and 5.4 mi (8.7 km) southeast of Vail.

DRAINAGE AREA.--19 mi^2 (49.2 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: November 1973 to September 1974.
Sediment records: October 1973 to September 1974.

EXTREMES, 1973-74.--Sediment concentrations: Maximum daily, 1,720 mg/l May 30; minimum daily, 1 mg/l May 2, July 29, Aug. 2.
Sediment loads: Maximum daily, 1,290 tons (1,170 t) May 30; minimum daily, 0.03 tons (0.03 t) July 29, Aug. 2.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
NOV., 1973												
29...	4.3	5.9	50	0	32	3.6	2.9	.7	116	0	95	3.6
JAN., 1974												
07...	3.9	6.4	40	0	31	3.6	3.2	.6	117	0	96	4.3
FEB.												
26...	2.9	6.3	50	0	33	3.9	3.5	.9	118	0	97	4.0
APR.												
04...	3.5	5.9	30	0	34	4.0	4.5	.8	116	0	95	4.0
MAY												
14...	74	5.1	80	40	18	2.3	1.6	.5	64	0	53	2.6
JUNE												
11...	144	5.5	30	0	18	2.1	1.7	.5	68	0	56	5.5
JULY												
23...	12	6.2	100	0	27	2.8	2.1	.7	92	0	75	3.6
AUG.												
24...	7.0	6.2	60	0	32	2.9	2.6	.6	114	0	94	3.5
SEP.												
21...	5.5	5.9	60	0	33	4.0	3.2	.6	121	--	99	4.6

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
NOV., 1973											
29...	1.1	.1	.05	.01	107	95	0	.1	189	8.2	--
JAN., 1974											
07...	3.5	.1	.06	.01	111	92	0	.1	232	7.8	.0
FEB.											
26...	2.6	.1	.08	.00	113	98	2	.2	206	8.0	--
APR.											
04...	6.7	.2	.08	.01	118	100	6	.2	216	8.1	.0
MAY											
14...	1.7	.1	.05	.01	64	54	2	.1	115	7.8	3.0
JUNE											
11...	1.5	.1	.03	.01	69	54	0	.1	116	8.1	8.0
JULY											
23...	1.1	.0	.01	.01	89	79	4	.1	155	7.5	13.0
AUG.											
24...	1.5	.1	.01	.00	106	92	0	.1	185	8.3	12.0
SEP.											
21...	2.3	.1	1.7	.00	121	99	0	.1	202	--	9.5

09066050 BLACK GORE CREEK NEAR VAIL, COLO.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4.6	7	.09	4.5	7	.09	4.0	4	.04
2	4.4	7	.08	4.7	7	.09	4.0	4	.04
3	4.4	7	.08	5.0	7	.09	4.0	4	.04
4	4.3	7	.08	6.0	7	.11	4.0	4	.04
5	4.2	7	.08	6.0	7	.11	4.0	4	.04
6	4.2	7	.08	4.1	7	.08	4.0	4	.04
7	4.1	7	.08	4.4	7	.08	4.0	4	.04
8	4.0	7	.08	4.6	7	.09	3.9	4	.04
9	4.1	7	.08	4.5	7	.09	3.9	4	.04
10	4.4	7	.08	4.8	7	.09	3.8	4	.04
11	4.3	7	.08	6.1	7	.12	4.0	4	.04
12	4.2	7	.08	4.9	7	.09	4.0	4	.04
13	4.4	7	.08	4.4	7	.08	4.0	4	.04
14	4.5	7	.09	4.6	7	.09	4.0	4	.04
15	4.4	7	.08	4.5	7	.09	4.2	4	.05
16	4.3	7	.08	4.5	7	.09	4.2	4	.05
17	4.2	7	.08	5.0	7	.09	4.1	4	.04
18	4.1	7	.08	5.0	7	.09	4.1	4	.04
19	4.0	7	.08	4.5	7	.09	4.0	4	.04
20	4.0	7	.08	4.5	7	.09	4.0	4	.04
21	4.0	7	.08	4.5	7	.09	4.1	4	.04
22	4.1	7	.08	4.5	7	.09	4.1	4	.04
23	4.6	7	.09	4.5	7	.09	4.1	4	.04
24	4.4	7	.08	4.4	7	.08	4.0	4	.04
25	4.8	7	.09	4.3	7	.08	4.0	4	.04
26	5.2	7	.10	4.2	7	.08	4.0	4	.04
27	4.7	7	.09	4.2	7	.08	3.9	4	.04
28	4.7	7	.09	4.1	7	.08	3.7	4	.04
29	4.6	7	.09	4.0	4	.04	3.7	4	.04
30	4.5	7	.09	4.0	4	.04	3.6	4	.04
31	4.4	7	.08	--	--	--	3.7	4	.04

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3.7	4	.04	4.4	11	.13	3.0	11	.09
2	3.7	4	.04	4.5	11	.13	3.0	11	.09
3	3.7	4	.04	4.4	11	.13	3.0	11	.09
4	3.5	4	.04	4.3	11	.13	3.0	11	.09
5	3.7	4	.04	4.3	11	.13	3.0	11	.09
6	3.9	4	.04	4.2	11	.12	3.0	11	.09
7	3.9	4	.04	4.1	11	.12	3.0	11	.09
8	4.0	4	.04	3.9	11	.12	3.0	11	.09
9	4.0	4	.04	3.9	11	.12	3.0	11	.09
10	4.1	11	.12	3.8	11	.11	3.0	11	.09
11	4.1	11	.12	3.7	11	.11	3.0	11	.09
12	4.0	11	.12	3.6	11	.11	3.0	11	.09
13	4.1	11	.12	3.4	11	.10	3.0	11	.09
14	4.2	11	.12	3.4	11	.10	3.0	11	.09
15	4.2	11	.12	3.4	11	.10	3.0	11	.09
16	4.2	11	.12	3.3	11	.10	3.0	11	.09
17	4.2	11	.12	3.3	11	.10	3.2	13	.11
18	4.3	11	.13	3.2	11	.10	3.6	13	.13
19	4.4	11	.13	3.2	11	.10	3.3	13	.12
20	4.4	11	.13	3.2	11	.10	3.1	13	.11
21	4.5	11	.13	3.1	11	.09	3.0	13	.11
22	4.6	11	.14	3.0	11	.09	3.0	13	.11
23	4.6	11	.14	3.0	11	.09	3.2	13	.11
24	4.7	11	.14	2.9	11	.09	3.3	13	.12
25	4.6	11	.14	2.8	11	.08	3.3	13	.12
26	4.6	11	.14	2.8	11	.08	3.3	13	.12
27	4.5	11	.13	2.9	11	.09	3.3	13	.12
28	4.6	11	.14	3.0	11	.09	3.5	13	.12
29	4.6	11	.14	--	--	--	3.5	13	.12
30	4.6	11	.14	--	--	--	3.5	13	.12
31	4.7	11	.14	--	--	--	3.5	13	.12

09066050 BLACK GORE CREEK NEAR VAIL, COLO.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	APRIL MEAN DISCHARGE (CFS)	APRIL MEAN CONCENTRATION (MG/L)	APRIL SEDIMENT DISCHARGE (TONS/DAY)	MAY MEAN DISCHARGE (CFS)	MAY MEAN CONCENTRATION (MG/L)	MAY SEDIMENT DISCHARGE (TONS/DAY)	JUNE MEAN DISCHARGE (CFS)	JUNE MEAN CONCENTRATION (MG/L)	JUNE SEDIMENT DISCHARGE (TONS/DAY)
1	3.5	13	.12	37	3	.30	282	150	114
2	3.5	13	.12	42	1	.11	250	130	88
3	3.5	13	.12	48	5	.65	230	97	60
4	3.5	13	.12	64	5	.86	218	75	44
5	3.5	13	.12	80	5	1.1	224	86	52
6	3.4	13	.12	100	21	5.7	224	86	52
7	3.4	13	.12	120	13	4.2	195	133	70
8	3.2	13	.11	140	23	8.7	160	50	22
9	3.0	13	.11	180	15	7.3	130	42	15
10	3.1	13	.11	170	32	15	142	74	28
11	3.3	13	.12	160	27	12	156	28	12
12	3.6	13	.13	160	27	12	168	31	14
13	3.8	13	.13	145	20	7.8	182	40	20
14	4.0	13	.14	100	14	3.8	198	65	35
15	4.5	13	.16	103	15	4.2	214	75	43
16	5.8	13	.20	150	24	9.7	230	100	62
17	8.0	5	.11	182	40	20	230	100	62
18	11	10	.30	176	36	17	210	65	37
19	9.4	3	.08	200	91	49	194	50	26
20	9.0	3	.07	190	55	28	180	40	19
21	9.0	3	.07	158	26	11	186	45	23
22	10	3	.08	152	26	11	170	40	18
23	13	3	.11	158	30	13	160	35	15
24	17	3	.14	162	38	17	146	30	12
25	22	8	.48	168	75	34	132	25	8.9
26	28	3	.23	190	160	82	126	20	6.8
27	36	3	.29	232	418	262	132	49	17
28	40	5	.54	234	586	395	119	15	4.8
29	37	8	.80	260	1450	1110	104	31	8.7
30	34	3	.28	278	1720	1290	89	31	7.2
31	--	--	--	285	260	200	--	--	--

DAY	JULY MEAN DISCHARGE (CFS)	JULY MEAN CONCENTRATION (MG/L)	JULY SEDIMENT DISCHARGE (TONS/DAY)	AUGUST MEAN DISCHARGE (CFS)	AUGUST MEAN CONCENTRATION (MG/L)	AUGUST SEDIMENT DISCHARGE (TONS/DAY)	SEPTEMBER MEAN DISCHARGE (CFS)	SEPTEMBER MEAN CONCENTRATION (MG/L)	SEPTEMBER SEDIMENT DISCHARGE (TONS/DAY)
1	76	28	5.7	9.6	4	.10	5.2	4	.06
2	66	30	5.3	9.4	1	.03	5.2	4	.06
3	58	21	3.3	9.2	4	.10	5.2	4	.06
4	48	15	1.9	9.2	4	.10	5.0	4	.05
5	44	12	1.4	9.2	34	.84	4.5	4	.05
6	38	10	1.0	9.2	48	1.2	4.5	4	.05
7	34	8	.73	9.4	34	.86	4.5	4	.05
8	32	7	.60	9.6	12	.31	4.5	4	.05
9	30	6	.49	10	18	.49	4.5	4	.05
10	27	6	.44	12	15	.49	4.5	4	.05
11	20	18	.97	12	16	.52	4.5	4	.05
12	19	8	.41	11	40	1.2	4.5	4	.05
13	16	7	.30	9.4	15	.38	4.7	4	.05
14	15	6	.24	9.0	20	.49	5.0	4	.05
15	12	6	.19	9.0	15	.36	5.2	4	.06
16	12	51	1.7	9.0	14	.34	5.2	4	.06
17	13	27	.95	9.0	10	.24	5.6	4	.06
18	13	14	.49	9.0	6	.15	5.6	4	.06
19	13	10	.35	9.0	12	.29	5.6	4	.06
20	13	12	.42	9.0	6	.15	5.6	4	.06
21	15	18	.73	8.4	9	.20	5.6	4	.06
22	13	12	.42	7.8	3	.06	5.6	4	.06
23	12	12	.39	7.4	6	.12	5.6	4	.06
24	12	8	.26	7.2	7	.14	5.2	4	.06
25	12	8	.26	7.0	9	.17	5.2	4	.06
26	11	4	.12	6.4	13	.22	5.2	4	.06
27	10	6	.16	6.2	10	.17	5.2	4	.06
28	10	4	.11	6.0	12	.19	5.2	4	.06
29	10	1	.03	6.0	12	.19	5.2	4	.06
30	10	2	.05	6.0	6	.10	5.2	4	.06
31	10	4	.11	5.6	11	.17	--	--	--

09066250 GORE CREEK AT VAIL, COLO.

LOCATION.--Lat 39°38'35", long 106°20'44", in NW¼NE¼ sec.9, T.5 S., R.80 W., Eagle County, at gaging station on left bank 650 ft (198 m) north of Vail golf course clubhouse, 1.4 mi (2.3 km) downstream from mouth of Booth Creek, and 1.5 mi (2.4 km) east of Interstate Highway 70 turnoff at Vail.

DRAINAGE AREA.--55 mi^2 (142 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: November 1973 to September 1974.
Sediment records: October 1973 to September 1974.

EXTREMES, 1973-74.--Sediment concentrations: Maximum daily, 280 mg/l July 21; minimum daily, 2 mg/l July 9, 10.
Sediment loads: Maximum daily, 241 tons (219 t) May 29; minimum daily, 0.05 tons (0.05 t) on several days during February.

WATER QUALITY DATA

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
NOV., 1973												
28...	9.1	5.3	40	10	22	3.4	2.1	.7	88	0	72	3.8
JAN., 1974												
07...	7.0	6.1	50	0	23	3.5	2.7	1.0	90	0	74	4.0
FEB.												
27...	6.4	5.5	40	0	24	3.9	2.5	.8	92	0	75	4.3
APR.												
04...	15	5.4	90	0	24	4.0	2.8	.8	88	0	72	4.8
MAY												
14...	310	4.7	50	10	15	2.2	1.6	.3	54	0	44	3.7
JUNE												
11...	294	4.8	20	0	15	2.3	1.5	.5	59	0	48	3.8
JULY												
23...	119	4.2	140	0	12	2.3	1.1	.5	47	0	39	3.0
AUG.												
24...	27	4.8	50	10	19	2.8	1.8	.6	75	0	62	3.4
SEP.												
21...	13	5.0	190	0	24	3.8	2.2	.8	86	--	71	3.0

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
NOV., 1973											
28...	.3	.1	.13	.01	82	69	0	.1	146	8.1	--
JAN., 1974											
07...	1.9	.1	.17	.00	87	72	0	.1	156	7.8	.0
FEB.											
27...	1.3	.2	.10	.00	88	76	1	.1	160	8.2	.0
APR.											
04...	2.5	.5	.14	.02	89	76	4	.1	163	8.0	.0
MAY											
14...	1.4	.1	.09	.01	56	47	2	.1	95	7.8	1.0
JUNE											
11...	1.1	.1	.06	.00	58	47	0	.1	104	7.9	8.0
JULY											
23...	.9	.1	.04	.01	48	39	1	.1	82	6.9	13.0
AUG.											
24...	1.1	.1	.03	.00	71	59	0	.1	129	8.0	10.0
SEP.											
21...	.9	.1	9.2	.00	123	76	5	.1	147	--	12.5

09066250 GORE CREEK AT VAIL, COLO.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	18	5	.24	12	4	.13	8.4	5	.11
2	18	5	.24	14	4	.15	8.8	5	.12
3	18	5	.24	15	5	.20	9.1	5	.12
4	17	5	.23	16	5	.22	8.1	5	.11
5	16	5	.22	13	5	.18	7.8	4	.08
6	16	5	.22	15	5	.20	7.1	4	.08
7	16	5	.22	14	5	.19	7.0	4	.08
8	15	5	.20	14	5	.19	7.0	4	.08
9	15	5	.20	15	5	.20	7.0	4	.08
10	16	5	.22	13	5	.18	7.0	4	.08
11	16	5	.22	13	5	.18	7.0	4	.08
12	16	5	.22	13	5	.18	7.0	4	.08
13	16	5	.22	14	5	.19	7.0	4	.08
14	18	5	.24	13	5	.18	7.0	4	.08
15	18	5	.24	8.8	5	.12	7.0	4	.08
16	18	5	.24	11	5	.15	7.0	4	.08
17	16	5	.22	12	5	.16	7.0	4	.08
18	15	5	.20	11	5	.15	7.0	4	.08
19	15	5	.20	12	5	.16	7.0	4	.08
20	15	5	.20	9.8	5	.13	7.0	4	.08
21	14	4	.15	9.1	5	.12	7.0	4	.08
22	14	4	.15	9.8	5	.13	7.0	4	.08
23	14	4	.15	11	5	.15	7.0	4	.08
24	12	4	.13	11	5	.15	7.0	4	.08
25	11	4	.12	11	5	.15	7.0	4	.08
26	12	4	.13	10	5	.14	7.0	4	.08
27	9.5	4	.10	9.5	5	.13	7.0	4	.08
28	12	4	.13	9.8	5	.13	7.0	4	.08
29	12	4	.13	9.1	5	.12	7.0	4	.08
30	13	4	.14	9.1	5	.12	7.0	4	.08
31	13	4	.14	--	--	--	7.0	4	.08

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	7.0	4	.08	6.7	4	.07	6.4	4	.07
2	7.0	4	.08	6.2	4	.07	6.5	4	.07
3	6.7	4	.07	6.2	4	.07	6.5	4	.07
4	6.5	4	.07	5.9	4	.06	6.5	4	.07
5	6.7	4	.07	5.5	4	.06	6.7	4	.07
6	7.0	4	.08	5.5	4	.06	7.1	4	.08
7	7.0	4	.08	5.5	4	.06	7.1	4	.08
8	7.0	4	.08	5.0	4	.05	7.4	4	.08
9	7.0	4	.08	5.0	4	.05	7.8	4	.08
10	7.0	4	.08	5.5	4	.06	8.4	5	.11
11	7.0	4	.08	5.5	4	.06	8.1	5	.11
12	7.0	4	.08	5.5	4	.06	8.8	5	.12
13	7.0	4	.08	5.5	4	.06	8.8	5	.12
14	7.0	4	.08	5.9	4	.06	9.1	5	.12
15	7.0	4	.08	5.9	4	.06	9.1	5	.12
16	7.1	4	.08	5.7	4	.06	10	5	.14
17	7.1	4	.08	5.7	4	.06	13	5	.18
18	6.7	4	.07	5.9	4	.06	15	5	.20
19	6.7	4	.07	5.7	4	.06	13	5	.18
20	6.7	4	.07	5.5	4	.06	11	5	.15
21	6.7	4	.07	5.0	4	.05	11	5	.15
22	6.5	4	.07	5.0	4	.05	10	5	.14
23	6.5	4	.07	5.0	4	.05	11	5	.15
24	6.0	4	.06	4.7	4	.05	12	5	.16
25	6.5	4	.07	5.5	4	.06	12	5	.16
26	6.5	4	.07	6.0	4	.06	12	5	.16
27	6.5	4	.07	6.4	4	.07	12	5	.16
28	6.5	4	.07	6.4	4	.07	13	5	.18
29	6.5	4	.07	--	--	--	13	5	.18
30	6.4	4	.07	--	--	--	12	5	.16
31	6.7	4	.07	--	--	--	14	5	.19

09066250 GORE CREEK AT VAIL, COLO.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	APRIL MEAN DISCHARGE (CFS)	APRIL MEAN CONCEN-TRATION (MG/L)	APRIL SEDIMENT DISCHARGE (TONS/DAY)	MAY MEAN DISCHARGE (CFS)	MAY MEAN CONCEN-TRATION (MG/L)	MAY SEDIMENT DISCHARGE (TONS/DAY)	JUNE MEAN DISCHARGE (CFS)	JUNE MEAN CONCEN-TRATION (MG/L)	JUNE SEDIMENT DISCHARGE (TONS/DAY)
1	13	5	.18	149	28	11	728	66	130
2	12	5	.16	186	31	16	680	54	99
3	12	5	.16	192	25	13	640	25	43
4	12	5	.16	202	27	15	572	18	28
5	9.8	5	.13	234	33	21	579	17	27
6	12	5	.16	310	39	33	482	14	18
7	11	5	.15	355	42	40	375	5	5.1
8	9.8	5	.13	434	56	66	330	8	7.1
9	12	5	.16	551	56	83	290	4	3.1
10	14	5	.19	530	54	77	290	9	7.0
11	13	5	.18	482	31	40	340	12	11
12	13	5	.18	488	34	45	410	19	21
13	12	5	.16	452	32	39	500	16	22
14	15	8	.32	306	18	15	586	26	44
15	14	10	.38	282	18	14	680	29	53
16	16	12	.52	390	35	37	664	38	74
17	20	15	.81	488	50	66	672	38	74
18	27	8	.58	500	56	76	736	43	96
19	36	8	.78	544	50	73	752	15	30
20	33	5	.45	488	38	50	736	32	70
21	29	3	.23	385	24	25	680	31	64
22	30	15	1.2	375	22	22	640	21	36
23	44	14	1.7	400	25	27	593	16	26
24	56	26	3.9	405	25	27	544	16	24
25	82	29	6.4	452	51	62	470	9	11
26	121	27	8.8	593	64	102	458	15	19
27	136	22	8.1	744	78	157	440	12	14
28	133	15	5.4	820	86	190	400	4	4.3
29	124	13	4.4	940	95	241	345	8	7.5
30	116	15	4.7	860	88	204	315	4	3.4
31	--	--	--	790	68	145	--	--	--

DAY	JULY MEAN DISCHARGE (CFS)	JULY MEAN CONCEN-TRATION (MG/L)	JULY SEDIMENT DISCHARGE (TONS/DAY)	AUGUST MEAN DISCHARGE (CFS)	AUGUST MEAN CONCEN-TRATION (MG/L)	AUGUST SEDIMENT DISCHARGE (TONS/DAY)	SEPTEMBER MEAN DISCHARGE (CFS)	SEPTEMBER MEAN CONCEN-TRATION (MG/L)	SEPTEMBER SEDIMENT DISCHARGE (TONS/DAY)
1	286	3	2.3	50	13	1.8	16	7	.30
2	262	8	5.7	45	23	2.8	18	7	.34
3	230	6	3.7	42	9	1.0	17	7	.32
4	206	3	1.7	40	18	1.9	15	7	.28
5	192	4	2.1	48	13	1.7	14	7	.26
6	171	3	1.4	44	14	1.7	14	7	.26
7	157	3	1.3	45	22	2.7	14	7	.26
8	149	4	1.6	44	24	2.9	13	7	.25
9	141	2	.76	50	15	2.0	12	7	.23
10	136	2	.73	59	60	9.6	13	7	.25
11	128	18	6.2	46	23	2.9	12	7	.23
12	119	3	.96	40	24	2.6	16	7	.30
13	108	6	1.7	39	15	1.6	14	7	.26
14	104	4	1.1	36	14	1.4	12	7	.23
15	106	12	3.4	35	30	2.8	14	7	.26
16	114	12	3.7	33	15	1.3	15	7	.28
17	116	21	6.6	32	14	1.2	15	7	.28
18	104	85	24	31	16	1.3	14	7	.26
19	116	110	34	31	24	2.0	13	7	.25
20	110	85	25	36	29	2.8	13	7	.25
21	168	280	127	31	23	1.9	13	7	.25
22	143	114	44	29	50	3.9	13	7	.25
23	124	51	17	27	50	3.6	13	7	.25
24	110	28	8.3	24	13	.84	13	7	.25
25	90	35	8.5	21	10	.57	13	7	.25
26	80	22	4.8	19	10	.51	12	7	.23
27	75	22	4.5	18	10	.49	11	7	.21
28	75	13	2.6	18	10	.49	12	7	.23
29	70	13	2.5	19	10	.51	12	7	.23
30	65	19	3.3	18	10	.49	12	7	.23
31	60	13	2.1	18	10	.49	--	--	--

09069000 EAGLE RIVER AT GYPSUM, COLO.

LOCATION.--Lat 39°39'00", long 106°57'06", Eagle County, at bridge at Gypsum, about 400 ft (120 m) upstream from Gypsum Creek, about 520 ft (160 m) upstream from bridge on U.S. Highways 6 and 24, and about 550 ft (170 m) upstream from gaging station.

DRAINAGE AREA.--944 mi^2 (2,445 km^2), at gaging station.

PERIOD OF RECORD.--Chemical analyses: April 1947 to September 1974.
Water temperatures: April 1949 to September 1974.

EXTREMES, 1973-74.--Specific conductance: Maximum daily, 1,100 micromhos Feb. 9; minimum daily, 160 micromhos May 10, 29, 30, June 3, 6.
Water temperatures: Maximum, 19°C Aug. 22, 25, Sept. 2; minimum, freezing point on many days during December to March.
Period of record.--Specific conductance: Maximum daily, 1,850 micromhos Aug. 6, 1949; minimum daily (revised), 140 micromhos June 3, 1972.
Water temperatures (1949-74): Maximum 24°C Aug. 24, 1949; minimum, freezing point on many days during winter months.

REMARKS.--Records of discharge are given for Eagle River below Gypsum, Colo.

REVISIONS.--Revised figures for specific conductance for water years 1972 and 1973 superseding those previously published follow water-quality data tables.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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., 1973												
02...	266	8.1	40	16	110	21	51	3.2	176	0	144	210
NOV.												
12...	262	7.6	20	40	100	21	49	3.5	157	7	140	200
JAN., 1974												
07...	262	9.5	30	70	100	21	55	3.0	166	0	136	220
FEB.												
11...	160	9.6	60	50	110	22	75	3.6	176	0	144	240
MAR.												
18...	258	11	30	92	110	27	62	4.2	156	0	128	260
MAY												
06...	1750	6.7	250	140	29	6.8	6.7	1.3	81	0	66	41
JUNE												
03...	2550	5.4	110	30	25	5.4	6.2	.9	67	0	55	34
JULY												
22...	1000	6.5	90	60	52	11	16	1.7	107	0	88	92
AUG.												
19...	258	8.7	30	50	110	19	40	3.0	172	0	141	190

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT., 1973												
02...	56	.2	.02	.02	546	360	220	1.2	834	8.2	10.0	10.3
NOV.												
12...	69	.0	.18	.02	535	340	200	1.2	894	8.4	5.0	11.4
JAN., 1974												
07...	77	.0	.69	.07	571	340	200	1.3	933	7.8	.0	12.2
FEB.												
11...	110	.5	.54	.06	660	370	220	1.7	1060	7.7	.0	11.8
MAR.												
18...	82	.3	.54	.01	636	390	260	1.4	995	7.8	5.5	10.0
MAY												
06...	6.8	.1	.19	.01	140	100	34	.3	235	7.7	7.5	9.4
JUNE												
03...	6.7	1.2	.09	.02	118	85	30	.3	205	7.8	8.5	9.8
JULY												
22...	20	.1	.16	.01	253	180	87	.5	434	7.8	16.0	8.2
AUG.												
19...	52	.2	.44	.01	510	350	210	.9	821	8.0	14.0	8.6

09069000 EAGLE RIVER AT GYPSUM, COLO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	560	1000	950	750	850	900	750	420	160	340	750	850
2	560	950	1000	1000	1000	900	750	500	160	340	700	850
3	900	950	1000	900	1000	900	800	440	140	360	700	750
4	900	1050	900	750	1000	900	750	440	180	340	750	700
5	950	950	900	750	950	950	800	460	160	400	750	750
6	900	1000	1000	750	1000	900	750	400	170	400	700	750
7	900	1050	900	750	950	850	650	360	160	420	700	800
8	900	1000	900	900	1000	900	650	400	150	420	700	560
9	900	1000	900	950	950	900	600	380	160	420	750	600
10	900	1000	950	950	950	900	500	380	160	450	750	600
11	950	1000	900	950	950	900	500	380	180	480	750	675
12	950	1050	900	1000	1000	850	500	380	160	480	800	700
13	950	1000	900	900	950	800	440	400	180	480	800	700
14	900	1000	900	750	950	900	450	400	300	480	800	750
15	950	950	900	750	950	750	500	500	300	490	750	700
16	950	950	850	750	950	750	500	380	300	460	800	700
17	900	950	850	950	950	850	420	400	300	500	800	800
18	950	900	750	950	1000	750	500	260	230	500	800	700
19	950	520	750	950	1000	750	500	240	240	540	800	800
20	950	520	750	1000	1000	750	500	220	230	580	750	750
21	950	520	750	1000	1000	800	500	200	260	540	750	600
22	950	900	750	950	1000	750	540	200	260	540	750	600
23	560	950	900	1000	950	750	540	240	260	600	800	750
24	950	800	900	950	950	750	480	260	240	560	750	650
25	950	900	950	950	950	700	400	200	280	600	750	650
26	950	900	900	1000	950	700	380	220	280	600	750	700
27	1000	800	750	950	950	650	410	200	300	600	800	750
28	1000	800	900	950	1000	750	460	200	340	650	800	750
29	900	800	750	750	9000	750	460	200	340	650	750	750
30	900	520	750	750	---	750	440	180	340	650	850	700
31	950	---	750	750	---	750	---	180	---	700	850	---

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	750	800	900	900	850	800	900	560	380	220	500	700
2	700	750	850	700	850	850	900	580	240	200	500	725
3	750	700	900	900	850	850	900	600	240	200	540	750
4	750	700	900	900	900	850	900	650	280	220	520	750
5	750	750	850	850	850	900	900	560	290	240	500	750
6	800	750	850	850	800	900	900	420	290	240	480	750
7	750	750	900	900	900	900	850	460	300	240	440	800
8	750	750	800	850	850	900	850	480	240	260	460	850
9	750	750	800	850	850	900	900	520	180	260	480	850
10	650	750	650	800	950	950	900	440	180	260	500	850
11	700	900	700	800	850	950	900	360	180	260	570	850
12	600	750	900	900	850	950	900	260	180	260	560	800
13	750	800	850	800	850	950	900	240	180	280	560	800
14	700	800	800	800	850	850	900	240	160	300	600	800
15	750	750	700	800	900	850	900	240	200	320	580	850
16	650	800	950	900	900	950	750	220	220	320	600	850
17	600	750	950	850	950	950	800	240	200	340	600	850
18	580	900	900	800	900	900	800	200	240	360	600	850
19	600	800	900	800	900	900	800	200	260	340	580	850
20	600	800	900	800	900	950	800	180	260	320	600	850
21	600	800	850	800	900	850	800	180	240	340	610	900
22	600	800	850	900	950	950	800	200	240	380	600	900
23	650	950	850	900	900	900	800	220	200	420	605	950
24	650	800	850	950	900	950	750	280	190	460	600	950
25	650	800	850	950	800	950	750	240	200	460	600	900
26	650	900	850	850	850	900	750	240	160	480	625	900
27	700	800	850	850	850	850	800	240	160	460	625	900
28	700	700	900	900	850	850	750	280	160	480	625	900
29	700	900	850	950	---	850	750	300	160	460	650	900
30	700	900	900	900	---	850	600	300	280	500	700	900
31	700	---	900	900	---	900	---	380	---	500	700	---

09069000 EAGLE RIVER AT GYPSUM, COLO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	900	950	1000	1050	1000	1000	900	340	170	320	600	950
2	900	900	950	1050	900	1000	950	300	200	300	625	950
3	900	900	950	1000	1050	1000	1000	280	160	300	625	950
4	850	900	950	1000	1000	950	950	260	240	400	650	950
5	850	850	1000	1000	1000	1030	1000	260	200	400	650	1000
6	900	900	1050	1050	1050	1030	1000	240	160	420	650	1000
7	900	850	1050	950	1050	1030	950	200	260	400	700	1000
8	900	850	1000	950	1050	1030	950	200	280	420	700	1000
9	900	850	1000	900	1100	1030	1000	180	320	420	700	1000
10	900	800	1000	900	1050	1030	950	160	320	460	650	1000
11	900	900	1050	900	1000	1030	950	200	300	440	600	1000
12	900	900	1000	900	1000	1030	950	200	300	460	650	1000
13	850	900	1050	950	1000	1030	950	180	260	480	700	1000
14	850	900	1000	925	1000	1030	950	240	240	480	700	1000
15	850	900	950	1000	1000	1030	1000	260	200	500	800	1000
16	800	950	950	1000	1030	1000	1000	260	200	500	725	1000
17	800	950	1050	900	1000	1000	1000	200	200	500	725	1000
18	850	950	950	900	1000	950	850	200	215	500	725	1000
19	850	950	950	900	1000	1000	750	200	220	560	700	950
20	850	900	1050	1000	1000	950	675	180	200	520	800	950
21	850	950	1050	950	1000	1000	700	180	200	460	800	1000
22	850	950	1050	950	1050	1030	750	220	200	460	800	1000
23	850	950	1000	1000	1030	1030	700	240	240	420	800	950
24	900	950	1000	1050	1000	1000	560	260	240	500	900	1050
25	900	950	950	1000	1030	1030	560	180	230	500	850	1050
26	900	950	850	1030	1030	1000	420	240	260	540	900	1050
27	1000	900	850	900	1000	1030	340	260	250	560	925	1050
28	950	1000	950	950	1000	950	380	180	260	520	925	950
29	950	1000	1000	950	---	950	380	160	280	560	900	1000
30	950	900	975	1000	---	1000	380	160	300	580	900	1000
31	950	---	1050	1000	---	850	---	180	---	600	925	---

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	6.5	3.0	1.0	1.5	2.0	4.0	10.0	7.0	17.0	14.0	16.0
2	8.0	3.0	3.0	0.5	1.0	2.5	5.0	9.0	10.5	15.0	14.0	19.0
3	9.0	5.0	2.0	0.0	1.5	1.0	4.0	9.0	7.0	11.0	12.0	10.5
4	7.0	6.0	1.0	0.0	0.5	0.0	3.5	9.5	9.0	10.5	13.0	10.0
5	8.0	3.0	1.0	0.0	0.0	0.0	8.0	10.5	7.5	11.0	13.5	11.0
6	12.0	5.0	0.5	0.5	0.0	0.5	8.5	10.0	7.0	12.0	14.0	11.5
7	13.0	8.0	1.0	0.0	0.0	1.5	9.0	7.0	6.0	15.5	14.5	11.0
8	7.0	5.0	2.0	0.0	0.0	1.5	8.0	7.0	7.0	17.0	13.5	10.0
9	8.0	9.0	1.5	0.0	0.0	1.5	6.0	9.0	6.0	18.5	14.5	10.0
10	7.0	7.0	1.0	0.5	1.5	3.0	5.0	9.5	6.0	13.0	11.0	13.0
11	11.0	7.0	0.0	0.0	0.0	4.0	6.0	6.0	9.0	14.0	12.0	12.0
12	6.0	8.0	1.0	0.5	0.0	5.5	5.0	9.0	8.5	13.0	11.0	11.5
13	7.0	8.0	0.5	1.0	1.5	1.5	5.0	7.0	10.0	18.0	12.0	9.5
14	8.0	5.0	1.0	0.0	1.0	5.0	7.0	5.0	12.5	13.5	12.5	13.5
15	9.0	5.0	2.0	1.0	1.0	4.5	7.0	10.0	9.5	13.0	15.0	13.0
16	6.5	5.0	1.0	1.0	1.0	8.0	8.0	8.0	10.0	14.0	12.0	16.0
17	8.0	5.0	0.5	0.5	1.0	10.0	7.0	7.5	10.0	15.0	13.0	11.0
18	6.0	4.0	1.0	1.0	0.0	5.0	9.0	10.5	9.0	13.0	13.5	10.5
19	10.0	5.0	0.0	0.5	0.0	8.0	9.5	10.0	12.5	14.0	13.0	12.5
20	8.5	3.5	0.5	1.0	1.5	3.0	10.0	5.0	9.0	15.0	12.0	11.0
21	11.0	2.5	0.5	0.0	0.0	0.0	11.0	5.0	10.0	14.0	12.0	10.0
22	7.0	2.0	1.0	0.0	2.0	1.5	8.0	6.0	9.0	14.0	19.0	10.0
23	7.0	3.0	1.5	0.0	1.0	4.0	9.0	7.0	10.0	13.0	12.0	9.0
24	9.0	4.0	1.5	1.0	2.0	6.5	11.5	10.0	10.0	13.0	13.0	11.0
25	7.5	3.0	1.5	0.0	1.0	3.5	8.0	7.0	10.0	13.5	19.0	16.0
26	8.5	2.5	0.0	1.0	0.0	5.0	9.0	7.0	11.5	18.0	12.0	12.0
27	7.0	2.0	0.0	1.0	2.5	8.0	5.5	8.0	12.0	15.5	12.0	8.5
28	9.0	1.0	1.0	0.0	2.0	6.5	9.5	9.0	11.5	17.0	13.0	17.0
29	6.0	1.0	0.5	0.0	---	6.0	8.0	7.5	11.0	14.0	14.0	10.0
30	5.5	2.5	1.5	0.0	---	10.0	7.0	6.5	16.0	14.0	13.0	---
31	5.0	---	1.0	0.0	---	6.0	---	10.0	---	14.0	11.5	---

09071100 COLORADO RIVER NEAR GLENWOOD SPRINGS, COLO.
(Irrigation network station)

LOCATION.--Lat 39°34'12", long 107°13'34", Garfield County, at Shoshone powerplant, 6 mi (10 km) upstream from Glenwood Springs and 6.5 mi (10.5 km) upstream from Roaring Fork River.

DRAINAGE AREA.--4,560 mi² (11,810 km²), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1941 to September 1974.
Water temperatures: May 1949 to September 1974.

EXTREMES, 1973-74.--Specific conductance: Maximum daily, 900 micromhos Jan. 5; minimum daily, 190 micromhos May 12, 13.
Water temperatures: Maximum, 20°C July 12, 13, 14, 26, Aug. 7; minimum, 1°C on many days during December to February.
Period of record.--Specific conductance: Maximum daily, 2,260 micromhos Aug. 10, 1947; minimum daily, 153 micromhos May 24, 1948.
Water temperatures (1949-74): Maximum, 22°C July 31, 1954, Aug. 19, 1955; minimum, freezing point on many days during winter months.

REMARKS.--Discharges obtained by subtracting the daily mean flow in Roaring Fork River at Glenwood Springs from the daily mean flow in Colorado River below Glenwood Springs.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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., 1973												
02...	2220	8.8	30	16	52	11	51	2.5	122	0	100	88
NOV.												
12...	1590	9.3	20	10	51	11	51	3.3	123	0	101	89
JAN., 1974												
07...	1780	11	50	30	59	12	65	2.9	133	0	109	93
FEB.												
11...	1570	11	110	8	56	12	74	2.7	131	0	107	91
MAR.												
19...	2740	12	60	21	49	13	47	3.6	117	0	96	110
MAY												
07...	10400	9.8	240	40	28	6.4	11	1.9	92	0	75	34
JUNE												
04...	10500	8.4	80	10	27	5.7	14	1.2	80	0	66	29
JULY												
23...	5900	10	50	10	48	8.4	22	2.1	109	0	89	78
AUG.												
20...	2150	9.4	20	10	57	11	25	2.5	127	0	104	88

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT., 1973												
02...	71	.3	.05	.03	345	180	75	1.7	576	8.0	11.0	9.0
NOV.												
12...	71	.3	.02	.02	347	170	72	1.7	613	8.1	5.0	10.4
JAN., 1974												
07...	95	.3	.22	.01	405	200	88	2.0	708	7.8	1.0	12.4
FEB.												
11...	110	.5	.26	.02	423	190	82	2.3	746	7.9	.5	12.4
MAR.												
19...	58	.5	.28	.09	352	180	80	1.5	592	7.6	6.0	10.0
MAY												
07...	12	.2	.19	.02	150	96	21	.5	254	7.8	9.5	9.2
JUNE												
04...	16	1.3	.06	.02	142	91	25	.6	252	7.7	10.5	9.3
JULY												
23...	26	.2	.07	.00	249	150	65	.8	429	7.8	16.0	8.2
AUG.												
20...	26	.3	.08	.00	282	190	83	.8	476	8.2	16.0	8.4

09071100 COLORADO RIVER NEAR GLENWOOD SPRINGS, COLO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	520	540	560	630	630	600	520	320	215	320	490	570
2	520	490	560	760	610	590	590	280	220	380	490	570
3	510	500	560	790	620	590	570	280	230	400	590	540
4	510	520	600	830	650	600	540	260	250	430	---	550
5	---	500	630	900	630	650	610	260	240	450	540	550
6	510	520	750	740	620	640	580	235	250	---	540	550
7	520	510	720	620	630	610	570	220	280	460	510	550
8	520	520	650	580	680	590	590	210	280	460	590	550
9	520	510	630	590	700	580	590	200	310	470	570	---
10	520	530	660	630	710	550	570	200	310	460	530	540
11	510	500	700	640	740	560	560	200	300	460	530	550
12	510	520	660	630	---	560	550	190	290	470	550	540
13	510	520	630	600	---	570	550	190	280	460	570	520
14	500	510	620	600	700	550	550	200	260	440	600	530
15	500	520	630	610	700	540	550	220	240	430	600	530
16	500	520	640	640	690	530	550	230	230	450	600	530
17	510	530	650	640	640	570	560	200	220	450	600	540
18	500	530	560	640	700	540	560	210	220	440	630	580
19	500	520	650	640	620	550	530	200	210	470	650	580
20	530	510	710	590	640	570	490	200	220	450	630	580
21	---	560	770	640	590	590	490	215	200	590	590	570
22	520	560	730	610	600	600	510	220	200	490	570	570
23	520	560	650	640	630	580	510	230	210	390	590	---
24	510	560	610	700	630	550	470	235	210	380	600	580
25	530	560	650	700	630	550	430	240	220	400	600	590
26	530	550	660	710	710	530	370	230	230	430	600	600
27	540	595	750	700	700	520	310	205	240	450	580	580
28	510	560	690	700	620	500	305	205	250	470	630	590
29	520	540	670	640	---	520	320	205	270	480	630	600
30	510	530	620	610	---	520	330	200	310	470	600	600
31	510	---	---	630	---	550	---	200	---	470	560	---

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.0	7.0	2.0	1.0	1.0	2.0	7.0	11.0	12.0	17.0	19.0	18.0
2	12.0	6.0	3.0	1.0	1.0	2.0	6.0	10.0	13.0	17.0	17.0	17.0
3	13.0	5.0	3.0	1.0	1.0	2.0	6.0	10.0	12.0	18.0	17.0	16.0
4	13.0	5.0	2.0	1.0	1.0	2.0	7.0	10.0	12.0	18.0	---	16.0
5	---	6.0	2.0	1.0	1.0	2.0	7.0	11.0	10.0	17.0	19.0	16.0
6	12.0	6.0	2.0	1.0	1.0	4.0	8.0	11.0	10.0	---	19.0	16.0
7	12.0	7.0	1.0	1.0	1.0	3.0	8.0	11.0	10.0	18.0	20.0	16.0
8	11.0	8.0	1.0	1.0	1.0	4.0	8.0	12.0	9.0	18.0	18.0	16.0
9	10.0	8.0	1.0	2.0	1.0	4.0	9.0	11.0	11.0	19.0	15.0	---
10	10.0	7.0	1.0	2.0	1.0	3.0	9.0	10.0	12.0	19.0	16.0	18.0
11	10.0	7.0	1.0	2.0	1.0	4.0	7.0	10.0	13.0	19.0	17.0	16.0
12	9.0	7.0	1.0	2.0	---	5.0	8.0	9.0	14.0	20.0	17.0	15.0
13	9.0	8.0	1.0	1.0	---	5.0	8.0	9.0	15.0	20.0	18.0	15.0
14	9.0	7.0	1.0	1.0	1.0	5.0	8.0	9.0	15.0	20.0	18.0	14.0
15	10.0	5.0	1.0	1.0	1.0	5.0	9.0	9.0	14.0	19.0	19.0	14.0
16	11.0	5.0	1.0	1.0	1.0	5.0	10.0	11.0	14.0	19.0	19.0	15.0
17	11.0	5.0	1.0	1.0	1.0	7.0	11.0	10.0	14.0	19.0	19.0	15.0
18	11.0	5.0	1.0	1.0	1.0	7.0	12.0	11.0	15.0	19.0	19.0	15.0
19	11.0	5.0	1.0	1.0	1.0	7.0	11.0	10.0	15.0	19.0	17.0	16.0
20	10.0	5.0	1.0	1.0	1.0	7.0	9.0	9.0	15.0	19.0	18.0	16.0
21	---	4.0	1.0	1.0	1.0	6.0	9.0	10.0	16.0	19.0	18.0	15.0
22	10.0	3.0	1.0	1.0	1.0	5.0	10.0	10.0	16.0	18.0	18.0	16.0
23	9.0	3.0	1.0	1.0	1.0	5.0	11.0	10.0	16.0	18.0	18.0	---
24	9.0	3.0	1.0	1.0	1.0	5.0	10.0	10.0	17.0	17.0	18.0	15.0
25	8.0	3.0	1.0	1.0	1.0	6.0	11.0	11.0	16.0	19.0	18.0	15.0
26	8.0	3.0	1.0	1.0	1.0	7.0	11.0	12.0	17.0	20.0	18.0	15.0
27	7.0	2.0	1.0	1.0	1.0	9.0	10.0	12.0	17.0	19.0	18.0	13.0
28	8.0	2.0	1.0	1.0	2.0	9.0	9.0	12.0	17.0	18.0	18.0	12.0
29	7.0	2.0	2.0	1.0	---	8.0	9.0	12.0	17.0	18.0	18.0	12.0
30	6.0	2.0	1.0	1.0	---	9.0	10.0	12.0	17.0	19.0	18.0	12.0
31	7.0	---	---	1.0	---	7.0	---	12.0	---	19.0	18.0	---

09093700 COLORADO RIVER NEAR DE BEQUE, COLO.

LOCATION.--Lat 39°21'45", long 108°09'07", in NE¼SW¼ sec.7, T. 8 S., R.96 W., Mesa County, at gaging station, on left bank 3.0 mi (4.8 km) downstream from Alkali Creek and 3.8 mi (6.1 km) northeast of De Beque.

DRAINAGE AREA.--7,370 mi^2 (19,088 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1973 to September 1974.
Water temperatures: August 1973 to September 1974.

EXTREMES, August 1973 to September 1974.--Specific conductance: Maximum daily, 1,100 micromhos on several days during September 1973 and January 1974; minimum daily, 270 micromhos May 30.
Water temperatures: Maximum, 22°C Aug. 20, 1973, July 22, 1974; minimum, freezing point on many days during December to February.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
NOV., 1973												
21...	2110	8.9	40	10	70	18	110	3.6	156	4	135	130
JAN., 1974												
14...	1940	11	10	20	70	16	120	4.3	166	0	136	140
FEB.												
15...	1740	7.8	40	33	73	16	120	4.1	163	0	134	140
MAR.												
21...	2540	9.7	40	43	66	16	89	4.4	147	0	121	130
MAY												
03...	7040	10	60	0	41	8.9	34	2.4	116	0	95	55
JUNE												
07...	10700	8.0	40	0	36	7.3	25	1.6	100	0	82	47
JULY												
25...	4990	10	40	0	53	11	50	2.7	135	0	111	85
AUG.												
22...	2180	8.5	20	0	56	17	110	4.4	152	0	125	130

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
NOV., 1973												
21...	150	.2	.20	.05	573	250	110	3.0	988	8.4	4.0	11.3
JAN., 1974												
14...	170	.2	.30	.02	615	240	100	3.4	1090	7.8	.0	11.8
FEB.												
15...	160	.7	.23	.01	603	250	110	3.3	1070	7.9	.0	11.9
MAR.												
21...	120	.3	.38	.02	510	230	110	2.6	902	7.7	5.0	10.5
MAY												
03...	43	.3	.31	.02	253	140	44	1.3	448	7.8	9.5	9.2
JUNE												
07...	31	.1	.15	.01	206	120	38	1.0	371	8.0	10.0	9.4
JULY												
25...	67	.2	.14	.02	346	180	67	1.6	608	8.0	17.5	8.1
AUG.												
22...	150	.3	.03	.01	551	210	85	3.3	977	8.2	16.5	9.0

09093700 COLORADO RIVER NEAR DE BEQUE, COLO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1000	1000	950	1080	1080	1000	830	500	265	460	750	1000
2	1000	1000	975	1080	1080	1000	830	460	300	480	800	1000
3	1000	1000	980	1080	1080	1000	850	425	320	530	800	1000
4	975	1000	980	1100	1080	1000	860	400	340	580	800	1000
5	1000	1000	980	1100	1080	980	875	380	350	620	820	1020
6	1000	1000	980	1100	1080	980	900	360	340	620	850	1000
7	975	1000	980	1100	1080	980	900	340	---	675	860	1000
8	1030	1000	1000	1100	1050	980	900	330	400	650	870	1000
9	1000	1000	1000	1100	1050	975	900	300	420	650	870	1000
10	950	1000	1000	1000	1050	975	900	280	440	700	800	1000
11	1000	1000	1000	1080	1050	975	900	280	440	680	800	1000
12	1000	1000	1000	1080	1050	975	875	290	420	700	820	1000
13	950	1000	1000	1080	1030	975	850	280	390	700	820	975
14	950	1000	1000	1080	1030	975	850	300	380	725	850	950
15	950	1000	1000	1080	1030	950	900	300	370	700	875	950
16	980	1000	1030	1080	1030	950	900	340	330	700	900	950
17	980	1000	1030	1080	1030	950	900	320	330	750	925	950
18	1000	980	1030	1100	1000	950	900	310	330	725	925	975
19	1000	975	1050	1100	1000	950	880	310	320	700	900	1000
20	1000	1000	1050	1100	1000	925	850	310	310	875	950	1030
21	1000	1000	1050	1080	1000	925	850	310	310	750	1000	1050
22	1000	1000	1050	1080	1000	925	850	340	320	750	950	1050
23	1000	980	1050	1080	1000	900	780	350	320	600	950	1030
24	1000	980	1050	1080	1000	900	700	330	325	580	950	1000
25	1000	975	1050	1080	1000	900	660	360	330	620	975	1000
26	1000	975	1050	1080	1000	900	640	330	350	650	975	1000
27	1000	975	1050	1080	1000	900	625	310	360	680	1050	1000
28	1000	960	1050	1080	1000	875	460	280	380	700	1050	1000
29	1030	960	1050	1080	---	875	450	280	390	780	1000	1030
30	1030	960	1070	1080	---	850	460	270	420	750	1000	1030
31	1000	---	1070	1080	---	850	---	280	---	760	1000	---

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.0	8.0	3.0	0.0	0.0	2.0	5.0	12.0	13.5	19.0	21.0	19.0
2	14.0	8.0	2.0	0.0	0.0	3.0	5.0	11.0	13.0	19.0	19.0	19.0
3	14.0	8.0	2.0	0.0	0.0	4.0	5.0	13.0	13.0	19.0	19.0	19.0
4	14.0	7.0	1.0	0.0	0.0	5.0	8.0	12.0	13.5	19.0	19.0	18.0
5	13.0	7.0	1.0	0.0	0.0	6.0	10.0	12.0	13.0	19.0	17.0	18.0
6	13.0	6.5	1.0	0.0	0.0	6.0	9.0	13.0	11.0	20.0	20.0	18.0
7	13.0	7.0	1.0	0.0	0.0	7.0	10.0	13.0	---	20.0	20.0	18.0
8	11.0	7.0	1.0	0.0	0.0	7.0	10.0	12.0	10.0	19.0	19.0	18.0
9	11.0	7.0	1.0	0.0	0.0	8.0	9.0	13.0	13.0	19.0	18.0	19.0
10	12.0	7.0	2.0	0.0	0.0	8.0	9.0	12.0	14.5	20.0	19.0	19.0
11	12.0	7.0	2.0	0.0	0.0	9.0	9.0	9.5	15.5	21.0	19.0	19.0
12	12.0	7.0	2.0	0.0	0.0	9.0	8.0	11.0	15.0	21.0	19.5	17.0
13	12.0	7.0	2.0	0.0	0.0	9.0	8.0	10.5	16.0	21.5	21.0	17.0
14	12.0	7.0	2.0	0.0	0.0	9.0	8.0	10.0	16.0	21.0	21.0	15.5
15	12.0	6.0	2.0	0.0	0.0	8.0	8.0	8.0	16.0	20.0	21.0	16.0
16	12.0	6.0	1.0	0.0	0.0	8.0	8.0	13.0	15.0	20.0	21.0	17.0
17	12.0	5.0	1.0	0.0	0.0	7.0	9.0	12.0	15.5	21.0	21.0	17.0
18	12.0	5.0	1.0	0.0	0.0	7.0	9.0	12.0	16.0	21.0	21.0	17.0
19	12.0	5.0	0.0	0.0	0.0	7.0	11.0	11.0	16.0	21.0	19.0	17.0
20	10.0	5.0	0.0	0.0	0.0	7.0	9.0	10.5	16.0	18.0	19.0	17.0
21	12.0	5.0	0.0	0.0	0.0	7.0	10.0	11.0	16.0	21.0	19.0	17.0
22	12.0	4.0	0.0	0.0	0.5	7.0	11.0	11.0	17.0	21.0	20.0	17.0
23	10.5	4.0	0.0	0.0	0.5	7.0	11.0	12.0	17.0	20.0	20.0	17.0
24	11.0	4.0	0.0	0.0	1.0	7.0	13.0	12.0	18.0	17.5	20.0	17.0
25	11.0	4.0	0.0	0.0	1.0	7.0	13.0	13.0	18.0	20.0	20.0	17.0
26	10.0	4.0	0.0	0.0	1.0	7.0	11.0	14.0	18.0	20.0	20.0	16.0
27	8.0	2.0	0.0	0.0	1.0	7.0	10.0	13.5	19.0	18.0	20.0	11.0
28	8.0	2.0	0.0	0.0	1.0	6.0	9.0	13.0	19.0	18.0	20.0	11.0
29	8.0	3.0	0.0	0.0	---	6.0	9.5	13.0	19.0	21.0	20.0	14.0
30	8.0	3.0	0.0	0.0	---	6.0	7.5	13.0	19.0	22.0	19.0	14.0
31	8.0	---	0.0	0.0	---	6.0	---	12.5	---	20.0	19.0	---

09095500 COLORADO RIVER NEAR CAMEO, COLO.

LOCATION.--Lat 39°11'20", long 108°16'56", Mesa County, at Grand Valley project diversion dam, 3.7 mi (6.0 km) upstream from Cameo, 0.4 mi (0.6 km) upstream from Plateau Creek, and 5.9 mi (9.5 km) downstream from gaging station.

DRAINAGE AREA.--8,050 mi^2 (20,850 km^2), approximately (at gaging station).

PERIOD OF RECORD.--Chemical analyses: October 1933 to September 1974.
Water temperatures: April 1949 to September 1974.

EXTREMES, 1973-74.--Specific conductance: Maximum daily, 1,175 micromhos Sept. 28, 29, 30: minimum daily, 275 micromhos May 15, 16, 17, 18, 19.
Water temperatures: Maximum, 20°C on several days during July and August; minimum, freezing point on many days during December to March.
Period of record.--Specific conductance: Maximum daily, 1,860 micromhos June 16, 1964; minimum daily, 244 micromhos July 2, 1947, July 3, 1957.
Water temperatures (1949-74): Maximum, 24°C Aug. 16, 1962; minimum, freezing point on many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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., 1973												
10...	2420	8.8	30	13	71	19	120	4.0	171	1	142	140
NOV.												
21...	2380	7.6	20	30	160	72	43	2.7	168	4	144	580
JAN., 1974												
14...	2140	11	10	0	76	17	120	4.2	173	0	142	150
FEB.												
15...	1940	10	20	25	76	18	130	4.4	171	0	140	160
MAR.												
21...	2720	9.8	40	21	66	17	94	4.3	153	0	126	140
MAY												
10...	15100	8.7	80	10	30	6.4	17	1.8	96	0	79	36
JUNE												
10...	8540	9.2	60	0	41	9.5	35	2.0	116	0	95	64
JULY												
25...	5220	10	40	0	53	11	53	2.9	146	0	120	85
AUG.												
22...	2330	8.4	20	0	72	17	120	4.8	151	4	131	140

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT., 1973												
10...	160	.4	.08	.03	609	260	110	3.3	1040	8.4	10.5	9.6
NOV.												
21...	8.4	.5	.02	.09	957	700	560	.7	1300	8.4	4.0	12.0
JAN., 1974												
14...	170	.2	.33	.02	635	260	120	3.2	1120	7.7	.0	11.8
FEB.												
15...	180	.5	.30	.01	665	260	120	3.5	1150	7.9	.0	12.1
MAR.												
21...	120	.3	.36	.02	529	230	110	2.7	926	7.8	7.0	10.7
MAY												
10...	20	.3	.15	.01	168	100	23	.7	293	7.8	11.0	9.1
JUNE												
10...	42	.3	.19	.02	261	140	46	1.3	452	8.1	11.0	9.6
JULY												
25...	67	.3	.14	.00	355	180	58	1.7	629	7.9	19.5	8.0
AUG.												
22...	160	.3	.02	.00	601	250	120	3.3	1040	8.4	19.0	8.8

09095500 COLORADO RIVER NEAR CAMEO, COLO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1000	1000	1000	950	975	1130	825	500	300	400	750	1000
2	1000	1000	1000	950	975	1130	825	500	300	400	750	1000
3	1000	1000	1000	950	975	1050	825	450	300	450	750	1000
4	1000	1000	1000	950	975	1030	850	425	300	500	750	1000
5	1000	1000	1000	950	975	1030	875	375	350	525	750	1000
6	1000	1000	1000	950	975	1030	875	350	350	550	800	1000
7	1000	1000	1030	975	975	1030	875	325	375	600	800	1000
8	1000	1000	1030	975	975	1050	900	300	400	600	825	1000
9	1000	1000	1030	975	975	1050	900	300	400	600	825	1000
10	1000	1000	1030	975	975	1100	900	300	400	650	900	1000
11	1000	975	1030	975	975	1100	925	300	425	700	900	1000
12	1000	975	1030	975	1000	1000	925	300	425	700	900	975
13	975	975	1050	975	1000	1000	925	300	400	700	950	975
14	975	975	1050	975	1000	1000	925	300	400	700	950	975
15	975	975	1050	975	1050	1000	925	275	375	750	950	975
16	975	975	1100	975	1050	950	925	275	375	750	975	975
17	975	975	1100	975	1050	950	900	275	350	750	975	975
18	975	975	1100	975	1050	950	900	275	350	750	975	975
19	975	950	1100	975	1050	950	900	275	350	725	975	975
20	975	950	1100	975	1050	925	900	300	325	725	975	975
21	975	950	1100	975	1050	925	850	300	325	725	975	1000
22	975	950	1150	975	1050	900	800	300	300	725	975	1000
23	1000	---	1150	975	1100	900	800	300	300	725	975	1050
24	1000	---	1150	975	1100	900	800	300	325	725	1000	1100
25	1000	---	1150	975	1100	875	800	300	325	750	1000	1100
26	1000	---	1150	975	1100	875	800	300	350	750	1000	1150
27	1000	975	1150	975	1100	875	750	300	350	750	1000	1150
28	1000	975	1150	950	1100	875	750	300	350	750	1000	1180
29	1000	1000	1100	950	---	875	600	300	400	750	1000	1180
30	1000	1000	1100	975	---	875	550	300	400	750	1000	1180
31	1000	---	1100	975	---	850	---	300	---	750	1000	---

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.0	7.0	2.0	0.0	0.0	0.0	8.0	10.0	12.0	17.0	20.0	19.0
2	12.0	7.0	2.0	0.0	0.0	0.0	8.0	10.0	12.0	17.0	20.0	18.0
3	12.0	7.0	2.0	0.0	0.0	2.0	8.0	10.0	12.0	17.0	20.0	18.0
4	11.0	7.0	1.0	0.0	0.0	2.0	9.0	10.0	12.0	17.0	20.0	16.0
5	11.0	7.0	1.0	0.0	0.0	2.0	9.0	10.0	12.0	17.0	20.0	16.0
6	11.0	7.0	1.0	0.0	0.0	2.0	9.0	10.0	12.0	17.0	19.0	16.0
7	11.0	7.0	0.0	0.0	0.0	2.0	9.0	10.0	12.0	18.0	19.0	16.0
8	11.0	7.0	0.0	0.0	0.0	3.0	9.0	10.0	12.0	18.0	19.0	16.0
9	11.0	7.0	0.0	0.0	0.0	4.0	9.0	11.0	11.0	18.0	19.0	16.0
10	11.0	7.0	0.0	0.0	0.0	4.0	9.0	12.0	10.0	19.0	19.0	16.0
11	11.0	6.0	0.0	0.0	0.0	4.0	9.0	11.0	10.0	19.0	19.0	15.0
12	11.0	6.0	0.0	0.0	0.0	5.0	9.0	11.0	10.0	20.0	19.0	15.0
13	10.0	6.0	0.0	0.0	0.0	5.0	9.0	11.0	11.0	20.0	19.0	15.0
14	10.0	6.0	0.0	0.0	0.0	5.0	9.0	10.0	12.0	20.0	19.0	14.0
15	10.0	6.0	0.0	0.0	0.0	6.0	9.0	9.0	12.0	20.0	19.0	14.0
16	10.0	6.0	0.0	0.0	0.0	6.0	9.0	9.0	14.0	20.0	19.0	14.0
17	10.0	6.0	0.0	0.0	0.0	6.0	10.0	9.0	14.0	20.0	19.0	14.0
18	10.0	6.0	0.0	0.0	0.0	6.0	10.0	9.0	14.0	20.0	19.0	14.0
19	10.0	5.0	0.0	0.0	0.0	6.0	10.0	9.0	14.0	19.0	19.0	14.0
20	10.0	5.0	0.0	0.0	0.0	6.0	10.0	8.0	14.0	19.0	19.0	14.0
21	10.0	4.0	0.0	0.0	0.0	7.0	10.0	8.0	14.0	19.0	19.0	12.0
22	10.0	4.0	0.0	0.0	0.0	7.0	10.0	8.0	14.0	19.0	19.0	12.0
23	10.0	---	0.0	0.0	0.0	7.0	10.0	8.0	14.0	19.0	19.0	11.0
24	10.0	---	0.0	0.0	0.0	8.0	10.0	9.0	14.0	19.0	19.0	11.0
25	9.0	---	0.0	0.0	0.0	8.0	10.0	9.0	15.0	20.0	19.0	11.0
26	9.0	---	0.0	0.0	0.0	8.0	10.0	9.0	16.0	20.0	19.0	11.0
27	8.0	3.0	0.0	0.0	0.0	8.0	11.0	10.0	16.0	20.0	19.0	11.0
28	8.0	3.0	0.0	0.0	0.0	8.0	11.0	11.0	16.0	20.0	19.0	11.0
29	7.0	2.0	0.0	0.0	---	8.0	11.0	12.0	17.0	20.0	19.0	11.0
30	7.0	2.0	0.0	0.0	---	8.0	10.0	12.0	17.0	20.0	19.0	11.0
31	7.0	---	0.0	0.0	---	8.0	---	12.0	---	20.0	19.0	---

09095530 GOVERNMENT HIGHLINE CANAL NEAR MACK, COLO.

LOCATION.--Lat 39°17'09", long 108°49'46", in NE¼SE¼ sec.12, T.9 S., R.103 W., 6th principal meridian, Mesa County, at gaging station, on right bank 50 ft (15 m) upstream from flume over Mack Wash, 1.1 mi (1.8 km) downstream from headgate of Lateral No. 48, and 4.6 mi (7.4 km) north of Mack.

PERIOD OF RECORD.--Chemical analyses: August 1973 to September 1974.
Water temperatures: October 1973 to September 1974.

EXTREMES, 1973-74.--Specific conductance: Maximum, 1,430 micromhos Sept. 13; minimum, 320 micromhos on several days during May.
Water temperatures: Maximum, 24.0°C July 9; minimum, 7.0°C Sept. 13.

REMARKS.--No flow Nov. 10 to Apr. 13. Daily maximum and minimum specific conductance and temperature data are available in the district office.

WATER QUALITY DATA, AUGUST 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
AUG., 1973												
08...	158	8.6	140	10	59	14	61	2.8	149	0	122	97
MAY , 1974												
28...	150	7.8	40	10	34	8.2	24	1.6	100	0	82	48
AUG.												
12...	134	11	30	0	68	15	90	3.8	163	--	134	130

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
AUG., 1973												
08...	78	.5	.11	.01	395	210	83	1.9	676	7.6	23.0	7.7
MAY , 1974												
28...	31	.3	.11	.01	205	120	37	1.0	355	7.9	16.0	8.5
AUG.												
12...	110	.3	.28	.01	510	230	98	2.6	874	--	20.0	7.5

09095530 GOVERNMENT HIGHLINE CANAL NEAR MACK, COLO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1030	1200	---	---	---	---	---	690	345	440	805	1080
2	1040	---	---	---	---	---	---	660	355	460	820	1060
3	1050	---	---	---	---	---	---	630	365	480	835	1030
4	1060	---	---	---	---	---	---	600	375	510	850	1010
5	1060	---	---	---	---	---	---	570	385	520	865	1010
6	1070	---	---	---	---	---	---	540	395	540	890	991
7	1080	---	---	---	---	---	---	510	410	560	895	982
8	1090	---	---	---	---	---	---	480	420	580	910	975
9	1100	---	---	---	---	---	---	450	430	600	925	960
10	1120	---	---	---	---	---	---	420	440	620	940	1040
11	1100	---	---	---	---	---	---	390	440	640	955	1160
12	1080	---	---	---	---	---	---	360	430	660	970	1200
13	1060	---	---	---	---	---	975	340	430	680	985	1220
14	1040	---	---	---	---	---	975	320	420	700	990	1190
15	1020	---	---	---	---	---	975	320	420	720	1040	1180
16	1000	---	---	---	---	---	975	320	410	740	1070	1190
17	980	---	---	---	---	---	975	320	400	750	1100	1180
18	975	---	---	---	---	---	975	320	390	750	1120	1180
19	990	---	---	---	---	---	950	320	380	760	1090	1150
20	1010	---	---	---	---	---	950	320	370	760	1100	1150
21	1020	---	---	---	---	---	950	320	360	760	1100	1180
22	1020	---	---	---	---	---	925	320	350	760	1120	1200
23	1030	---	---	---	---	---	925	320	340	770	1130	981
24	1050	---	---	---	---	---	900	320	340	770	1080	995
25	1050	---	---	---	---	---	870	320	360	770	1050	1010
26	1050	---	---	---	---	---	840	320	380	770	1050	1020
27	1060	---	---	---	---	---	810	325	380	770	1060	1040
28	1060	---	---	---	---	---	780	325	400	775	1060	1070
29	1070	---	---	---	---	---	750	325	420	775	1070	1050
30	1070	---	---	---	---	---	720	325	440	775	1070	1060
31	1140	---	---	---	---	---	---	325	---	790	1060	---

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.5	---	---	---	---	---	---	13.0	18.5	21.5	21.5	21.0
2	12.0	---	---	---	---	---	---	13.5	19.0	21.0	21.0	21.0
3	11.5	---	---	---	---	---	---	13.5	19.0	21.0	22.0	19.5
4	11.5	---	---	---	---	---	---	14.0	18.5	21.0	22.0	19.5
5	11.5	---	---	---	---	---	---	14.5	17.5	21.0	22.0	19.5
6	11.0	---	---	---	---	---	---	14.5	17.0	21.0	22.0	19.5
7	11.5	---	---	---	---	---	---	15.5	16.5	21.0	22.5	20.0
8	11.0	---	---	---	---	---	---	16.0	15.0	21.5	22.0	20.0
9	11.5	---	---	---	---	---	---	16.0	15.0	22.0	21.5	20.5
10	11.5	---	---	---	---	---	---	16.5	16.5	22.5	21.5	19.5
11	11.0	---	---	---	---	---	---	15.0	17.5	22.5	21.5	18.0
12	10.5	---	---	---	---	---	---	15.0	18.5	21.5	21.5	15.5
13	12.0	---	---	---	---	---	---	14.0	19.5	22.0	22.0	15.0
14	12.0	---	---	---	---	---	8.5	13.5	20.0	22.5	21.5	15.5
15	12.5	---	---	---	---	---	9.5	14.0	20.5	22.5	20.5	15.0
16	13.5	---	---	---	---	---	10.5	14.5	20.0	22.5	20.5	15.0
17	14.0	---	---	---	---	---	12.0	14.0	20.0	22.0	21.0	14.5
18	14.0	---	---	---	---	---	13.0	15.0	20.0	22.5	21.0	15.0
19	14.0	---	---	---	---	---	12.5	14.5	20.0	22.0	21.0	15.5
20	13.5	---	---	---	---	---	11.5	14.5	20.5	22.0	20.5	16.0
21	---	---	---	---	---	---	11.5	14.0	20.0	22.5	20.5	16.0
22	---	---	---	---	---	---	12.5	14.0	20.5	22.5	21.0	16.0
23	---	---	---	---	---	---	13.5	15.5	20.5	22.0	21.0	16.0
24	12.0	---	---	---	---	---	13.5	16.5	21.0	22.0	20.5	16.0
25	---	---	---	---	---	---	14.5	16.5	21.5	21.5	20.5	16.0
26	---	---	---	---	---	---	14.5	18.0	22.0	22.0	21.0	15.5
27	---	---	---	---	---	---	13.5	18.5	22.0	22.0	21.5	14.5
28	---	---	---	---	---	---	14.0	19.5	22.0	22.0	21.5	12.0
29	---	---	---	---	---	---	13.5	19.5	22.5	22.0	21.5	11.0
30	---	---	---	---	---	---	13.0	19.0	21.5	22.0	21.5	11.0
31	---	---	---	---	---	---	---	18.5	---	22.0	21.5	---

09105000 PLATEAU CREEK NEAR CAMEO, COLO.

LOCATION.--Lat 39°11'01", long 108°16'06", in NW¼SW¼ sec.18, T.10 S., R.97 W., Mesa County, at gaging station, on left bank 300 ft (91 m) from State Highway 65, 1.1 mi (1.8 km) upstream from mouth, and 4.0 mi (6.4 km) northeast of Cameo.

DRAINAGE AREA.--592 mi^2 (1,533 km^2).

PERIOD OF RECORD.--Chemical analyses: Water years 1969-71 (partial-record only), October 1971 to September 1974.
Water temperatures: October 1971 to September 1974.

EXTREMES, 1973-74.--Specific conductance: Maximum daily, 1,000 micromhos Oct. 17, Dec. 10; minimum daily, 300 micromhos May 24.
Water temperatures: Maximum, 28°C July 13, 14; minimum, freezing point on several days during December to February.
Period of record.--Specific conductance: Maximum daily, 1,000 micromhos Oct. 17, Dec. 10, 1973; minimum daily, 190 micromhos June 15, 1973.
Water temperatures: Maximum, 28°C July 13, 14, 1974; minimum, freezing point on many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
NOV., 1973												
28...	101	31	130	20	71	44	75	6.0	414	0	340	160
FEB., 1974												
15...	82	27	30	25	55	29	58	4.6	340	0	279	91
MAY												
02...	523	14	60	20	34	11	18	2.3	166	0	136	26
AUG.												
13...	75	33	40	0	48	44	77	7.8	407	0	334	120

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
NOV., 1973												
28...	12	.5	.63	.07	607	360	19	1.7	838	8.3	.0	12.9
FEB., 1974												
15...	8.0	.6	.62	.05	444	260	0	1.6	701	8.3	.0	12.8
MAY												
02...	3.0	.7	.24	.03	192	130	0	.7	317	7.8	9.0	9.8
AUG.												
13...	9.8	.5	.01	.02	541	300	0	1.9	849	8.1	21.0	9.4

09105000 PLATEAU CREEK NEAR CAMEO, COLO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	850	750	750	700	850	750	550	700	420	700	750	700
2	900	450	750	700	900	750	625	650	460	650	800	550
3	700	380	950	700	950	700	690	650	400	650	650	550
4	460	700	950	700	750	750	650	750	460	700	750	650
5	460	750	950	710	750	800	550	600	420	750	800	750
6	590	750	1000	780	700	800	500	600	420	600	650	800
7	490	480	810	650	500	750	650	530	450	600	750	820
8	590	520	810	650	600	725	560	560	450	750	750	750
9	750	450	650	---	625	725	510	600	400	700	750	700
10	650	450	1000	750	750	850	500	500	390	700	700	650
11	750	700	950	---	800	800	650	400	420	700	---	650
12	900	750	950	---	800	850	650	360	400	750	---	650
13	950	750	800	---	950	850	700	500	400	650	---	750
14	950	750	600	---	950	700	650	425	420	650	---	725
15	960	900	950	---	820	750	650	450	460	700	---	750
16	990	900	1000	---	800	750	650	620	460	700	---	740
17	1000	900	950	650	800	600	700	420	520	700	---	740
18	750	700	950	740	710	650	800	325	500	700	---	750
19	940	850	950	---	750	660	450	340	480	700	---	700
20	950	850	750	---	750	680	450	340	500	700	---	750
21	910	350	850	---	750	660	650	350	475	600	---	750
22	900	400	825	---	750	540	640	325	550	650	---	600
23	1000	500	650	---	750	560	700	350	500	600	---	600
24	750	420	950	---	800	550	625	300	550	700	---	600
25	740	580	900	---	900	600	550	340	500	750	---	600
26	700	650	900	---	750	650	625	400	480	650	---	700
27	650	710	950	---	750	750	625	400	500	700	---	650
28	550	750	950	---	710	700	675	390	500	650	---	650
29	750	750	900	---	---	700	575	360	550	750	---	750
30	750	800	900	---	---	560	700	400	525	800	---	600
31	750	---	900	---	---	500	---	400	---	850	---	---

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.0	12.0	4.0	0.0	1.0	10.0	10.0	11.0	15.0	25.0	---	25.0
2	14.0	12.0	3.0	0.0	1.0	10.0	5.0	12.0	15.0	22.0	---	27.0
3	12.0	14.0	3.0	1.0	2.0	9.0	5.0	10.0	17.0	20.0	---	27.0
4	10.0	10.0	1.0	0.0	3.0	9.0	7.0	10.0	20.0	20.0	---	20.0
5	10.0	9.0	1.0	0.0	1.0	7.0	6.0	10.0	20.0	25.0	---	25.0
6	11.0	7.0	2.0	0.0	1.0	7.0	6.0	9.0	21.0	20.0	---	25.0
7	14.0	7.0	5.0	1.0	1.0	7.0	6.0	10.0	19.0	20.0	---	27.0
8	10.0	7.0	4.0	1.0	0.0	7.0	5.0	11.0	12.0	22.0	---	26.0
9	10.0	7.0	4.0	---	0.0	7.0	4.0	12.0	14.0	20.0	---	27.0
10	14.0	7.0	2.0	1.0	0.0	5.0	4.0	9.0	18.0	25.0	---	25.0
11	14.0	5.0	2.0	---	0.0	7.0	5.0	14.0	20.0	25.0	---	25.0
12	12.0	7.0	1.0	---	0.0	8.0	3.0	14.0	20.0	25.0	---	25.0
13	12.0	8.0	1.0	---	1.0	8.0	3.0	10.0	18.0	28.0	---	24.0
14	12.0	8.0	2.0	---	1.0	9.0	5.0	12.0	17.0	28.0	---	25.0
15	11.0	10.0	1.0	---	1.0	10.0	3.0	12.0	17.0	25.0	---	24.0
16	10.0	8.0	0.0	---	2.0	7.0	3.0	9.0	16.0	24.0	---	27.0
17	12.0	8.0	1.0	2.0	4.0	8.0	4.0	12.0	20.0	25.0	---	24.0
18	13.0	7.0	0.0	1.0	2.0	9.0	4.0	12.0	21.0	25.0	---	26.0
19	14.0	7.0	0.0	---	2.0	9.0	6.0	10.0	21.0	22.0	---	22.0
20	15.0	4.0	0.0	---	1.0	9.0	8.0	12.0	21.0	20.0	---	20.0
21	12.0	3.0	1.0	---	1.0	10.0	4.0	14.0	21.0	20.0	---	20.0
22	12.0	4.0	3.0	---	1.0	10.0	4.0	14.0	23.0	10.0	---	20.0
23	12.0	7.0	1.0	---	1.0	10.0	4.0	12.0	24.0	15.0	---	20.0
24	12.0	7.0	1.0	---	3.0	10.0	6.0	11.0	21.0	20.0	---	20.0
25	14.0	7.0	0.0	---	2.0	11.0	8.0	15.0	21.0	22.0	---	15.0
26	13.0	7.0	2.0	---	6.0	12.0	10.0	15.0	20.0	25.0	---	15.0
27	12.0	5.0	1.0	---	6.0	12.0	10.0	20.0	25.0	22.0	---	21.0
28	14.0	4.0	1.0	---	8.0	10.0	11.0	10.0	25.0	25.0	---	22.0
29	11.0	5.0	1.0	---	---	9.0	12.0	15.0	25.0	23.0	---	21.0
30	10.0	5.0	1.0	---	---	10.0	12.0	15.0	27.0	20.0	---	20.0
31	11.0	---	1.0	---	---	10.0	---	19.0	---	23.0	---	---

09106200 LEWIS WASH NEAR GRAND JUNCTION, COLO.

LOCATION.--Lat 39°03'38", long 108°28'38", in NW¼NW¼ sec.22, T.1 S., R.1 E., Ute meridian, Mesa County, at gaging station, on left bank at upstream side of bridge on 31 Rd., 700 ft (210 m) upstream from mouth, and 4.5 mi (7.2 km) east of city hall in Grand Junction.

DRAINAGE AREA.--4.72 mi^2 (12.22 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1973 to September 1974.
Water temperatures: April 1973 to September 1974.

EXTREMES, 1973-74.--Specific conductance: Maximum, 7,820 micromhos Nov. 20, 1973; minimum, 234 micromhos July 6, 1973.
Water temperatures: Maximum, 27.5°C Aug. 22, 1973; minimum, freezing point on many days during December to March.

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

WATER QUALITY DATA, AUGUST 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
AUG., 1973												
07...	18	9.2	470	60	88	26	84	4.1	169	0	139	250
NOV.												
27...	.84	14	1200	450	490	280	380	9.6	398	0	326	2500
FEB., 1974												
19...	1.3	1.5	140	410	290	190	250	18	315	0	258	1500
MAY												
28...	16	7.8	50	30	53	17	35	2.1	114	0	94	140
AUG.												
12...	17	12	50	20	89	30	110	7.8	195	--	160	270

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
AUG., 1973												
07...	87	.3	.63	.00	635	330	190	2.0	968	8.1	18.0	7.8
NOV.												
27...	240	.5	9.3	.04	4150	2400	2100	3.4	240	7.9	2.5	10.6
FEB., 1974												
19...	170	.7	.97	.01	2580	1500	1200	2.8	3220	7.3	1.0	11.2
MAY												
28...	34	.3	.49	.02	348	200	110	1.1	576	7.8	13.5	9.1
AUG.												
12...	120	.3	.48	.10	738	350	190	2.6	1200	7.7	16.0	7.0

09106200 LEWIS WASH NEAR GRAND JUNCTION, COLO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	1010	700	1480	2150	1040
2	---	---	---	---	---	---	5110	890	---	1320	1290	1020
3	---	---	---	---	---	---	5260	746	---	1330	990	990
4	---	---	---	---	---	---	5180	767	---	1290	1050	990
5	---	---	---	---	---	---	2820	820	---	690	1050	970
6	---	---	---	---	---	---	---	1460	760	520	996	970
7	---	---	---	---	---	---	---	790	---	645	954	1020
8	---	---	---	---	---	---	---	586	760	930	889	1040
9	---	---	---	---	---	---	---	525	760	1160	871	1070
10	---	---	---	---	---	---	---	---	---	1120	890	1150
11	---	---	---	---	---	---	2970	---	760	1020	912	1240
12	---	---	---	---	---	---	1740	---	760	850	934	1330
13	---	---	---	---	---	---	1700	---	760	780	916	1280
14	---	---	---	---	---	---	1680	---	760	970	891	1300
15	---	---	---	---	---	---	1710	500	760	1180	1070	1790
16	---	---	---	---	---	---	1870	---	760	1270	1070	1830
17	---	---	---	---	---	---	1750	---	760	1280	1070	1730
18	---	---	---	---	---	---	1620	---	760	1380	1050	1480
19	---	---	---	---	---	---	1120	777	1100	1660	1150	1280
20	---	---	---	---	---	---	1030	777	760	5690	1270	1350
21	---	---	---	---	---	---	980	---	760	5080	1120	1180
22	---	---	---	---	---	---	980	1200	---	4960	1030	1100
23	---	---	---	---	---	---	1020	856	760	4970	1070	1110
24	---	---	---	---	---	---	1010	856	760	5030	1010	1170
25	---	---	---	---	---	---	960	---	795	625	1070	1230
26	---	---	---	---	---	---	960	856	1310	970	1110	1210
27	---	---	---	---	---	---	890	856	2030	1290	1100	1280
28	---	---	---	---	---	---	870	---	650	1520	1100	1430
29	---	---	---	---	---	---	890	---	---	1740	1100	1310
30	---	---	---	---	---	---	1030	---	1200	1890	1110	1300
31	---	---	---	---	---	---	---	---	---	2030	1060	---

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1300	2080	5430	6760	5590	2210	5690	709	605	820	2990	2450
2	1290	3350	5400	6920	5560	1920	5290	695	610	840	3160	2290
3	1280	4940	5350	7180	5700	3360	5350	684	615	860	3140	2140
4	1270	5130	5470	7090	5830	4690	5660	674	620	880	3120	2110
5	1270	5290	5490	6830	5670	5300	5680	662	625	900	3110	2010
6	1300	5420	5480	6660	5610	5360	5660	648	630	920	3100	1990
7	1300	5540	5490	6740	5620	5280	5640	655	635	940	3070	1790
8	1300	5660	5490	6640	6050	5560	5560	624	640	960	3100	1800
9	1400	5770	5540	6490	6200	5730	4980	727	645	980	2990	1930
10	1770	5900	5580	6440	6180	5130	4630	606	650	1000	1360	1960
11	1650	6040	5610	6460	6330	5670	2500	588	650	1010	1250	1880
12	1620	6230	5630	6460	6060	5680	965	580	650	1020	1290	1800
13	1460	6370	5590	6310	5860	5880	1050	564	650	1030	3370	1570
14	1390	6490	5580	6210	5630	5930	1070	555	650	1040	5680	1580
15	1400	6570	5680	6110	5510	5840	1070	520	650	1270	5320	2810
16	1390	6740	5740	6060	5350	5790	1110	503	650	2100	5150	4040
17	1340	6860	5740	5990	5090	5760	996	504	650	1740	4550	4280
18	1300	7030	5770	5890	4500	5770	1100	517	650	1900	4090	4760
19	1260	6930	5850	5840	4110	5780	1080	517	650	1910	4000	4550
20	1240	7680	5980	5760	5130	5780	1080	524	650	1830	3840	3640
21	1220	7150	6000	5590	5640	5860	1040	531	650	1770	3630	3410
22	1200	6740	5970	5760	5730	5960	1020	541	670	1680	3320	3270
23	1180	6500	5960	5950	6100	5990	1030	546	670	1630	3100	3030
24	1140	6240	6010	6220	6120	5990	1090	559	680	1550	2930	2750
25	1130	5910	6200	6280	6230	5990	990	557	700	1470	2790	2500
26	1210	5660	6320	5780	6040	6010	891	599	720	1400	2660	2170
27	1210	5310	6450	5670	5700	6020	810	571	740	1320	2540	2050
28	1280	5360	6360	5600	4750	6000	743	642	760	1300	2510	1880
29	1320	5380	6320	5590	---	6000	731	584	780	1180	2470	1610
30	1410	5390	6180	5720	---	5970	719	600	800	1120	2450	1380
31	1610	---	6550	5680	---	5780	---	600	---	1710	2440	---

09106200 LEWIS WASH NEAR GRAND JUNCTION, COLO.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	12.0	15.5	17.5	18.0	19.0
2	---	---	---	---	---	---	12.0	12.0	15.0	17.5	19.5	17.5
3	---	---	---	---	---	---	9.5	13.0	14.0	17.0	18.5	16.5
4	---	---	---	---	---	---	10.0	13.0	13.0	18.5	20.0	16.5
5	---	---	---	---	---	---	17.5	12.5	13.0	20.0	19.0	17.5
6	---	---	---	---	---	---	---	11.0	15.0	18.0	19.5	17.5
7	---	---	---	---	---	---	---	13.0	16.0	18.0	19.0	18.0
8	---	---	---	---	---	---	---	13.5	17.5	18.0	19.5	17.5
9	---	---	---	---	---	---	---	14.5	17.5	18.5	20.0	17.0
10	---	---	---	---	---	---	---	---	17.5	18.5	20.5	18.5
11	---	---	---	---	---	---	12.5	---	16.5	19.0	21.0	16.0
12	---	---	---	---	---	---	11.5	---	15.5	19.5	21.5	16.5
13	---	---	---	---	---	---	12.0	---	15.5	19.0	21.5	18.5
14	---	---	---	---	---	---	11.5	---	14.5	18.5	21.0	16.5
15	---	---	---	---	---	---	10.0	---	13.5	18.5	21.0	16.5
16	---	---	---	---	---	---	11.5	---	13.5	18.5	21.5	16.5
17	---	---	---	---	---	---	11.0	15.5	13.5	18.5	21.5	15.5
18	---	---	---	---	---	---	9.5	15.0	13.5	18.0	21.5	15.5
19	---	---	---	---	---	---	9.0	14.0	13.5	21.5	22.5	16.5
20	---	---	---	---	---	---	8.5	14.5	14.5	20.5	23.5	17.0
21	---	---	---	---	---	---	10.0	14.0	15.5	18.0	22.0	16.0
22	---	---	---	---	---	---	11.5	14.0	16.5	17.5	23.0	16.5
23	---	---	---	---	---	---	13.0	15.0	16.5	17.5	22.5	15.5
24	---	---	---	---	---	---	14.0	15.0	15.5	18.0	22.5	15.0
25	---	---	---	---	---	---	14.0	13.0	17.0	18.0	22.0	14.5
26	---	---	---	---	---	---	13.5	12.5	17.0	18.0	21.5	14.0
27	---	---	---	---	---	---	14.0	12.0	17.5	18.5	21.0	14.0
28	---	---	---	---	---	---	14.0	12.5	18.5	18.5	21.5	14.5
29	---	---	---	---	---	---	13.5	14.0	17.0	18.5	21.5	14.5
30	---	---	---	---	---	---	12.5	15.0	17.5	18.5	21.0	14.5
31	---	---	---	---	---	---	---	15.5	---	18.0	19.5	---

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.0	7.5	3.0	5.0	1.5	0.0	7.5	13.5	16.0	19.0	20.5	18.5
2	16.0	8.5	4.0	3.0	2.0	0.5	7.0	13.5	16.0	19.0	20.5	18.0
3	15.5	7.5	4.0	3.0	2.0	3.0	8.0	13.5	16.5	19.5	20.0	17.5
4	14.5	8.0	3.5	2.5	2.0	3.0	8.5	14.5	16.5	19.5	20.0	17.5
5	14.0	7.0	2.5	2.0	2.0	3.0	9.0	15.5	15.0	19.5	20.0	17.0
6	14.0	7.5	2.0	2.5	2.0	4.5	11.0	16.0	14.5	20.0	20.0	18.0
7	14.0	7.5	2.0	2.5	2.5	4.5	10.0	16.5	14.0	20.5	21.0	18.0
8	13.5	9.0	2.0	2.5	2.5	5.0	10.5	16.5	12.0	21.0	20.0	17.5
9	13.0	9.0	2.0	2.5	2.0	6.5	12.5	16.0	13.5	22.0	19.5	18.0
10	12.0	9.5	2.0	3.5	1.5	5.5	10.0	15.5	15.5	22.5	19.0	19.0
11	10.5	9.0	2.0	3.5	1.5	6.5	9.5	14.5	17.0	22.0	19.0	18.5
12	10.0	8.0	2.5	2.5	1.0	7.5	9.0	14.0	18.0	22.0	19.5	16.5
13	11.0	8.5	3.0	2.5	1.5	8.5	8.0	13.0	18.5	22.5	19.5	15.5
14	11.5	8.0	4.0	2.5	2.0	9.5	9.0	13.0	19.0	23.0	19.0	15.5
15	12.5	6.5	3.0	2.5	2.0	10.5	10.0	13.0	18.5	22.0	19.5	15.5
16	13.5	6.0	2.5	3.0	2.0	11.5	11.5	14.5	18.0	21.0	19.5	15.5
17	13.5	6.0	2.5	3.0	2.0	12.0	13.0	13.5	18.0	21.5	19.5	15.5
18	13.5	5.5	3.5	2.5	2.0	11.5	13.5	13.5	18.0	21.5	19.5	16.5
19	13.5	6.5	2.0	3.0	1.5	10.5	13.0	14.5	18.5	20.5	18.5	17.0
20	14.0	5.0	1.5	2.5	2.0	8.5	11.0	13.0	18.0	20.5	18.5	17.0
21	14.0	4.5	1.5	3.0	2.5	8.0	12.0	12.5	19.0	20.5	18.0	16.5
22	13.5	4.0	2.0	3.5	1.5	8.0	13.0	13.0	20.0	20.0	18.0	17.0
23	13.0	4.0	3.0	2.5	2.0	9.0	14.0	14.0	20.0	20.0	18.0	17.0
24	13.0	4.0	3.0	1.5	1.0	9.0	14.0	14.0	20.0	20.0	18.5	17.0
25	12.0	4.0	3.0	1.5	1.0	10.0	14.0	14.5	21.0	19.5	18.5	17.5
26	11.5	3.5	2.5	0.5	1.0	10.0	14.5	17.0	21.5	20.0	19.0	17.0
27	10.5	3.0	2.5	1.5	0.5	10.0	13.5	17.0	20.5	20.0	19.0	16.0
28	10.0	2.0	3.0	1.5	-0.5	9.0	13.0	16.5	18.5	20.0	19.0	14.5
29	9.0	2.0	3.5	2.0	---	10.0	12.5	16.0	19.0	20.5	19.0	14.0
30	7.5	2.5	4.0	2.5	---	11.5	12.5	16.0	19.5	20.5	19.5	14.0
31	7.5	---	4.0	1.5	---	9.5	---	16.0	---	20.5	19.0	---

09152500 GUNNISON RIVER NEAR GRAND JUNCTION, COLO.
(Irrigation network station)

LOCATION.--Lat 38°59'00", long 108°27'00", near center of sec.14, T.2 S., R.1 E., Ute Meridian, Mesa County, at gaging station, at bridge on State Highway 141, 0.4 mi (0.6 km) downstream from Whitewater Creek, 0.5 mi (0.8 km) south of Whitewater, and 8 mi (13 km) southeast of Grand Junction.

DRAINAGE AREA.--7,928 mi^2 (20,534 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1931 to September 1974.
Water temperatures: April 1949 to September 1974.

EXTREMES, 1973-74.--Specific conductance: Maximum daily recorded, 3,000 micromhos on several days during July and September; minimum daily, 425 micromhos Jan. 13, 14.
Water temperatures: Maximum, 26°C June 30; minimum, 2°C on several days during January to February.
Period of record.--Specific conductance: Maximum daily, 3,000 micromhos on several days during July and September 1974; minimum daily, 280 micromhos May 23, 1948.
Water temperatures (1949-74): Maximum, 30°C Aug. 13, 1958; minimum, freezing point on many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
NOV., 1973												
29...	1800	17	10	67	170	68	120	6.0	256	0	210	730
DEC.												
13...	2340	14	20	83	85	33	57	3.4	168	0	138	300
FEB., 1974												
28...	3920	11	30	10	55	20	33	2.6	138	0	113	160
MAR.												
22...	3340	12	30	75	65	26	41	2.9	146	0	120	210
MAY												
02...	4380	11	70	40	50	17	30	2.3	106	0	87	160
JUNE												
07...	2130	14	10	10	110	36	62	3.3	152	0	125	380
JULY												
26...	660	19	50	0	180	58	110	5.5	269	0	221	680
AUG.												
14...	660	17	20	30	180	65	120	5.8	233	--	191	720

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
NOV., 1973												
29...	15	.6	2.0	.04	1260	700	490	2.0	1620	8.3	2.5	11.8
DEC.												
13...	7.8	.3	.99	.03	588	350	210	1.3	866	8.2	4.0	11.6
FEB., 1974												
28...	5.1	.3	.54	.02	358	220	110	1.0	565	8.3	4.0	11.2
MAR.												
22...	7.0	.3	.55	.02	439	270	150	1.1	689	8.0	5.5	10.6
MAY												
02...	4.7	.8	.43	.03	330	190	110	.9	509	7.8	11.0	9.4
JUNE												
07...	8.4	.5	1.0	.01	694	420	300	1.3	1020	8.1	16.0	8.6
JULY												
26...	15	.6	2.1	.06	1210	690	470	1.8	1600	8.1	22.0	7.2
AUG.												
14...	15	.7	1.8	.04	1250	720	530	2.0	1690	7.9	19.0	8.8

09152500 GUNNISON RIVER NEAR GRAND JUNCTION, COLO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1000	700	800	500	575	900	750	650	1400	1500	---	2600
2	1200	650	700	500	575	900	730	650	1400	1500	---	---
3	1200	1000	700	500	525	900	750	650	1400	1500	---	---
4	1200	1000	700	500	525	900	750	650	1400	1700	---	---
5	1200	1000	650	500	525	900	750	650	1400	1900	---	---
6	1000	1000	650	500	525	900	750	575	1400	2000	---	---
7	1100	1500	700	500	525	900	750	500	1400	2000	---	2600
8	1100	1500	800	600	525	900	750	500	1400	3000	---	2600
9	1100	1600	800	500	525	900	750	500	1400	3000	---	3000
10	1000	1600	800	500	525	900	750	500	1400	3000	---	3000
11	1000	1500	800	500	525	900	750	500	1500	3000	---	3000
12	950	1700	750	500	525	900	750	500	1400	3000	---	2600
13	800	1600	750	425	525	900	700	600	1500	2900	---	2600
14	850	1600	800	425	525	900	700	700	1400	2800	---	2600
15	1150	1600	800	450	575	900	700	700	1400	2800	---	2700
16	1100	1600	750	450	575	900	700	700	1400	2400	---	---
17	1100	1600	750	450	575	850	700	700	1400	2400	---	---
18	1000	1600	800	450	575	850	700	800	1400	2300	---	---
19	1000	750	800	450	575	850	700	800	1400	2300	---	---
20	1000	750	800	500	575	850	700	600	1400	2500	---	---
21	1100	700	800	500	600	850	850	700	1400	2500	---	---
22	1000	700	800	500	500	750	1000	700	1500	2500	---	---
23	950	800	800	500	600	750	1000	700	1500	2400	---	---
24	950	800	800	500	600	750	1000	600	1500	2400	---	---
25	850	700	550	500	600	750	850	600	1500	2400	---	2800
26	850	800	550	500	600	750	850	700	1600	2400	---	2600
27	850	800	600	500	600	750	850	800	1600	2400	---	2700
28	850	800	600	500	600	750	850	800	1500	2400	---	---
29	850	800	600	500	---	750	850	1000	1600	2400	---	---
30	700	800	600	550	---	750	850	1000	1600	2500	---	---
31	900	---	600	575	---	750	---	1000	---	2600	---	---

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.0	9.0	6.0	---	2.0	6.0	9.0	12.0	15.0	20.0	---	17.0
2	15.0	9.5	7.0	4.5	2.0	6.0	9.0	12.0	15.0	20.0	---	---
3	16.0	9.5	7.0	4.5	3.0	6.0	10.0	12.0	15.0	20.0	---	---
4	15.0	9.5	7.0	4.5	3.0	6.0	9.0	12.0	15.0	20.0	---	---
5	15.0	9.5	7.0	4.5	3.0	6.0	9.0	12.0	15.0	20.0	---	---
6	15.0	9.5	6.0	4.5	3.0	6.0	10.0	14.1	15.0	20.0	---	---
7	17.0	8.5	6.0	4.5	3.0	6.0	10.0	14.0	15.0	20.0	---	17.0
8	15.0	8.5	5.0	5.0	2.0	6.0	9.0	14.0	15.0	20.0	---	20.0
9	15.0	9.5	5.0	4.5	2.0	6.0	9.0	14.0	15.0	20.0	---	24.0
10	15.0	9.5	5.0	4.5	4.0	6.0	9.0	14.0	15.0	20.0	---	24.0
11	15.0	9.5	5.0	4.0	3.0	6.0	9.0	14.0	15.0	21.0	---	24.0
12	15.0	9.5	5.0	2.5	3.0	6.0	9.0	14.0	15.0	23.0	---	20.0
13	15.0	9.0	5.0	2.0	5.0	6.0	9.0	13.0	16.0	23.0	---	20.0
14	15.0	9.0	5.0	4.0	5.0	8.0	9.0	16.0	17.0	24.0	---	20.0
15	15.0	7.5	5.0	4.0	5.0	10.0	8.0	16.0	17.0	---	---	20.0
16	15.0	7.0	3.5	4.0	5.0	12.0	8.0	16.0	20.0	---	---	---
17	12.0	7.0	3.5	4.0	5.0	10.0	8.0	16.0	20.0	---	---	---
18	12.0	7.5	3.5	4.0	5.0	10.0	8.0	13.0	20.0	---	---	---
19	11.5	8.5	3.5	4.0	5.0	10.0	8.0	13.0	20.0	---	---	---
20	11.5	8.5	3.5	4.0	5.0	10.0	8.0	13.0	20.0	---	---	---
21	12.0	7.5	3.5	3.0	5.0	10.0	8.0	13.0	20.0	---	---	---
22	14.0	6.0	3.5	2.5	5.0	9.0	10.0	13.0	24.0	---	---	---
23	14.0	7.0	5.0	3.0	5.0	9.0	10.0	13.0	24.0	---	---	---
24	10.0	7.0	5.0	3.0	5.0	9.0	10.0	16.0	24.0	---	---	---
25	9.5	6.0	4.0	2.5	5.0	10.0	10.0	16.0	24.0	---	---	---
26	9.5	6.0	4.0	2.5	5.0	10.0	10.0	16.0	24.0	---	---	---
27	9.5	7.0	5.0	2.5	5.0	10.0	10.0	16.0	24.0	---	---	20.0
28	9.0	7.0	5.0	2.5	5.0	10.0	12.0	16.0	24.0	---	---	---
29	9.0	7.0	5.0	2.0	---	10.0	12.0	18.0	24.0	---	---	---
30	8.5	7.0	5.0	2.0	---	9.0	12.0	18.0	26.0	---	---	---
31	7.0	---	5.0	2.0	---	9.0	---	18.0	---	---	---	---

09152600 ORCHARD MESA DRAIN AT GRAND JUNCTION, COLO.

LOCATION.--Lat 39°02'49", long 108°34'17", in NE¼NE¼ sec.27, T.1 S., R.1 W., Ute meridian, Mesa County, at gaging station, on right bank 350 ft (110 m) upstream from mouth and 1.6 mi (2.6 km) south of city hall in Grand Junction.

DRAINAGE AREA.--3.70 mi^2 (9.58 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1973 to September 1974.
Water temperatures: April 1973 to September 1974.

EXTREMES, 1973-74.--Specific conductance: Maximum, 8,930 micromhos June 20, 1973; minimum, 880 micromhos Apr. 19, 1973.
Water temperatures: Maximum, 34.5°C June 27, 1973; minimum, freezing point on many days during December to February.

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

WATER QUALITY DATA, AUGUST 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
AUG., 1973												
07...	18	15	80	120	230	60	150	3.6	141	0	116	830
NOV.												
27...	2.5	25	60	150	480	160	310	7.4	315	0	258	2000
FEB., 1974												
19...	1.6	3.9	70	450	500	160	310	11	359	0	294	1900
MAY												
28...	17	13	70	180	210	54	110	3.6	197	0	162	690
AUG.												
12...	18	16	20	120	200	48	130	4.6	221	--	181	630

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
AUG., 1973												
07...	130	.8	1.5	.04	1500	820	710	2.3	1910	7.9	18.0	8.2
NOV.												
27...	200	1.5	3.5	.08	3360	1900	1600	3.1	3690	8.2	6.0	11.4
FEB., 1974												
19...	210	.7	.73	.01	3280	1900	1600	3.1	3860	7.5	2.0	11.4
MAY												
28...	90	.7	1.4	.05	1280	750	590	1.8	1740	7.7	14.5	9.4
AUG.												
12...	130	.7	1.3	.00	1270	700	520	2.1	1780	7.4	17.0	8.4

09152600 ORCHARD MESA DRAIN AT GRAND JUNCTION, COLO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	1240	1380	1910	1920	1630
2	---	---	---	---	---	---	4000	1180	1270	1780	2010	1590
3	---	---	---	---	---	---	3950	1260	1200	1850	1850	1630
4	---	---	---	---	---	---	3830	1400	1050	1860	1880	1680
5	---	---	---	---	---	---	3710	1370	1020	1870	1900	1720
6	---	---	---	---	---	---	3720	1380	1040	1650	1900	1740
7	---	---	---	---	---	---	3700	1340	1040	1640	1920	1780
8	---	---	---	---	---	---	3720	1350	1060	1760	1870	1790
9	---	---	---	---	---	---	3770	1440	1050	1830	2010	1780
10	---	---	---	---	---	---	3140	1580	1010	1830	2090	1830
11	---	---	---	---	---	---	1760	1380	984	1830	2110	1880
12	---	---	---	---	---	---	1610	1180	1050	1720	2110	1890
13	---	---	---	---	---	---	1490	1250	1050	1770	2110	1820
14	---	---	---	---	---	---	1720	1350	988	1620	2160	1870
15	---	---	---	---	---	---	2030	1390	946	1580	2170	1890
16	---	---	---	---	---	---	2120	1400	959	1670	2050	1940
17	---	---	---	---	---	---	2130	1350	952	1740	1810	1980
18	---	---	---	---	---	---	1800	1260	976	1660	1810	2020
19	---	---	---	---	---	---	1120	1280	4030	1520	1870	2160
20	---	---	---	---	---	---	920	1320	7580	1500	1970	2110
21	---	---	---	---	---	---	970	1450	4740	1420	2100	2090
22	---	---	---	---	---	---	1020	1430	3020	1400	2090	2060
23	---	---	---	---	---	---	1180	1490	1440	1430	1950	2050
24	---	---	---	---	---	---	1300	1490	1390	1480	2070	1980
25	---	---	---	---	---	---	1290	1270	1350	1460	2160	1940
26	---	---	---	---	---	---	1330	1120	1370	1510	2170	1930
27	---	---	---	---	---	---	1420	1100	1420	1550	2140	2060
28	---	---	---	---	---	---	1540	1190	1820	1570	2020	2070
29	---	---	---	---	---	---	1460	1300	1840	1610	1610	2040
30	---	---	---	---	---	---	1480	1370	1880	1720	1590	2130
31	---	---	---	---	---	---	---	1340	---	1920	1550	---

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2090	3500	4420	4360	5660	3960	4530	1410	1790	2190	2270	3170
2	2080	3970	4450	4360	5700	3240	4230	1510	1710	2310	2270	3100
3	2060	4250	4460	4470	5720	3330	4380	1560	1790	2330	2180	3000
4	2100	4510	4470	4530	5740	4080	4490	1530	1960	2220	2140	2940
5	2150	4620	4460	4430	5760	3990	4510	1600	2010	2280	2110	2960
6	2140	---	4470	4420	5780	3960	4550	1670	1870	2300	2110	2830
7	2200	---	4440	4670	5690	3950	4540	1660	1860	2310	2100	2760
8	2210	---	4400	4890	5620	3920	4510	1730	1810	2240	2100	2800
9	2180	---	4360	4770	5510	3870	4440	1820	1860	2230	2110	2790
10	2170	---	4320	4690	5400	3770	4210	1870	1980	2370	2120	2750
11	2210	---	4300	4710	5280	4110	4060	1760	2090	2420	2130	2670
12	2190	---	4240	4700	5150	4150	3380	1810	2330	2500	2130	2660
13	2320	---	4190	4720	4990	4200	1670	1800	2390	2610	2140	2270
14	2400	---	4180	4780	4860	4260	1590	1600	2420	2600	2140	2000
15	2500	---	4110	4830	4740	4290	1650	1900	2320	2580	2150	1790
16	2580	---	4000	4880	4610	4330	2120	2010	2250	2430	2150	1770
17	2720	---	4210	4930	4540	4430	2200	1820	2150	2230	2140	1840
18	2730	---	4330	4960	4460	4690	2030	1870	2120	1890	2140	1870
19	2550	---	4300	5040	4470	4730	2050	1850	2150	2260	2130	1910
20	2430	5820	4160	5080	4520	4650	1670	1760	2340	2260	2120	2020
21	2400	5630	4220	5130	4560	4590	1720	1870	2310	1710	2100	2030
22	2380	5400	4330	5570	4550	4600	1750	1890	2160	1730	2090	2060
23	2290	5190	4370	5640	4520	4600	1800	1890	2320	1800	2050	2090
24	2130	4990	4380	5700	4510	4580	1560	1910	2440	1680	2040	2130
25	2040	4760	4400	5720	4410	4570	1490	1890	2500	1650	1930	2140
26	1970	4520	4340	5590	4430	4530	1410	1990	2360	1590	1910	2140
27	1920	4350	4340	5580	4380	4540	1370	1940	2260	1690	1960	2110
28	1800	4410	4430	5640	4240	4550	1400	1980	2220	1660	1910	2210
29	2580	4430	4420	5660	---	4540	1410	1960	2110	1680	2110	2210
30	2660	4430	4400	5700	---	4560	1350	1840	2170	1790	2690	2200
31	2390	---	4430	5710	---	4470	---	1770	---	2030	3330	---

09152600 ORCHARD MESA DRAIN AT GRAND JUNCTION, COLO.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	13.0	18.0	21.0	21.5	19.0
2	---	---	---	---	---	---	13.0	14.5	18.5	21.0	21.5	17.5
3	---	---	---	---	---	---	13.5	14.5	16.5	20.0	21.0	17.0
4	---	---	---	---	---	---	12.0	15.0	17.5	21.0	21.0	17.5
5	---	---	---	---	---	---	11.5	14.0	17.0	21.5	20.0	18.5
6	---	---	---	---	---	---	12.5	12.0	18.5	21.0	19.5	19.0
7	---	---	---	---	---	---	7.5	14.5	19.0	22.0	20.0	19.5
8	---	---	---	---	---	---	9.5	15.0	20.5	21.0	21.0	18.5
9	---	---	---	---	---	---	12.0	16.5	21.5	21.5	21.0	18.0
10	---	---	---	---	---	---	12.0	17.5	22.0	22.0	20.5	18.0
11	---	---	---	---	---	---	12.5	18.0	---	22.0	21.5	17.0
12	---	---	---	---	---	---	13.5	17.5	---	21.0	21.0	19.0
13	---	---	---	---	---	---	14.0	17.0	23.5	21.0	21.5	19.0
14	---	---	---	---	---	---	13.0	16.5	23.5	21.5	21.0	18.0
15	---	---	---	---	---	---	12.5	17.5	---	21.5	21.5	18.5
16	---	---	---	---	---	---	13.0	18.0	---	21.0	21.5	18.0
17	---	---	---	---	---	---	12.5	18.0	---	21.0	20.5	17.0
18	---	---	---	---	---	---	10.5	18.5	---	19.5	21.5	17.0
19	---	---	---	---	---	---	10.5	17.5	25.0	20.0	21.5	15.5
20	---	---	---	---	---	---	10.0	18.5	27.5	20.5	21.5	16.5
21	---	---	---	---	---	---	11.5	16.5	27.0	19.0	20.0	17.0
22	---	---	---	---	---	---	12.5	17.5	26.0	19.0	21.0	16.5
23	---	---	---	---	---	---	13.5	18.0	26.0	20.0	21.0	16.5
24	---	---	---	---	---	---	13.5	18.5	25.0	21.0	21.5	15.5
25	---	---	---	---	---	---	15.0	16.0	27.0	21.0	20.5	14.5
26	---	---	---	---	---	---	14.5	15.5	27.5	21.0	20.0	14.0
27	---	---	---	---	---	---	14.5	15.5	30.0	21.0	20.0	14.0
28	---	---	---	---	---	---	15.0	16.0	22.0	21.5	20.0	14.5
29	---	---	---	---	---	---	15.0	17.5	21.0	22.0	19.5	14.5
30	---	---	---	---	---	---	13.5	18.0	21.0	21.5	19.5	14.5
31	---	---	---	---	---	---	---	18.5	---	20.5	20.0	---

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.0	11.0	6.0	1.0	1.0	7.0	8.0	14.5	17.0	20.0	21.0	19.0
2	15.0	11.5	6.5	1.0	1.5	6.0	7.5	13.5	17.0	19.5	21.0	19.0
3	14.0	11.0	6.5	0.5	1.0	5.0	8.0	14.5	17.0	20.0	20.5	18.0
4	13.5	10.5	5.5	0.5	0.5	5.5	9.5	15.5	17.5	19.5	21.0	18.5
5	13.5	8.0	4.0	0.5	0.5	5.5	10.0	15.5	15.5	19.0	21.5	18.0
6	14.5	---	3.5	0.5	1.0	7.0	11.0	16.5	15.5	19.0	21.5	19.0
7	15.0	---	4.0	1.5	1.0	8.0	11.0	17.0	15.0	19.0	21.5	19.0
8	14.0	---	4.5	3.0	0.5	9.0	11.5	17.5	12.0	19.5	20.0	18.5
9	13.0	---	4.0	3.5	0.5	9.5	11.0	18.0	14.0	21.0	20.0	19.0
10	13.0	---	3.5	3.0	0.0	8.0	9.0	17.0	15.5	20.5	20.0	20.0
11	11.5	---	4.0	0.5	0.0	10.0	10.0	15.5	17.0	20.0	19.5	19.0
12	11.5	---	4.5	0.5	0.0	9.5	9.0	16.0	18.5	20.0	20.0	17.5
13	12.0	---	5.0	2.0	0.5	10.0	8.0	13.5	18.5	20.0	20.5	16.5
14	12.5	---	6.0	3.5	1.0	10.5	10.0	14.5	19.0	20.5	20.0	16.5
15	13.0	---	4.0	4.0	1.5	12.0	11.0	15.0	18.5	19.0	20.5	16.5
16	13.0	---	3.5	4.0	2.0	12.5	11.5	16.5	18.0	19.0	20.0	17.0
17	13.0	---	4.5	3.0	2.5	12.5	13.0	13.0	18.5	19.5	20.5	17.0
18	13.0	---	5.0	3.5	4.5	11.5	13.0	14.0	19.5	20.5	20.5	17.5
19	12.5	---	2.5	3.0	3.5	11.5	12.0	14.5	19.5	20.0	19.0	17.5
20	12.5	7.0	1.5	3.0	3.5	9.5	10.5	12.0	19.0	19.0	19.5	17.5
21	12.5	7.0	1.5	2.0	3.0	8.5	13.5	13.5	19.0	21.0	19.0	17.0
22	12.5	6.0	2.5	0.5	2.5	8.0	13.5	14.5	19.5	20.5	19.0	17.0
23	12.0	7.0	4.0	0.5	2.0	10.0	14.0	15.0	20.0	19.5	19.0	17.0
24	11.0	7.0	4.0	0.5	1.5	9.5	13.5	15.5	20.0	19.5	19.5	17.0
25	10.0	7.0	3.0	0.5	1.5	10.5	14.5	16.5	20.5	20.5	20.0	17.0
26	10.5	6.0	1.5	0.5	2.5	11.0	14.0	18.0	21.0	20.5	20.0	17.0
27	9.5	5.0	1.5	0.5	3.5	10.5	13.0	17.5	21.0	20.0	20.0	15.0
28	9.5	4.0	4.0	1.5	5.0	9.0	13.0	17.0	20.5	20.5	20.0	14.0
29	9.0	4.5	4.5	1.0	---	10.5	12.5	17.0	21.0	20.5	20.0	14.0
30	9.5	5.0	4.5	0.5	---	12.5	13.5	17.0	20.5	20.0	20.5	13.5
31	9.5	---	2.0	0.5	---	9.5	---	17.0	---	18.0	20.0	---

09152650 LEACH CREEK AT DURHAM, COLO.

LOCATION.--Lat 39°05'27", long 108°36'25", in NW¼NW¼ sec.9, T.1 S., R.1 W., Ute meridian, Mesa County, at gaging station, on left bank 40 ft (12 m) downstream from culvert on U.S. Highways 6 and 50, 0.5 mi (0.8 km) northwest of Durham, and 2.9 mi (4.7 km) northwest of city hall in Grand Junction.

DRAINAGE AREA.--24.8 mi^2 (64.2 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1973 to September 1974.
Water temperatures: April 1973 to September 1974.

EXTREMES, 1973-74.--Specific conductance: Maximum, 9,510 micromhos Apr. 2, 3, 1973; minimum, 462 micromhos Sept. 26, 1974.

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

WATER QUALITY DATA, AUGUST 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
AUG., 1973												
07...	E60	10	150	40	150	52	120	4.3	195	0	160	560
NOV.												
27...	11	15	10	140	500	220	320	10	319	0	262	2300
FEB., 1974												
19...	6.6	2.0	50	290	460	220	290	13	342	0	281	2100
MAY												
28...	73	8.6	40	30	91	31	57	3.0	138	0	113	300
AUG.												
12...	75	13	20	40	160	55	120	5.4	209	--	171	530

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
AUG., 1973												
07...	110	.3	1.1	.01	1110	590	430	2.2	1500	7.3	19.0	7.9
NOV.												
27...	190	.4	6.4	.04	3740	2200	1900	3.0	3930	7.8	3.5	12.9
FEB., 1974												
19...	190	.7	1.1	.01	3450	2100	1800	2.8	4040	7.7	3.0	12.6
MAY												
28...	46	.3	.71	.07	608	360	240	1.3	946	7.8	15.0	8.8
AUG.												
12...	120	.3	1.3	.03	1110	630	450	2.1	1600	7.7	18.0	7.9

09152650 LEACH CREEK AT DURHAM, COLO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	1190	1230	1080	1400	1290
2	---	---	---	---	---	---	9280	1250	1140	1050	1340	1270
3	---	---	---	---	---	---	8680	1250	1090	980	930	1280
4	---	---	---	---	---	---	7290	1320	1000	940	1080	1320
5	---	---	---	---	---	---	5820	1400	1040	1040	1280	1400
6	---	---	---	---	---	---	5080	1600	1060	1250	1500	1450
7	---	---	---	---	---	---	3220	1460	1090	1370	1500	1490
8	---	---	---	---	---	---	2240	1450	1170	1380	1500	1550
9	---	---	---	---	---	---	3950	1460	1300	1500	1480	1570
10	---	---	---	---	---	---	2760	1400	1190	1540	1480	1580
11	---	---	---	---	---	---	2480	1270	1110	1360	1530	1620
12	---	---	---	---	---	---	2140	1160	1090	1390	1590	1660
13	---	---	---	---	---	---	1930	1300	1110	1240	1630	1660
14	---	---	---	---	---	---	1830	---	1060	1330	1720	1600
15	---	---	---	---	---	---	1910	---	984	1180	1780	1590
16	---	---	---	---	---	---	2030	---	992	1140	1750	1600
17	---	---	---	---	---	---	2000	---	1020	1120	1610	1610
18	---	---	---	---	---	---	2030	1010	1040	1120	1600	1700
19	---	---	---	---	---	---	1400	1030	1110	1120	1640	1660
20	---	---	---	---	---	---	1110	989	1190	1090	1580	1620
21	---	---	---	---	---	---	1160	973	1230	1060	1660	1660
22	---	---	---	---	---	---	1220	1040	1230	1040	1790	1740
23	---	---	---	---	---	---	1320	1120	1220	1020	1710	1750
24	---	---	---	---	---	---	1340	1180	1210	990	1710	1690
25	---	---	---	---	---	---	930	1140	1230	982	1720	1690
26	---	---	---	---	---	---	960	1090	1240	1000	1740	1770
27	---	---	---	---	---	---	1030	1020	1240	1050	1780	1750
28	---	---	---	---	---	---	1110	1120	1240	1080	1730	1800
29	---	---	---	---	---	---	1160	1140	1120	1140	1330	1720
30	---	---	---	---	---	---	1170	1210	1070	1240	1240	1730
31	---	---	---	---	---	---	---	1240	---	1330	1260	---

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1390	1970	4800	5230	4950	3300	5250	1040	1080	1300	1760	1730
2	1800	2310	4750	5250	4960	2430	4990	1050	1070	1360	1740	1640
3	1830	2900	4740	5280	4970	2440	5270	1080	1080	1410	1720	1760
4	1840	3230	4730	5240	5000	3640	5150	1070	1090	1470	1760	1790
5	1860	3360	4650	5240	4970	4290	5200	1040	1100	1500	1810	1850
6	1860	3480	4600	5280	4870	4320	5160	1030	1090	1540	1870	1850
7	2020	3570	4620	5370	4930	4330	5130	1010	1080	1580	2000	1760
8	1960	3660	4640	5340	4930	4310	5080	963	1050	1620	2080	1790
9	2050	3720	4650	5290	4910	4270	2040	952	1070	1650	2070	1740
10	1840	3780	4670	5270	4810	4220	1210	942	1120	1680	2050	1750
11	1900	3840	4680	5230	4800	4580	1300	931	1180	1690	2050	2100
12	1750	3900	4710	5090	4680	4570	1330	920	1170	1700	2040	2680
13	1720	3970	4700	5110	4730	4570	1350	927	1060	1720	2040	2610
14	1680	4030	4760	5060	4720	4570	1400	930	1080	1770	2030	2540
15	1730	4070	4770	5030	4690	4580	1450	934	1110	1670	2030	2880
16	1790	4130	4760	5010	4640	4570	1380	966	1120	1510	2020	2130
17	1790	4200	4780	4960	4600	4560	1400	952	1150	1500	2020	2200
18	1740	4260	4820	4910	4480	4930	1410	950	1170	1650	2010	2060
19	1750	4460	4830	4910	4620	5340	1420	950	1230	1860	1980	2180
20	1820	4500	4850	4860	4800	5330	1440	964	1290	1400	1940	2300
21	1870	5040	4870	4870	4820	5300	1450	977	1320	1350	1910	2310
22	1910	5460	4900	5000	4740	5280	1460	991	1380	1330	1870	2540
23	1850	5350	4930	5040	4680	5280	1440	1000	1420	1470	1840	2160
24	1630	5220	4980	4980	4470	5240	1420	1020	1450	1470	1720	2140
25	1510	5070	5000	4990	4470	5210	1290	1030	1450	1450	1790	2350
26	1500	4980	5040	4840	4430	5200	1110	1050	1290	1500	1790	2290
27	1680	4890	5070	4850	4390	5200	993	1060	1260	1590	1790	2680
28	1780	4870	5100	4910	4070	5180	1000	1070	1290	1670	1800	2460
29	1790	4820	5110	4930	---	5180	1020	1090	1310	1740	1870	1950
30	1650	4810	5160	4950	---	5180	1030	1100	1310	1790	1810	1860
31	1700	---	5200	4950	---	5090	---	1070	---	1830	1720	---

09152650 LEACH CREEK AT DURHAM, COLO.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	12.0	16.5	20.5	19.0	17.0
2	---	---	---	---	---	---	---	12.5	15.5	20.0	19.0	15.5
3	---	---	---	---	---	---	---	13.5	14.0	20.0	19.0	15.0
4	---	---	---	---	---	---	---	14.5	14.0	21.0	19.0	15.5
5	---	---	---	---	---	---	---	13.5	13.5	21.0	18.5	16.0
6	---	---	---	---	---	---	---	11.5	15.5	21.0	18.5	16.5
7	---	---	---	---	---	---	---	13.0	17.0	21.5	18.5	17.0
8	---	---	---	---	---	---	---	14.5	18.0	21.0	18.5	16.5
9	---	---	---	---	---	---	---	15.5	19.0	21.0	19.0	16.0
10	---	---	---	---	---	---	---	16.0	19.0	21.5	19.0	16.0
11	---	---	---	---	---	---	---	16.5	18.5	22.0	19.5	15.5
12	---	---	---	---	---	---	---	16.5	17.5	20.5	19.5	16.5
13	---	---	---	---	---	---	---	16.0	17.5	20.5	19.5	16.5
14	---	---	---	---	---	---	---	15.0	15.5	20.0	19.0	16.5
15	---	---	---	---	---	---	---	15.0	14.5	19.5	19.0	16.0
16	---	---	---	---	---	---	---	14.5	14.5	19.5	19.0	16.0
17	---	---	---	---	---	---	---	14.0	15.0	19.0	19.0	15.0
18	---	---	---	---	---	---	---	14.0	14.5	17.5	19.5	15.0
19	---	---	---	---	---	---	---	13.5	15.0	18.0	19.5	15.0
20	---	---	---	---	---	---	---	14.0	16.0	18.0	19.5	15.0
21	---	---	---	---	---	---	---	12.5	17.5	17.5	19.0	15.0
22	---	---	---	---	---	---	---	14.0	18.5	17.0	19.0	15.0
23	---	---	---	---	---	---	---	15.5	18.5	17.0	18.5	14.5
24	---	---	---	---	---	---	---	15.5	18.5	17.5	19.0	13.0
25	---	---	---	---	---	---	14.0	13.5	19.0	18.0	18.5	13.0
26	---	---	---	---	---	---	13.5	13.0	20.0	18.0	18.5	12.5
27	---	---	---	---	---	---	14.0	12.5	21.0	18.5	18.0	15.0
28	---	---	---	---	---	---	14.0	13.5	19.5	18.5	18.0	20.5
29	---	---	---	---	---	---	14.0	15.0	20.0	19.0	17.0	21.0
30	---	---	---	---	---	---	13.0	16.0	20.0	19.0	17.0	21.0
31	---	---	---	---	---	---	---	17.0	---	18.5	17.5	---

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.5	9.5	5.5	1.5	2.5	3.5	10.5	---	18.5	---	24.0	---
2	22.0	10.5	6.5	0.5	2.0	2.0	9.5	---	18.5	---	---	---
3	21.5	10.5	6.0	-0.5	1.5	1.5	9.5	---	18.5	---	---	---
4	20.5	10.0	6.0	-0.5	1.0	3.0	11.0	---	18.5	---	---	---
5	20.5	9.0	5.0	-0.5	1.5	4.0	12.0	---	16.5	---	---	---
6	21.5	10.0	4.5	0.5	2.0	5.5	13.5	---	16.0	---	---	---
7	21.5	9.5	5.0	2.0	2.0	6.0	13.0	---	15.5	---	---	---
8	20.5	10.5	5.0	3.0	0.5	6.5	13.5	---	12.5	---	---	---
9	18.5	10.0	5.0	3.0	0.5	7.5	12.5	---	14.0	---	---	---
10	18.5	10.0	4.5	2.5	0.5	6.5	10.0	---	15.5	---	---	---
11	14.0	9.5	5.0	0.0	0.5	8.5	10.0	---	17.0	---	---	16.0
12	11.5	9.5	5.5	0.5	0.5	9.0	9.0	---	18.0	---	---	14.0
13	11.5	11.0	6.0	2.0	0.5	9.5	8.0	15.0	19.0	---	18.0	13.0
14	12.0	9.0	6.5	3.5	1.5	10.0	9.0	15.5	19.0	---	---	13.0
15	12.5	7.5	4.5	4.0	2.0	11.5	10.5	16.5	18.5	21.5	18.0	12.0
16	12.5	7.5	4.5	4.0	2.0	12.0	11.5	18.5	18.5	---	---	13.0
17	12.5	7.5	5.0	3.0	2.5	12.0	12.5	17.5	18.5	---	---	13.5
18	12.5	8.0	5.5	3.0	4.0	12.5	13.0	19.0	18.5	---	---	14.5
19	12.5	8.0	3.5	3.5	3.5	13.5	13.0	20.0	19.0	---	---	15.0
20	12.5	7.0	2.5	3.0	3.5	11.5	11.0	18.5	19.0	---	---	15.0
21	12.5	7.5	2.5	2.5	2.0	10.5	12.0	18.0	19.0	---	---	14.5
22	12.5	6.5	3.0	0.0	2.0	10.0	13.0	18.5	19.5	---	---	14.5
23	12.0	7.0	4.5	0.0	2.0	12.0	14.0	19.5	20.0	---	---	14.5
24	11.0	7.0	4.0	0.0	1.0	11.5	14.0	19.0	20.0	---	---	14.5
25	10.0	7.0	3.0	0.0	1.0	12.0	14.5	20.0	21.5	---	---	15.0
26	10.0	6.0	2.0	0.0	1.5	13.0	14.5	21.0	---	---	---	14.5
27	9.5	4.0	2.0	1.0	2.5	13.5	13.5	20.5	---	---	---	13.0
28	9.5	4.0	4.0	2.5	3.0	12.0	13.0	20.0	---	---	---	12.5
29	9.0	4.0	5.0	2.0	---	12.5	12.5	19.5	---	---	---	11.5
30	9.0	5.0	4.0	1.0	---	15.0	---	19.5	---	---	---	11.5
31	9.0	---	2.0	1.0	---	12.5	---	19.0	---	---	---	---

09152900 ADOBE CREEK NEAR FRUITA, COLO.

LOCATION.--Lat 39°08'13", long 108°41'48", in SW¼SW¼ sec.22, T.1 N., R.2 W., Ute meridian, Mesa County, at gaging station, on right bank 30 ft (9 m) downstream from bridge on U.S. Highways 6 and 50, 0.8 mi (1.3 km) upstream from mouth, and 2.4 mi (3.9 km) southeast of Fruita.

DRAINAGE AREA.--15.4 mi^2 (39.9 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1973 to September 1974.
Water temperatures: April 1973 to September 1974.

EXTREMES, 1973-74.--Specific conductance: Maximum, 6,530 micromhos Apr. 10, 1973; minimum, 750 micromhos Mar. 4, 5, 1974.
Water temperatures: Maximum, 33.0°C Apr. 11, 1973; minimum, 1.0°C many days during December to February.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
AUG., 1973												
07...	25	9.9	190	30	180	57	140	4.9	150	0	123	660
NOV.												
27...	3.9	13	20	330	450	200	390	9.5	387	0	317	2100
FEB., 1974												
19...	2.1	10	70	520	440	200	420	12	413	0	339	2100
MAY												
28...	37	8.8	40	30	120	40	80	3.5	165	0	135	420
AUG.												
12...	9.2	12	20	50	180	52	150	5.7	235	--	193	590

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO, PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
AUG., 1973												
07...	120	.4	2.1	.03	1260	680	560	2.3	1700	7.9	19.0	7.8
NOV.												
27...	210	.3	8.4	.07	3600	1900	1600	3.8	4070	7.8	3.0	11.4
FEB., 1974												
19...	230	.5	9.9	.03	3660	1900	1600	4.2	4300	7.7	3.0	12.8
MAY												
28...	63	.3	1.6	.09	824	460	330	1.6	1270	7.9	14.5	8.7
AUG.												
12...	130	.3	1.9	.05	1240	660	470	2.5	1800	7.7	17.0	7.9

09152900 ADOBE CREEK NEAR FRUITA, COLO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	1210	1140	1480	1560
2	---	---	---	---	---	---	---	---	1250	1190	1510	1480
3	---	---	---	---	---	---	6350	1020	1360	1080	1530	1470
4	---	---	---	---	---	---	6400	1020	1570	1050	1490	1450
5	---	---	---	---	---	---	6420	1090	1580	1260	1600	1420
6	---	---	---	---	---	---	6450	1080	1550	1340	1720	1430
7	---	---	---	---	---	---	6450	1150	1480	1220	1630	1450
8	---	---	---	---	---	---	6420	1240	1430	1160	1730	1460
9	---	---	---	---	---	---	6420	1240	1340	1160	1620	1470
10	---	---	---	---	---	---	6420	1400	1400	1270	1590	1470
11	---	---	---	---	---	---	4010	1370	1390	1330	1540	1490
12	---	---	---	---	---	---	3560	1230	1300	1290	1520	1480
13	---	---	---	---	---	---	3440	1280	1190	1310	1540	1610
14	---	---	---	---	---	---	4270	1230	1190	1320	1510	1710
15	---	---	---	---	---	---	4430	1200	1340	1270	1560	1640
16	---	---	---	---	---	---	3530	1220	1320	1320	1500	1610
17	---	---	---	---	---	---	3040	1370	1390	1320	1600	1650
18	---	---	---	---	---	---	2160	1440	1320	1310	1560	1690
19	---	---	---	---	---	---	1700	1430	1200	1320	1610	1630
20	---	---	---	---	---	---	1310	1290	1170	1310	1660	1560
21	---	---	---	---	---	---	1270	1210	1140	1330	1630	1530
22	---	---	---	---	---	---	1210	1210	1160	1340	1660	1470
23	---	---	---	---	---	---	1210	1220	1160	1350	1580	1510
24	---	---	---	---	---	---	1100	1200	1150	1360	1560	1560
25	---	---	---	---	---	---	1240	1220	1140	1420	1590	1570
26	---	---	---	---	---	---	987	1190	1100	1450	1590	1500
27	---	---	---	---	---	---	865	1160	1170	1500	1600	1470
28	---	---	---	---	---	---	829	1110	1320	1460	1620	---
29	---	---	---	---	---	---	811	1080	1200	1400	1710	---
30	---	---	---	---	---	---	802	1120	1120	1440	1650	---
31	---	---	---	---	---	---	---	1160	---	1500	1710	---

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	3280	5240	5010	5040	3020	4590	971	1500	1200	1860	1880
2	---	4120	5360	5020	5080	2140	4800	1000	1510	1230	1850	1930
3	---	4310	5450	5090	5100	1430	4580	1040	1580	1270	1860	1830
4	---	4390	5550	5080	5120	832	4490	1070	1490	1290	1820	1770
5	---	4510	5650	4990	5050	2280	4450	1110	1380	1340	1850	1800
6	---	4590	5770	4970	5040	3670	4430	1130	1360	1380	1990	1870
7	---	4660	5690	5010	5030	4310	4370	1150	1400	1420	2080	1800
8	---	4740	5620	4990	5040	4440	4350	1190	1480	1440	2090	1850
9	---	4820	5550	4990	5020	4520	4350	1210	1670	1480	2180	1890
10	---	4880	5470	5040	5000	4500	4320	1210	1640	1520	2150	1960
11	2130	4970	5420	5090	4960	4690	3710	1180	1530	1550	2250	2070
12	2150	5060	5360	5070	4910	4770	2620	1170	1350	1570	2160	2030
13	2060	5160	5250	5020	4820	4850	2670	1180	1350	1610	2040	2090
14	1980	5240	5190	5080	4760	4920	2070	1180	1190	1650	1940	1990
15	1990	5300	5120	5110	4730	4980	1960	1130	1070	1710	1960	1900
16	2030	5370	5030	5120	4710	5050	1890	1110	1100	1760	1980	1930
17	2000	5470	4980	5130	4690	5110	1870	1100	1120	1750	2050	2040
18	2070	5540	5000	5120	4620	5180	1780	1100	1150	1800	2090	2020
19	2020	5600	4980	5180	4650	5230	1640	1200	1170	1880	2080	1950
20	2060	5630	4970	5190	4730	5320	1500	1170	1200	1790	2010	1850
21	2030	5790	4970	5110	4760	5120	1520	1150	1230	1840	2010	1820
22	2000	5610	4970	5040	4710	4910	1440	1190	1250	1790	1960	1880
23	1990	5440	4980	5070	4670	4870	1400	1240	1280	1830	2040	1860
24	2050	5290	4990	5140	4620	4830	1350	1300	1300	1760	2000	1870
25	2140	5100	4990	5150	4590	4780	1250	1330	1330	1750	2090	1800
26	2300	4930	4990	4960	4540	4750	1130	1380	1260	1720	2070	1800
27	2430	4750	4990	4910	4380	4740	1070	1400	1190	1720	2100	1790
28	2660	4910	4990	4940	4030	4690	990	1430	1180	1740	2040	1780
29	2620	5020	5000	4980	---	4660	953	1520	1150	1740	1990	1810
30	2620	5130	4980	5060	---	4670	939	1500	1170	1600	2010	1860
31	2730	---	5020	5070	---	4670	---	1420	---	1760	2000	---

09152900 ADOBE CREEK NEAR FRUITA, COLO.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	12.0	16.0	20.0	21.5	18.5
2	---	---	---	---	---	---	---	13.5	16.0	20.0	21.5	17.0
3	---	---	---	---	---	---	16.0	13.5	14.0	20.0	21.5	17.0
4	---	---	---	---	---	---	14.0	14.5	15.0	21.0	21.0	17.0
5	---	---	---	---	---	---	15.0	13.5	14.5	21.5	21.0	18.0
6	---	---	---	---	---	---	16.5	11.0	16.5	21.0	21.0	18.5
7	---	---	---	---	---	---	13.5	14.0	17.5	22.0	21.0	19.0
8	---	---	---	---	---	---	11.5	14.5	18.5	21.0	21.0	18.0
9	---	---	---	---	---	---	13.5	16.0	19.5	21.5	21.5	18.0
10	---	---	---	---	---	---	15.5	16.0	19.5	21.5	21.5	17.5
11	---	---	---	---	---	---	19.0	17.0	18.5	21.5	21.5	17.0
12	---	---	---	---	---	---	18.0	17.0	18.5	20.0	21.5	18.5
13	---	---	---	---	---	---	18.5	16.5	18.0	20.5	22.0	18.5
14	---	---	---	---	---	---	18.5	16.0	16.0	20.5	21.5	18.0
15	---	---	---	---	---	---	17.5	16.5	16.0	20.0	21.5	18.0
16	---	---	---	---	---	---	18.0	16.5	15.5	20.5	21.5	17.5
17	---	---	---	---	---	---	17.5	17.0	16.0	20.5	21.0	17.0
18	---	---	---	---	---	---	15.0	17.5	15.5	19.0	22.0	16.5
19	---	---	---	---	---	---	14.0	16.5	15.0	20.0	22.0	16.5
20	---	---	---	---	---	---	14.0	17.0	16.5	20.5	22.0	16.5
21	---	---	---	---	---	---	16.0	15.5	17.5	20.0	21.0	16.5
22	---	---	---	---	---	---	18.0	15.5	18.5	19.5	21.0	16.5
23	---	---	---	---	---	---	18.5	16.0	19.0	20.0	21.0	16.5
24	---	---	---	---	---	---	16.0	16.0	19.0	20.5	21.5	15.5
25	---	---	---	---	---	---	14.0	14.0	19.5	20.5	21.0	14.0
26	---	---	---	---	---	---	13.0	13.5	20.0	20.5	20.0	14.0
27	---	---	---	---	---	---	13.5	13.0	21.0	20.5	20.0	12.0
28	---	---	---	---	---	---	14.0	14.0	19.5	21.5	19.5	---
29	---	---	---	---	---	---	14.0	15.5	20.5	22.5	19.0	---
30	---	---	---	---	---	---	13.0	16.5	20.0	21.5	18.5	---
31	---	---	---	---	---	---	---	17.0	---	21.0	19.5	---

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	9.0	5.0	2.0	2.0	4.5	8.5	14.5	18.0	19.5	21.0	18.0
2	---	9.5	6.0	1.5	1.5	4.0	8.0	13.5	18.0	19.0	21.5	18.0
3	---	9.5	5.5	1.0	1.5	3.0	7.5	15.0	18.5	19.5	21.0	18.0
4	---	9.0	5.0	1.0	1.5	3.5	8.5	16.0	18.5	18.5	21.5	17.5
5	---	8.0	4.0	1.0	1.5	4.5	9.5	16.0	16.0	18.5	21.5	15.5
6	---	9.0	3.5	1.0	1.5	6.0	11.0	16.5	16.5	19.0	21.0	18.5
7	---	8.5	3.5	2.5	1.5	6.5	11.0	17.0	16.0	19.0	21.5	18.0
8	---	9.0	4.0	3.5	1.5	7.5	11.0	17.5	18.5	19.5	18.5	18.0
9	---	8.5	3.5	4.0	1.0	8.0	12.0	18.0	15.0	20.0	18.5	17.5
10	---	8.5	3.0	3.5	1.5	8.0	10.5	17.0	17.0	20.0	19.0	18.0
11	10.5	8.0	3.5	1.5	1.5	8.5	10.5	15.5	18.0	19.5	18.5	19.5
12	10.0	8.5	4.0	1.5	1.5	8.5	9.5	15.5	19.0	19.0	19.5	19.0
13	10.0	9.5	5.0	2.0	1.5	9.0	8.5	14.5	19.5	20.0	20.0	18.0
14	10.5	8.0	5.5	4.0	1.5	10.0	10.0	15.0	20.0	20.5	---	18.0
15	11.0	6.0	4.0	5.0	1.5	11.0	11.0	15.5	20.5	21.0	19.5	18.0
16	11.0	6.0	3.5	4.5	1.5	11.0	11.5	16.5	20.0	21.5	19.0	18.5
17	11.0	6.5	4.0	4.0	2.5	11.5	13.0	14.0	20.0	22.0	20.0	18.0
18	11.0	7.0	5.0	4.0	4.0	11.5	13.0	15.5	20.5	22.0	19.0	19.0
19	11.0	7.5	2.5	4.0	4.0	11.0	12.5	15.5	20.0	22.5	16.0	19.5
20	11.0	6.0	2.0	3.5	4.5	9.0	10.5	13.0	19.5	22.5	17.0	19.5
21	11.0	6.5	1.5	2.5	3.5	8.0	13.0	14.0	19.0	23.5	17.5	19.0
22	10.5	6.0	2.5	1.5	3.0	8.5	14.0	14.5	19.0	22.5	18.5	19.0
23	10.5	6.0	4.5	1.5	2.5	10.0	14.5	15.5	19.5	22.5	18.0	19.0
24	9.5	6.5	4.5	1.5	2.0	9.0	14.0	16.0	19.5	22.0	18.0	19.0
25	8.5	6.5	3.5	1.5	2.0	9.5	15.5	14.5	20.0	22.5	18.5	19.5
26	9.0	6.0	2.0	1.5	2.0	10.5	15.0	18.0	20.5	22.5	18.5	19.0
27	8.0	4.0	2.0	1.5	3.5	11.0	13.0	18.0	20.0	23.0	19.0	17.0
28	8.0	3.5	3.5	1.5	4.0	10.0	13.5	18.0	20.0	23.0	19.0	15.5
29	8.0	3.5	5.0	1.5	---	10.5	13.5	17.5	20.0	23.0	18.5	15.5
30	8.0	4.5	5.0	1.5	---	12.5	14.0	17.5	20.0	22.5	19.0	15.5
31	8.0	---	2.5	1.5	---	11.0	---	17.5	---	21.0	18.5	---

09153270 BIG SALT WASH AT FRUITA, COLO.

LOCATION.--Lat 39°09'49", long 108°45'01", in NE¼NW¼ sec.18, T.1 N., R.2 W., Ute meridian, Mesa County, at gaging station, on right bank 107 ft (33 m) downstream from railroad bridge, 0.4 mi (0.6 km) upstream from mouth, and 1.0 mi (1.6 km) northwest of Fruita.

DRAINAGE AREA.--142 mi^2 (368 km^2).

PERIOD OF RECORD.--Chemical analyses: March 1973 to September 1974.
Water temperatures: March 1973 to September 1974.

EXTREMES, 1973-74.--Specific conductance: Maximum, 5,670 micromhos Feb. 1, 1974; minimum, 786 micromhos July 27, 1973.

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

WATER QUALITY DATA, AUGUST 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
AUG., 1973												
07...	106	11	290	40	160	63	130	5.0	155	0	127	640
NOV.												
27...	18	15	30	140	420	180	280	8.3	407	0	33[illegible]	1800
FEB., 1974												
19...	9.5	3.2	20	170	380	170	270	8.2	432	0	35[illegible]	1500
MAR.												
08...	16	13	30	180	330	150	260	8.3	405	0	33[illegible]	1400
MAY												
28...	94	9.3	30	30	140	48	78	3.7	182	0	149	450
AUG.												
12...	92	12	50	50	190	66	140	5.8	256	--	210	670

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
AUG., 1973												
07...	120	.3	1.4	.01	1210	660	530	2.2	1690	7.8	21.0	7.6
NOV.												
27...	190	.3	5.2	.05	3120	1800	1500	2.9	3520	7.7	7.0	10.0
FEB., 1974												
19...	180	.5	1.3	.00	2730	1600	1300	2.9	3420	7.8	4.5	11.4
MAR.												
08...	150	.5	3.9	.03	2530	1400	1100	3.0	3130	7.8	10.0	9.4
MAY												
28...	69	.5	1.1	.06	893	550	400	1.5	1310	7.8	17.5	9.1
AUG.												
12...	130	.3	1.5	.01	1350	750	540	2.2	1860	7.5	19.0	8.2

09153270 BIG SALT WASH AT FRUITA, COLO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	1830	1460	890	1790	951	2040
2	---	---	---	---	---	---	1780	1440	1030	1730	1270	2030
3	---	---	---	---	---	---	1740	1500	1050	1690	1930	2000
4	---	---	---	---	---	---	1700	1550	982	1660	1870	1940
5	---	---	---	---	---	---	1660	1540	1230	1690	1770	1900
6	---	---	---	---	---	---	1610	1410	1330	1750	1770	1900
7	---	---	---	---	---	---	1580	1360	1330	1820	1730	1890
8	---	---	---	---	---	---	1520	1330	1220	1780	990	1880
9	---	---	---	---	---	1690	1490	1250	1340	1820	899	1870
10	---	---	---	---	---	2340	1390	1320	1480	1810	---	1860
11	---	---	---	---	---	2320	1410	1310	1630	1780	---	1900
12	---	---	---	---	---	2310	1420	1250	1740	1710	---	1920
13	---	---	---	---	---	2290	1450	1380	1830	1610	---	1920
14	---	---	---	---	---	2270	1480	1600	1960	1420	---	2070
15	---	---	---	---	---	2250	1470	1670	1990	---	---	2060
16	---	---	---	---	---	2260	1500	1690	2230	---	---	2030
17	---	---	---	---	---	2310	1490	1700	---	---	1430	1940
18	---	---	---	---	---	2330	1470	1750	---	---	1650	1760
19	---	---	---	---	---	2330	1480	1700	---	---	1810	1760
20	---	---	---	---	---	2360	1450	1550	1480	---	1900	1760
21	---	---	---	---	---	2410	1490	1390	1750	---	1920	1780
22	---	---	---	---	---	2270	1460	1310	1500	---	1990	1800
23	---	---	---	---	---	2130	1460	1230	1490	---	2120	1810
24	---	---	---	---	---	2170	1500	1350	1990	---	2130	1810
25	---	---	---	---	---	2210	1490	1370	1910	1250	2120	1800
26	---	---	---	---	---	2220	1470	1410	1820	1380	1990	1820
27	---	---	---	---	---	2160	1510	1250	1810	1050	1980	1800
28	---	---	---	---	---	2090	1580	1090	1960	818	1980	1770
29	---	---	---	---	---	2040	1630	1150	1910	857	2130	1750
30	---	---	---	---	---	1940	1560	1240	1840	880	2150	1730
31	---	---	---	---	---	1860	---	890	---	880	2160	---

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2230	2390	4030	3870	5140	4100	2930	1070	1510	1760	1910	2450
2	2280	3000	3980	3860	5190	3590	3260	1110	1530	1800	1820	2400
3	2320	3360	3880	3860	5010	2540	2910	1150	1500	1800	2150	2450
4	1630	2920	3940	3890	5010	2590	2080	1190	1530	1850	2120	2390
5	1670	3040	3970	3930	4940	2330	2160	1220	1590	1900	2130	2320
6	1740	3170	3930	3920	4670	1770	2010	1250	1580	1870	2180	2230
7	1780	3320	3920	4030	4440	2060	2080	1300	1550	1890	2160	2170
8	1820	3470	3940	4010	4470	2320	2080	1340	1450	1930	2160	2130
9	1880	3600	3940	4110	4110	2380	2100	1390	1440	1940	2710	2050
10	1910	3730	3960	4210	4330	2440	1730	1400	1470	1950	2540	2030
11	1900	3810	3970	4180	4160	2460	1440	1420	1540	1980	2550	2090
12	1820	3890	3980	4290	4220	2470	1280	1450	1550	2030	2440	2030
13	1760	3960	4000	4440	4320	2450	1260	1410	1560	2050	2710	1980
14	1720	4040	4010	4630	4210	2400	1210	1430	1510	2010	2860	1960
15	1720	4120	4030	4720	4180	2380	1200	1230	1530	2040	2790	1900
16	1720	4200	4000	4840	4140	2360	1190	1250	1540	2050	2740	1820
17	1730	4280	3990	4940	4070	2340	1170	1270	1560	2080	2730	1780
18	1720	4350	4010	4990	4070	2320	1190	1290	1580	1950	2800	1830
19	1700	4430	3940	5130	3990	2310	1200	1310	1600	1730	3100	1880
20	1690	4510	3930	5220	4080	2840	1180	1330	1620	1740	2730	1910
21	1690	4590	3930	5100	4170	3520	1190	1350	1630	1750	2980	1930
22	1670	4670	3930	4980	4240	3370	1190	1360	1650	1760	2990	1960
23	1650	4510	3960	4840	4280	3330	1130	1380	1670	1770	2920	1980
24	1610	4200	3990	5010	4340	3280	1110	1400	1680	1780	2680	2020
25	1730	3990	3920	4880	4230	3240	1110	1420	1700	1790	2550	2070
26	1790	3830	3890	5040	4410	3190	1090	1440	1720	1800	2670	2090
27	1740	3830	3900	5140	4480	3130	1090	1460	1670	1810	2460	2110
28	1500	4050	3970	5160	4500	3080	1070	1480	1710	1820	2430	2100
29	1630	4040	3990	5160	---	3030	1050	1500	1740	1830	2440	2080
30	1770	4040	4000	5010	---	2990	1050	1500	1720	1830	2520	2090
31	1970	---	3940	4980	---	2980	---	1520	---	1680	2480	---

09153270 BIG SALT WASH AT FRUITA, COLO.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	10.0	13.0	15.5	20.5	19.5	21.5
2	---	---	---	---	---	---	10.5	13.5	15.5	20.0	20.0	20.5
3	---	---	---	---	---	---	9.5	14.5	15.0	20.0	20.0	20.5
4	---	---	---	---	---	---	9.5	15.0	15.0	20.5	19.5	20.5
5	---	---	---	---	---	---	10.0	14.5	14.5	21.0	19.5	21.0
6	---	---	---	---	---	---	11.0	12.0	15.0	21.0	19.5	21.0
7	---	---	---	---	---	---	9.0	14.0	15.0	21.5	20.0	21.5
8	---	---	---	---	---	---	8.5	15.5	15.5	21.5	20.5	21.5
9	---	---	---	---	---	9.5	9.5	16.5	16.0	21.5	20.5	21.5
10	---	---	---	---	---	9.0	9.0	17.0	16.5	22.0	---	21.0
11	---	---	---	---	---	8.5	11.0	17.5	16.5	22.0	---	21.0
12	---	---	---	---	---	9.5	12.0	17.5	16.5	20.5	---	22.0
13	---	---	---	---	---	9.5	12.0	16.5	16.5	20.5	---	22.0
14	---	---	---	---	---	8.5	12.5	15.5	16.0	---	---	22.5
15	---	---	---	---	---	8.5	12.0	15.5	15.5	---	---	22.5
16	---	---	---	---	---	9.0	11.5	16.0	15.5	---	---	22.0
17	---	---	---	---	---	9.5	12.0	16.0	---	---	22.0	21.5
18	---	---	---	---	---	9.5	10.0	17.5	---	---	22.0	21.5
19	---	---	---	---	---	10.0	9.5	16.5	---	---	22.0	22.5
20	---	---	---	---	---	10.0	9.0	16.0	16.5	---	22.0	22.5
21	---	---	---	---	---	9.5	10.0	16.0	17.5	---	22.0	22.5
22	---	---	---	---	---	9.0	12.0	15.5	19.0	---	21.5	21.5
23	---	---	---	---	---	9.0	13.0	16.5	18.5	---	22.0	22.0
24	---	---	---	---	---	9.0	14.0	16.0	19.0	---	22.5	21.0
25	---	---	---	---	---	9.0	14.5	15.0	19.5	---	22.5	19.5
26	---	---	---	---	---	10.0	14.5	14.5	20.5	---	22.5	19.5
27	---	---	---	---	---	10.0	14.5	14.0	21.0	19.5	22.0	20.0
28	---	---	---	---	---	10.0	14.5	14.0	20.5	20.0	22.5	20.5
29	---	---	---	---	---	9.5	14.5	14.5	20.5	20.0	21.5	22.0
30	---	---	---	---	---	10.5	14.0	15.0	20.5	20.0	21.5	21.0
31	---	---	---	---	---	10.5	---	15.0	---	19.5	22.0	---

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.5	9.0	7.0	1.5	---	---	9.5	14.0	17.5	---	---	---
2	20.0	9.0	6.0	1.0	---	---	9.0	13.0	17.5	---	---	---
3	20.0	9.0	8.0	0.5	---	---	8.5	15.0	18.0	---	---	---
4	18.5	9.0	7.5	0.5	1.0	---	9.0	15.5	18.0	---	---	---
5	18.0	8.5	6.5	1.5	---	---	10.0	15.5	15.5	---	---	---
6	17.5	9.0	6.0	1.5	---	---	9.5	16.5	16.0	---	---	---
7	17.5	9.0	5.5	2.5	---	---	9.0	17.0	15.0	---	---	---
8	15.0	9.5	6.0	2.0	---	---	8.5	18.0	12.5	---	---	---
9	14.0	9.5	6.0	2.0	---	---	9.5	18.5	14.5	---	---	---
10	12.5	9.5	6.0	1.5	---	---	7.0	17.0	16.5	---	---	---
11	11.0	9.5	6.5	0.0	---	---	10.0	16.0	19.0	---	---	18.0
12	11.5	9.5	6.5	0.0	---	---	11.0	16.0	---	---	---	16.0
13	12.5	11.0	6.5	1.5	---	---	8.5	15.5	---	---	22.0	15.5
14	11.5	10.0	7.5	3.0	---	---	9.0	15.0	---	---	---	15.5
15	12.0	7.5	7.0	3.0	---	---	10.0	---	---	---	---	15.0
16	12.0	8.5	6.0	3.0	---	---	11.0	---	---	---	---	15.5
17	12.5	8.5	6.0	2.5	---	---	12.5	---	---	20.5	---	15.5
18	13.0	9.0	6.0	2.5	---	---	13.0	---	---	23.5	---	16.0
19	12.5	8.5	4.5	2.5	---	---	12.5	---	---	21.5	---	16.0
20	12.0	8.5	4.0	2.5	---	---	11.5	---	---	23.0	---	16.0
21	12.0	7.5	4.0	1.5	---	---	13.0	---	---	---	---	16.0
22	12.0	7.0	4.0	---	---	9.5	14.0	---	---	---	---	16.0
23	12.0	7.5	5.0	---	---	9.5	15.0	---	---	---	---	16.0
24	11.0	7.0	5.0	0.5	---	10.0	15.0	---	---	---	---	16.0
25	10.5	7.0	4.0	0.0	---	10.5	15.5	---	---	---	---	16.0
26	10.0	6.5	2.5	1.0	---	11.0	14.5	---	---	---	---	15.5
27	9.5	6.0	3.0	2.0	---	10.0	13.5	---	---	---	---	14.0
28	9.5	5.5	5.0	---	---	10.5	13.5	---	---	---	---	13.0
29	9.0	5.5	5.0	---	---	10.0	13.5	---	---	23.0	---	12.5
30	9.0	6.5	4.0	1.0	---	12.0	13.5	---	---	---	---	12.5
31	8.5	---	2.5	1.0	---	11.0	---	---	---	---	---	---

09153300 REED WASH NEAR LOMA, COLO.

LOCATION.--Lat 39°11'01", long 108°47'12", in NE¼SW¼ sec.2, T.1 N., R.3 W., Ute meridian, Mesa County, at gaging station, on right bank 40 ft (12 m) upstream from bridge on U.S. Highways 6 and 50, 1.6 mi (2.6 km) upstream from mouth, and 1.7 mi (2.7 km) southeast of Loma.

DRAINAGE AREA.--29.3 mi^2 (75.9 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1973 to September 1974.
Water temperatures: April 1973 to September 1974.

EXTREMES, 1973-74.--Specific conductance: Maximum, 10,500 micromhos Jan. 21, 22, 1974; minimum, 815 micromhos Apr. 23, 1973.
Water temperatures: Maximum, 28.0°C June 9, July 9, 10, 1973; minimum, freezing point on many days during January and February.

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

WATER QUALITY DATA, AUGUST 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
AUG., 1973												
07...	167	9.5	250	30	210	80	150	5.5	225	0	185	830
NOV.												
27...	18	11	20	140	510	240	350	12	366	0	300	2300
FEB., 1974												
19...	10	7.3	30	180	500	270	380	13	388	0	318	2400
MAY												
28...	172	8.8	20	20	150	58	81	4.0	170	0	139	530
AUG.												
12...	184	11	20	20	200	72	150	6.8	233	--	191	730

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
AUG., 1973												
07...	120	.3	2.5	.03	1530	850	670	2.2	1910	7.9	20.0	7.3
NOV.												
27...	200	.3	7.7	.05	3840	2300	2000	3.2	4250	7.8	5.0	10.6
FEB., 1974												
19...	220	.5	9.8	.02	4030	2400	2000	3.4	4580	7.8	4.0	12.4
MAY												
28...	65	.3	1.7	.06	989	610	470	1.4	1460	7.8	16.0	8.5
AUG.												
12...	130	.3	2.3	.00	1430	800	600	2.3	1970	--	18.0	7.9

09153300 REED WASH NEAR LOMA, COLO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	1180	1430	1410	2090	1490
2	---	---	---	---	---	---	---	1170	1390	1480	1970	1710
3	---	---	---	---	---	---	4100	1170	1340	1570	1570	2050
4	---	---	---	---	---	---	4650	1180	1480	1670	1730	2100
5	---	---	---	---	---	---	4540	1210	1710	1640	1890	1990
6	---	---	---	---	---	---	4410	1210	1710	1500	2030	2010
7	---	---	---	---	---	---	4340	1210	1760	1530	1870	2000
8	---	---	---	---	---	---	4320	1220	1690	1560	1510	1940
9	---	---	---	---	---	---	4280	1210	1640	1560	1470	1910
10	---	---	---	---	---	---	4230	1210	1620	1630	1390	1950
11	---	---	---	---	---	---	2960	1210	1430	1680	1510	2000
12	---	---	---	---	---	---	1770	1210	1290	1700	1650	2050
13	---	---	---	---	---	---	1500	1200	1160	1650	1770	2020
14	---	---	---	---	---	---	1370	1200	1120	1550	1870	1860
15	---	---	---	---	---	---	1320	1180	1110	1520	2020	1910
16	---	---	---	---	---	---	1260	1160	1120	1530	1820	1940
17	---	---	---	---	---	---	1210	1170	1100	1610	1390	2000
18	---	---	---	---	---	---	1160	4610	1140	1640	1440	2100
19	---	---	---	---	---	---	1060	1430	---	1600	1500	2090
20	---	---	---	---	---	---	945	1180	---	1660	1580	2030
21	---	---	---	---	---	---	949	1050	---	1670	1660	2060
22	---	---	---	---	---	---	950	1070	---	1640	1720	2070
23	---	---	---	---	---	---	954	1420	---	1630	1770	2080
24	---	---	---	---	---	---	1030	1460	---	1710	1840	2070
25	---	---	---	---	---	---	1160	1470	---	1620	1910	2100
26	---	---	---	---	---	---	1160	1440	---	1490	1940	2120
27	---	---	---	---	---	---	1150	1400	---	1600	2030	1930
28	---	---	---	---	---	---	1150	1420	1270	1720	1920	1380
29	---	---	---	---	---	---	1170	1410	1260	1830	1430	1730
30	---	---	---	---	---	---	1180	1420	1330	1890	1400	2070
31	---	---	---	---	---	---	---	1450	---	2090	1430	---

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2040	2400	5730	5860	8840	4600	4780	1130	1650	2090	2390	2370
2	1980	3200	5930	5790	8690	3800	4600	1190	1640	2110	2410	2340
3	1890	4300	6070	5680	8540	2910	4580	1240	1610	2110	2420	2280
4	1810	5060	5620	5620	8410	2670	4580	1270	1640	2090	2460	2250
5	1740	5170	5370	5500	8240	2330	4500	1300	1650	2100	2500	2210
6	1720	5270	5860	5410	8040	1830	4400	1310	1630	2110	2540	2190
7	1950	5320	6440	5380	7870	2440	4370	1380	1600	2060	2600	2150
8	2110	5400	6240	5300	7730	3240	4280	1410	1600	2040	2620	2120
9	1900	5480	5350	5660	7410	3640	4130	1490	1600	2090	2610	2090
10	2140	5570	5490	6030	6920	3810	3800	1460	1590	2090	2620	2100
11	2050	5640	5220	6370	6490	4030	2120	1460	1610	2090	2620	2210
12	1780	5750	5290	6720	5990	4430	1430	1470	1710	2090	2600	2230
13	1650	5810	5430	7080	5960	4370	1400	1490	1740	2110	2610	2180
14	1880	5890	5540	7430	6230	4630	1400	1550	1730	2070	2660	2160
15	1940	5930	5430	7780	6190	4650	1300	1570	1730	2030	2690	2120
16	2010	6000	5290	8160	6280	4800	1400	1730	1760	2020	2700	2100
17	2030	5980	5350	8570	6010	4920	1410	1720	1720	2040	2730	2450
18	2020	5970	5430	8920	5690	5020	1410	1720	1750	2090	2750	2090
19	1860	5840	5100	9010	5570	5090	1370	1660	1800	2130	2730	2110
20	1860	5820	4930	9040	5610	5170	1350	1600	1820	2160	2690	2100
21	1890	5660	4850	9240	5600	5320	1320	1600	1810	2120	2710	2090
22	1920	5540	4900	9850	5600	5320	1300	1590	1800	2110	2750	2080
23	1980	5430	5060	10000	5590	5300	1270	1570	1820	2120	2710	2080
24	2010	5310	5040	10200	5540	5250	1160	1620	1830	2180	2630	2140
25	2020	5210	4840	9990	5530	5190	1140	1590	2000	2170	2560	2140
26	2060	5100	4590	9690	5490	5130	1150	1620	2140	2160	2390	2140
27	2130	4870	4530	9520	5480	5060	1160	1610	2170	2130	2470	2130
28	2190	4790	5410	9200	5290	5000	1150	1600	2220	2120	2460	2100
29	2200	5380	6060	9270	---	4940	1120	1570	2200	2170	2440	2100
30	2230	5540	5960	9130	---	4860	1100	1610	2150	2250	2370	2100
31	2300	---	5910	9000	---	4800	---	1620	---	2330	2380	---

09153300 REED WASH NEAR LOMA, COLO.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	13.0	17.5	20.0	19.0	17.5
2	---	---	---	---	---	---	---	13.5	17.5	20.0	18.5	15.5
3	---	---	---	---	---	---	12.5	14.0	14.5	20.0	19.0	15.5
4	---	---	---	---	---	---	8.5	14.5	14.0	21.0	19.5	16.0
5	---	---	---	---	---	---	9.0	14.0	15.5	21.5	19.5	16.5
6	---	---	---	---	---	---	10.5	12.0	17.5	21.5	19.5	17.0
7	---	---	---	---	---	---	6.5	14.0	19.0	21.5	19.0	18.0
8	---	---	---	---	---	---	6.5	15.0	21.0	22.0	20.0	17.5
9	---	---	---	---	---	---	8.5	16.0	21.5	22.0	20.5	17.0
10	---	---	---	---	---	---	10.0	16.5	21.5	22.5	21.0	17.0
11	---	---	---	---	---	---	10.0	17.0	20.0	22.5	21.5	16.5
12	---	---	---	---	---	---	12.0	17.5	20.5	21.0	21.5	17.5
13	---	---	---	---	---	---	11.5	17.0	18.5	21.5	22.0	17.5
14	---	---	---	---	---	---	12.0	16.5	17.5	21.5	22.5	18.0
15	---	---	---	---	---	---	12.0	16.5	17.0	20.0	22.5	18.5
16	---	---	---	---	---	---	11.5	17.0	16.5	20.5	23.0	19.0
17	---	---	---	---	---	---	11.5	19.0	17.0	21.0	23.5	18.5
18	---	---	---	---	---	---	10.0	---	15.0	18.0	23.5	18.5
19	---	---	---	---	---	---	9.0	15.0	---	19.0	23.5	18.5
20	---	---	---	---	---	---	8.5	16.0	---	19.0	23.0	18.5
21	---	---	---	---	---	---	9.0	16.0	---	18.0	22.0	18.5
22	---	---	---	---	---	---	10.0	16.5	---	18.5	22.0	18.5
23	---	---	---	---	---	---	12.0	17.5	---	18.5	21.0	18.0
24	---	---	---	---	---	---	13.0	16.5	---	18.5	21.5	17.0
25	---	---	---	---	---	---	14.0	15.0	---	18.5	21.0	15.5
26	---	---	---	---	---	---	13.5	13.5	---	18.5	20.0	15.0
27	---	---	---	---	---	---	14.0	12.5	---	18.5	19.0	14.5
28	---	---	---	---	---	---	14.5	13.5	23.0	19.0	18.5	15.0
29	---	---	---	---	---	---	14.5	15.0	22.5	19.5	17.5	16.0
30	---	---	---	---	---	---	14.0	15.5	20.0	19.5	17.5	15.0
31	---	---	---	---	---	---	---	16.0	---	18.5	18.5	---

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.5	8.5	5.5	2.5	2.0	4.5	8.0	13.0	16.0	19.5	20.0	18.0
2	15.0	9.0	6.5	1.0	1.5	4.0	7.0	12.0	16.0	19.0	20.0	18.0
3	15.0	9.5	6.0	0.0	1.0	3.0	7.0	13.5	16.0	19.0	20.0	17.5
4	14.0	9.0	5.5	0.5	0.5	2.0	8.0	14.0	16.0	19.0	20.0	17.0
5	14.0	8.5	4.5	1.0	0.5	2.0	8.5	14.5	15.5	19.0	20.0	17.0
6	15.0	9.0	4.0	1.5	0.5	3.5	9.5	14.5	15.5	18.5	19.5	17.5
7	14.5	8.5	4.0	3.0	0.5	4.5	9.5	15.5	15.0	19.0	19.5	17.5
8	14.0	9.0	4.5	4.0	0.0	5.5	10.0	16.0	14.5	19.0	19.5	17.5
9	12.5	9.0	4.0	4.0	0.0	6.5	10.5	16.5	14.5	19.5	19.0	17.5
10	12.0	8.5	4.0	3.0	0.0	7.5	9.0	15.5	15.0	19.5	18.5	18.0
11	11.0	8.5	4.0	1.0	0.0	8.0	9.5	14.5	16.0	19.5	18.5	17.5
12	10.5	9.0	4.5	1.0	0.0	8.0	9.0	14.5	16.5	19.5	18.5	17.0
13	11.0	9.5	5.5	2.5	0.5	8.5	7.5	13.0	17.0	19.5	19.0	16.5
14	11.5	8.5	6.0	4.0	1.0	9.0	8.5	13.5	17.5	20.0	19.0	16.0
15	11.5	6.5	5.0	4.5	1.5	10.0	9.5	13.5	18.0	20.0	19.0	16.0
16	12.0	6.5	4.0	4.5	1.5	10.5	10.5	14.5	18.0	20.0	19.0	16.0
17	12.0	7.0	4.5	4.0	2.0	10.5	11.5	12.5	18.0	20.0	19.0	15.5
18	12.0	7.0	5.0	3.5	3.5	10.0	12.0	13.5	18.5	20.5	19.0	15.5
19	12.0	8.0	3.0	3.5	3.5	10.0	12.0	13.5	18.5	20.0	18.5	16.0
20	12.0	6.5	2.5	3.5	4.0	8.5	10.5	11.0	18.5	20.0	18.5	16.0
21	11.5	7.0	2.0	2.5	3.0	7.5	12.0	12.0	18.5	20.0	18.0	16.0
22	11.5	6.5	3.0	0.5	2.0	7.5	12.5	12.5	18.5	20.5	18.0	16.0
23	11.5	7.0	4.5	0.0	2.0	9.0	13.0	13.5	18.5	20.5	18.0	16.0
24	10.5	7.0	4.5	0.0	1.0	8.0	13.0	14.0	18.5	20.0	18.0	16.0
25	10.0	7.0	3.5	0.0	1.0	8.5	14.0	14.5	19.0	20.0	18.0	16.0
26	9.5	6.5	2.0	0.0	1.5	9.0	13.5	16.0	19.5	20.0	18.5	15.5
27	9.0	5.0	2.0	1.0	2.5	10.5	12.0	16.0	19.5	20.5	18.5	15.5
28	9.0	4.5	4.0	2.0	3.5	9.0	12.0	16.0	19.5	21.0	18.5	14.5
29	8.5	4.5	5.0	2.5	---	9.0	12.5	14.5	19.5	20.5	18.5	14.0
30	8.5	5.5	5.0	1.0	---	11.0	12.5	15.5	19.5	20.5	18.5	13.5
31	8.0	---	3.0	1.0	---	10.0	---	15.5	---	20.0	18.5	---

09153400 WEST SALT CREEK NEAR MACK, COLO.

LOCATION.--Lat 39°18'31", long 108°58'59", in SW¼NE¼ sec.3, T.9 S., R.104 W., 6th principal meridian, Mesa County, at gaging station, on right bank at upstream side of bridge, 0.8 mi (1.3 km) downstream from Prairie Canyon and 8.7 mi (14.0 km) northwest of Mack.

DRAINAGE AREA.--168 mi^2 (435 km^2).

PERIOD OF RECORD.--Chemical analyses: September 1973 to September 1974.
Water temperatures: October 1973 to September 1974.

EXTREMES, 1973-74.--Specific conductance: Maximum, 12,600 micromhos Mar. 10, 1974; minimum, 868 micromhos July 17, 1974.
Water temperatures: Maximum, 34.5°C July 19, 1974; minimum, 0.5°C Mar. 7, 8, 1974.

REMARKS.--No flow during much of period of record. Daily maximum and minimum specific conductance and temperature data are available in the district office.

WATER QUALITY DATA, SEPTEMBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
SEP., 1973												
12...	.97	6.9	60	0	130	85	310	9.5	142	0	116	1200
26...	.06	5.7	130	40	410	380	510	20	90	0	74	3500

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
SEP., 1973												
12...	31	.5	.40	.02	1840	670	560	5.2	2360	7.8	29.0	6.2
26...	37	.9	1.6	.04	4920	2600	2500	4.4	5418	7.4	10.0	8.4

09153400 WEST SALT CREEK NEAR MACK, COLO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	5230	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	2100	---	---	---	---	---	---
8	---	---	---	---	---	2250	---	---	---	---	1870	---
9	1500	---	---	---	---	---	---	---	---	---	1870	---
10	1610	---	---	---	---	9410	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	2710
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	1590	---	---
17	---	---	---	---	---	---	---	---	---	1860	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	1250	---	---
20	---	---	---	---	---	---	---	---	---	1790	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	1750	---	---
24	---	---	---	---	---	---	---	---	---	2580	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	6.0	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	2.5	---	---	---	---	---	---
8	---	---	---	---	---	3.0	---	---	---	---	13.5	---
9	13.0	---	---	---	---	---	---	---	---	---	14.0	---
10	12.0	---	---	---	---	6.0	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	21.0
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	20.5	---	---
17	---	---	---	---	---	---	---	---	---	23.5	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	23.0	---	---
20	---	---	---	---	---	---	---	---	---	23.5	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	21.0	---	---
24	---	---	---	---	---	---	---	---	---	23.5	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

09163050 BADGER WASH NEAR MACK, COLO.

LOCATION.--Lat 39°17'36", long 108°55'59", in NE¼NW¼ sec.7, T.9 S., R.103 W., 6th principal meridian, Mesa County, at gaging station, on left bank 250 ft (76 m) upstream from bridge, 2.9 mi (4.7 km) upstream from mouth, and 6.0 mi (9.7 km) northwest of Mack.

DRAINAGE AREA.--6.51 mi^2 (16.86 km^2).

PERIOD OF RECORD.--Chemical analyses: June 1973 to September 1974.
Water temperatures: June 1973 to September 1974.

EXTREMES, 1973-74.--Specific conductance: Maximum, 2,120 micromhos July 9, 1974; minimum, 300 micromhos June 19, 1973.
Water temperatures: Maximum, 33.0°C Aug. 20, 1973; minimum, 7.0°C Apr. 14, 1974.

REMARKS.--No flow during most of period from November to April. Daily maximum and minimum specific conductance and temperature data are available in the district office.

WATER QUALITY DATA, AUGUST 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
AUG., 1973												
08...	2.4	.7	50	10	59	13	61	2.7	143	0	117	110
MAY , 1974												
29...	1.2	7.5	50	0	38	8.0	24	1.5	100	0	82	54
AUG.												
13...	5.5	11	20	0	78	17	85	4.3	164	0	135	160

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
AUG., 1973												
08...	84	.3	.00	.00	401	200	84	1.9	694	8.3	21.5	7.7
MAY , 1974												
29...	28	.4	.15	.03	212	130	46	.9	362	7.9	16.5	8.5
AUG.												
13...	110	.3	.24	.01	548	260	130	2.3	907	8.2	19.5	8.3

09163050 BADGER WASH NEAR MACK, COLO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	500	700	915
2	---	---	---	---	---	---	---	---	---	470	725	920
3	---	---	---	---	---	---	---	---	---	435	750	920
4	---	---	---	---	---	---	---	---	---	405	730	925
5	---	---	---	---	---	---	---	---	---	370	710	930
6	---	---	---	---	---	---	---	---	---	340	690	930
7	---	---	---	---	---	---	---	---	---	415	670	935
8	---	---	---	---	---	---	---	---	---	485	650	940
9	---	---	---	---	---	---	---	---	---	560	670	945
10	---	---	---	---	---	---	---	---	---	630	690	945
11	---	---	---	---	---	---	---	---	---	705	705	950
12	---	---	---	---	---	---	---	---	---	775	725	955
13	---	---	---	---	---	---	---	---	---	850	745	955
14	---	---	---	---	---	---	---	---	---	825	760	960
15	---	---	---	---	---	---	---	---	---	795	780	960
16	---	---	---	---	---	---	---	---	---	770	800	965
17	---	---	---	---	---	---	---	---	---	740	810	965
18	---	---	---	---	---	---	---	---	310	715	815	970
19	---	---	---	---	---	---	---	---	300	690	825	970
20	---	---	---	---	---	---	---	---	312	660	835	975
21	---	---	---	---	---	---	---	---	620	635	840	995
22	---	---	---	---	---	---	---	---	415	605	850	1020
23	---	---	---	---	---	---	---	---	400	580	860	1040
24	---	---	---	---	---	---	---	---	600	550	865	1060
25	---	---	---	---	---	---	---	---	450	525	875	1080
26	---	---	---	---	---	---	---	---	400	550	885	1100
27	---	---	---	---	---	---	---	---	370	575	890	1150
28	---	---	---	---	---	---	---	---	420	600	900	1200
29	---	---	---	---	---	---	---	---	325	625	905	1150
30	---	---	---	---	---	---	---	---	530	650	905	1100
31	---	---	---	---	---	---	---	---	---	675	910	---

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1060	1180	---	---	---	---	---	664	450	452	776	---
2	1070	---	---	---	---	---	---	635	450	485	773	1490
3	1080	---	---	---	---	---	---	606	450	666	767	1420
4	1080	---	---	---	---	---	---	577	450	850	775	1350
5	1080	---	---	---	---	---	---	548	450	921	787	---
6	1080	---	---	---	---	---	---	519	460	822	800	1540
7	1080	---	---	---	---	---	---	490	460	697	812	1580
8	1080	---	---	---	---	---	---	461	460	829	967	1730
9	1070	---	---	---	---	---	---	432	460	1020	1280	1490
10	1070	---	---	---	---	---	---	403	456	1110	1170	---
11	1070	---	---	---	---	---	---	374	450	969	1060	1250
12	1230	---	---	---	---	---	---	345	460	956	902	1130
13	1340	---	---	---	---	---	1040	320	460	1210	846	893
14	1230	---	---	---	---	---	953	328	447	1220	833	966
15	1190	---	---	---	---	---	967	335	426	973	875	809
16	1140	---	---	---	---	---	892	343	404	1180	879	822
17	1090	---	---	---	---	---	897	350	382	1010	1000	817
18	1040	---	---	---	---	---	903	358	375	1040	---	800
19	1020	---	---	---	---	---	908	366	385	1260	1320	805
20	1010	---	---	---	---	---	914	373	363	1230	1380	823
21	1020	---	---	---	---	---	919	381	350	948	1690	850
22	1020	---	---	---	---	---	951	388	340	908	---	883
23	1020	---	---	---	---	---	896	396	335	887	1370	916
24	1030	---	---	---	---	---	867	404	332	957	---	960
25	1030	---	---	---	---	---	838	411	350	842	1190	995
26	1040	---	---	---	---	---	809	419	365	778	1090	1030
27	1080	---	---	---	---	---	780	426	399	743	1200	1070
28	1040	---	---	---	---	---	751	434	437	743	---	1110
29	1080	---	---	---	---	---	722	442	473	768	1410	1150
30	1080	---	---	---	---	---	693	450	437	787	1420	1190
31	1140	---	---	---	---	---	---	450	---	793	1420	---

09163050 BADGER WASH NEAR MACK, COLO.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	18.0	20.5	20.0
2	---	---	---	---	---	---	---	---	---	18.0	19.0	19.0
3	---	---	---	---	---	---	---	---	---	18.5	20.5	19.0
4	---	---	---	---	---	---	---	---	---	18.5	20.5	20.5
5	---	---	---	---	---	---	---	---	---	18.5	20.0	19.5
6	---	---	---	---	---	---	---	---	---	19.0	19.5	19.5
7	---	---	---	---	---	---	---	---	---	19.0	18.0	20.5
8	---	---	---	---	---	---	---	---	---	18.5	19.0	19.0
9	---	---	---	---	---	---	---	---	---	19.0	19.0	18.5
10	---	---	---	---	---	---	---	---	---	19.0	19.5	18.5
11	---	---	---	---	---	---	---	---	---	19.5	19.5	17.5
12	---	---	---	---	---	---	---	---	---	20.0	19.5	18.5
13	---	---	---	---	---	---	---	---	---	18.0	20.0	20.0
14	---	---	---	---	---	---	---	---	---	20.0	20.0	19.0
15	---	---	---	---	---	---	---	---	---	18.0	19.5	19.5
16	---	---	---	---	---	---	---	---	---	18.0	20.5	19.5
17	---	---	---	---	---	---	---	---	---	20.0	24.0	19.0
18	---	---	---	---	---	---	---	---	15.5	16.5	24.5	18.5
19	---	---	---	---	---	---	---	---	15.0	17.0	24.0	18.0
20	---	---	---	---	---	---	---	---	16.0	17.5	26.0	18.0
21	---	---	---	---	---	---	---	---	16.5	17.0	23.5	18.0
22	---	---	---	---	---	---	---	---	17.5	17.0	23.5	18.0
23	---	---	---	---	---	---	---	---	18.0	17.0	23.0	17.5
24	---	---	---	---	---	---	---	---	18.0	17.5	23.0	16.5
25	---	---	---	---	---	---	---	---	18.5	17.5	23.0	15.0
26	---	---	---	---	---	---	---	---	18.5	18.0	22.5	14.5
27	---	---	---	---	---	---	---	---	19.0	18.0	22.0	14.5
28	---	---	---	---	---	---	---	---	17.5	18.5	21.5	14.5
29	---	---	---	---	---	---	---	---	18.0	19.0	22.0	15.0
30	---	---	---	---	---	---	---	---	18.5	20.5	20.5	14.5
31	---	---	---	---	---	---	---	---	---	19.0	21.5	---

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.0	9.0	---	---	---	---	---	14.5	19.5	23.0	23.5	---
2	15.0	---	---	---	---	---	---	14.0	17.5	22.5	23.0	16.0
3	15.0	---	---	---	---	---	---	15.0	20.5	24.0	23.0	19.5
4	14.5	---	---	---	---	---	---	16.0	20.5	22.5	23.0	18.5
5	14.5	---	---	---	---	---	---	15.5	17.0	23.0	23.0	---
6	15.0	---	---	---	---	---	---	17.0	16.0	22.0	22.5	20.0
7	14.5	---	---	---	---	---	---	16.0	15.0	22.0	23.0	19.0
8	14.0	---	---	---	---	---	---	18.0	14.0	23.5	21.5	19.0
9	12.5	---	---	---	---	---	---	18.0	14.5	24.5	21.0	20.5
10	12.0	---	---	---	---	---	---	17.0	15.5	22.5	22.0	---
11	11.5	---	---	---	---	---	---	16.5	17.5	23.0	21.5	19.0
12	11.5	---	---	---	---	---	---	16.5	18.5	24.0	21.0	16.5
13	12.0	---	---	---	---	---	9.0	14.5	19.5	23.0	21.5	16.0
14	12.5	---	---	---	---	---	9.0	14.5	20.0	24.0	22.0	15.5
15	13.0	---	---	---	---	---	10.5	15.5	20.5	24.5	22.0	15.0
16	13.5	---	---	---	---	---	11.5	17.5	20.5	24.5	20.0	16.0
17	13.5	---	---	---	---	---	13.0	16.0	19.5	24.5	18.5	15.5
18	13.5	---	---	---	---	---	14.0	17.5	20.5	24.0	---	16.0
19	13.5	---	---	---	---	---	13.0	15.0	20.5	24.0	21.0	16.5
20	13.5	---	---	---	---	---	12.0	13.5	20.5	24.0	15.5	17.0
21	13.0	---	---	---	---	---	13.5	14.0	20.5	24.0	13.5	17.0
22	13.0	---	---	---	---	---	14.5	15.0	20.5	24.5	---	17.0
23	12.5	---	---	---	---	---	15.0	15.5	21.0	24.0	16.5	17.0
24	11.5	---	---	---	---	---	15.0	16.5	21.5	23.5	---	17.0
25	11.0	---	---	---	---	---	16.0	17.5	22.0	23.5	20.5	17.0
26	10.5	---	---	---	---	---	15.5	18.5	22.5	23.5	20.5	16.5
27	10.0	---	---	---	---	---	14.0	20.5	23.0	24.0	22.5	15.5
28	9.5	---	---	---	---	---	14.5	20.0	23.0	24.0	---	13.0
29	9.0	---	---	---	---	---	14.5	18.5	23.5	24.0	22.5	12.0
30	8.5	---	---	---	---	---	14.5	18.5	23.0	24.0	21.5	12.0
31	9.0	---	---	---	---	---	---	20.5	---	24.0	17.5	---

09163310 EAST SALT CREEK NEAR MACK, COLO.

LOCATION.--Lat 39°17'50", long 108°51'58", in SE¼SE¼ sec.3, T.9 S., R.103 W., 6th principal meridian, Mesa County, at gaging station, on right bank 100 ft (30 m) upstream from bridge, 200 ft (61 m) downstream from Dry Canyon Wash, and 5.0 mi (8.0 km) north of Mack.

DRAINAGE AREA.--197 mi^2, (510 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1973 to September 1974.
Water temperatures: July 1973 to September 1974.

EXTREMES, 1973-74.--Specific conductance: Maximum, 13,500 micromhos Apr. 26, 1974: minimum, 787 micromhos Sept. 25, 1973.
Water temperatures: Maximum, 32.5°C June 29, 30, 1974; minimum, freezing point on many days durirg December to March.

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

WATER QUALITY DATA, AUGUST 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
AUG., 1973												
08...	.18	19	570	690	450	250	660	6.3	521	0	427	2700
NOV.												
27...	.30	18	50	350	420	280	850	6.8	472	0	387	3300
FEB., 1974												
20...	.15	2.7	50	470	430	330	990	5.9	605	0	496	3700
MAR.												
08...	2.6	7.9	90	40	110	110	360	7.5	355	0	291	1300
MAY												
29...	1.7	14	50	120	190	84	120	6.4	297	0	244	920
AUG.												
13...	.55	19	30	710	420	210	600	9.6	530	0	435	2400

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
AUG., 1973												
08...	260	.5	.55	.02	4610	2200	1700	6.2	5590	7.4	23.0	9.3
NOV.												
27...	280	.4	1.2	.08	5390	2200	1800	7.9	5720	7.8	5.0	9.7
FEB., 1974												
20...	310	.6	.18	.00	6070	2400	1900	8.7	7060	7.8	2.0	11.9
MAR.												
08...	59	.5	.74	.07	2130	730	440	5.8	2810	7.8	6.5	10.5
MAY												
29...	100	.5	.16	.34	1580	820	580	1.8	2270	7.8	14.0	8.6
AUG.												
13...	220	.4	.33	.02	4140	1900	1500	6.0	4760	7.7	14.5	8.2

09163310 EAST SALT CREEK NEAR MACK, COLO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	3940	1160
2	---	---	---	---	---	---	---	---	---	---	4660	1230
3	---	---	---	---	---	---	---	---	---	---	5160	1250
4	---	---	---	---	---	---	---	---	---	---	5110	1350
5	---	---	---	---	---	---	---	---	---	---	4240	1290
6	---	---	---	---	---	---	---	---	---	---	2090	1250
7	---	---	---	---	---	---	---	---	---	---	2190	1210
8	---	---	---	---	---	---	---	---	---	---	3670	1290
9	---	---	---	---	---	---	---	---	---	---	4940	1220
10	---	---	---	---	---	---	---	---	---	---	4420	1130
11	---	---	---	---	---	---	---	---	---	---	3410	1290
12	---	---	---	---	---	---	---	---	---	---	2560	1250
13	---	---	---	---	---	---	---	---	---	---	2720	1260
14	---	---	---	---	---	---	---	---	---	---	3020	1100
15	---	---	---	---	---	---	---	---	---	---	3090	1040
16	---	---	---	---	---	---	---	---	---	---	2660	1040
17	---	---	---	---	---	---	---	---	---	---	2840	1080
18	---	---	---	---	---	---	---	---	---	---	2760	1100
19	---	---	---	---	---	---	---	---	---	---	2470	1120
20	---	---	---	---	---	---	---	---	---	---	2100	1110
21	---	---	---	---	---	---	---	---	---	---	2110	1140
22	---	---	---	---	---	---	---	---	---	---	2170	1160
23	---	---	---	---	---	---	---	---	---	---	2030	1130
24	---	---	---	---	---	---	---	---	---	---	1940	1190
25	---	---	---	---	---	---	---	---	---	---	1890	1190
26	---	---	---	---	---	---	---	---	---	---	1870	812
27	---	---	---	---	---	---	---	---	---	---	1580	2690
28	---	---	---	---	---	---	---	---	---	---	1490	3790
29	---	---	---	---	---	---	---	---	---	---	1570	3570
30	---	---	---	---	---	---	---	---	---	4490	1310	3330
31	---	---	---	---	---	---	---	---	---	3810	1220	---

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3240	6500	7140	4840	7390	7940	4710	6310	3250	4210	3670	4560
2	3110	5870	7100	5090	7730	7770	3840	6180	3340	4310	3530	4620
3	3020	5860	7140	5140	7730	5120	3280	5970	3280	4840	3450	4710
4	2900	5860	7160	5370	7310	4010	3330	5750	3280	4840	3380	4950
5	2770	5930	6640	5350	6910	4200	3590	5600	3400	4610	3320	5000
6	2640	6260	5090	5850	7140	3530	3950	5460	3880	4630	3290	5100
7	2510	6410	5300	6460	6990	2450	4240	5390	4400	4820	3280	5360
8	2400	6680	5390	7130	6910	2450	5240	5330	4660	4700	3050	5380
9	---	6820	5250	6760	7340	2740	5870	5540	4110	5010	2920	5430
10	---	6970	5110	6570	7600	1750	6370	5550	3780	5290	3460	3780
11	---	7140	5560	6240	7810	1940	6810	5430	3990	4900	3790	3750
12	2810	7390	5910	6440	8140	2400	7330	5420	3660	4650	3680	4600
13	3280	7620	6350	6650	8850	2820	7790	5770	3890	5010	2830	4540
14	3740	7500	5750	7940	9030	3160	8390	6120	3730	5520	2720	4570
15	4180	7550	5530	7870	9360	3530	8960	6470	3720	5580	2730	4440
16	4640	7850	5430	7590	9760	3820	9490	6260	3810	5400	2810	4510
17	5110	8020	5770	7490	10100	4020	9990	6570	4020	3600	2890	5010
18	5520	8330	6220	7720	10500	4200	10500	6000	4100	3490	2970	5420
19	5470	8450	4370	7490	10700	4450	11000	6140	4130	3180	3090	5510
20	5500	8370	4270	7750	8820	4410	11200	5020	4130	3300	3200	5590
21	5570	8080	4540	7920	6840	4030	12000	5320	3520	3410	3270	5660
22	5710	7920	4780	6790	6620	4340	12600	4940	3050	3500	3330	5640
23	5850	8040	5740	5070	6290	4410	12600	4350	3110	3760	3480	5660
24	6000	7890	6380	5280	5980	4180	12400	4030	2850	3720	3430	5750
25	5980	7750	5280	5140	6220	4190	12200	3530	3810	3780	3500	5850
26	5940	7550	5110	5390	6360	4350	10100	3320	4210	3880	3660	5890
27	5970	7360	4470	5630	6600	4300	7710	3210	3600	3940	3800	5850
28	6100	7020	6280	6470	7310	4290	7000	3000	3840	4010	3960	5880
29	6200	6910	6680	7110	---	4300	6570	2950	3980	4570	4130	5890
30	6300	7050	6390	6230	---	4520	6300	3230	4140	4730	4270	5890
31	6400	---	5310	6390	---	4840	---	3180	---	3760	4450	---

09163310 EAST SALT CREEK NEAR MACK, COLO.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	19.5	17.0
2	---	---	---	---	---	---	---	---	---	---	19.5	15.5
3	---	---	---	---	---	---	---	---	---	---	19.5	16.0
4	---	---	---	---	---	---	---	---	---	---	20.0	17.0
5	---	---	---	---	---	---	---	---	---	---	20.5	18.0
6	---	---	---	---	---	---	---	---	---	---	20.0	18.0
7	---	---	---	---	---	---	---	---	---	---	19.5	18.5
8	---	---	---	---	---	---	---	---	---	---	20.0	16.5
9	---	---	---	---	---	---	---	---	---	---	20.0	17.0
10	---	---	---	---	---	---	---	---	---	---	20.0	16.0
11	---	---	---	---	---	---	---	---	---	---	20.5	15.5
12	---	---	---	---	---	---	---	---	---	---	20.5	17.5
13	---	---	---	---	---	---	---	---	---	---	20.5	17.5
14	---	---	---	---	---	---	---	---	---	---	19.5	17.5
15	---	---	---	---	---	---	---	---	---	---	20.0	17.5
16	---	---	---	---	---	---	---	---	---	---	20.5	16.5
17	---	---	---	---	---	---	---	---	---	---	20.0	16.0
18	---	---	---	---	---	---	---	---	---	---	21.0	15.5
19	---	---	---	---	---	---	---	---	---	---	20.0	15.5
20	---	---	---	---	---	---	---	---	---	---	20.5	15.0
21	---	---	---	---	---	---	---	---	---	---	18.5	15.5
22	---	---	---	---	---	---	---	---	---	---	19.5	15.5
23	---	---	---	---	---	---	---	---	---	---	19.5	14.5
24	---	---	---	---	---	---	---	---	---	---	19.5	13.5
25	---	---	---	---	---	---	---	---	---	---	19.0	12.5
26	---	---	---	---	---	---	---	---	---	---	19.0	13.5
27	---	---	---	---	---	---	---	---	---	---	18.0	12.5
28	---	---	---	---	---	---	---	---	---	---	19.0	13.0
29	---	---	---	---	---	---	---	---	---	---	18.5	14.0
30	---	---	---	---	---	---	---	---	---	19.5	17.5	14.0
31	---	---	---	---	---	---	---	---	---	19.0	18.5	---

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.0	14.5	5.5	0.5	1.5	4.0	6.0	14.5	17.5	20.0	19.5	18.0
2	13.5	12.0	4.5	0.5	0.5	4.0	5.5	12.5	17.5	19.0	19.0	18.5
3	13.0	11.0	4.5	0.5	0.0	0.0	6.0	15.5	17.5	20.0	20.0	17.5
4	12.0	9.5	4.5	1.0	0.5	0.0	7.5	16.0	18.5	19.5	20.0	18.0
5	12.5	9.0	4.0	0.5	0.0	0.0	7.5	16.0	15.0	19.5	20.0	18.0
6	14.0	9.5	3.5	0.0	0.0	0.0	8.5	17.0	16.0	19.0	20.0	19.0
7	13.0	9.5	4.0	0.5	0.0	0.0	8.5	18.0	14.0	20.5	20.0	18.5
8	12.5	9.5	4.0	1.0	1.0	1.5	10.0	19.0	13.0	21.0	17.0	18.0
9	9.0	9.5	3.5	1.5	0.0	4.0	9.5	19.0	16.0	20.5	17.5	18.5
10	9.5	9.0	3.0	1.5	0.0	4.5	6.5	17.0	16.5	20.0	19.0	19.0
11	9.5	9.0	3.5	0.0	0.0	6.5	10.0	15.5	16.5	20.5	19.5	18.0
12	10.5	9.5	3.5	0.0	0.0	8.0	7.5	16.0	17.5	20.5	19.5	16.0
13	11.0	9.5	3.5	0.5	0.0	8.0	6.5	14.5	17.5	21.0	20.0	15.0
14	11.5	7.5	4.5	1.5	0.0	9.5	9.0	15.5	19.0	21.5	19.0	16.0
15	12.0	6.5	3.5	2.5	0.0	11.5	11.0	15.5	20.0	21.5	19.5	15.5
16	12.0	7.0	3.0	2.5	0.0	11.5	11.5	16.0	20.0	21.5	19.5	17.0
17	12.0	7.0	3.0	2.5	0.0	12.0	13.0	14.5	18.5	22.5	20.0	16.5
18	12.0	7.5	3.0	2.0	1.0	11.0	12.5	16.0	20.0	21.0	20.0	17.0
19	12.0	7.0	1.5	2.5	1.0	11.0	10.0	15.5	20.0	21.0	18.5	17.0
20	11.5	6.0	1.0	3.0	---	8.5	8.5	12.0	19.5	21.5	18.5	16.5
21	11.5	5.0	1.0	1.5	1.0	7.0	13.0	13.0	19.5	22.5	19.0	16.5
22	11.5	5.0	1.5	0.5	1.0	7.0	14.0	14.5	20.5	22.0	18.5	16.5
23	10.5	6.5	3.0	1.5	1.0	8.0	14.5	15.5	21.0	21.5	18.5	16.5
24	9.5	6.5	1.5	1.5	0.0	6.5	13.5	16.0	20.5	21.0	18.5	16.5
25	9.0	6.0	1.5	1.5	0.0	7.0	16.0	17.0	20.5	21.5	19.5	16.5
26	9.5	5.5	0.5	2.0	0.5	8.0	13.5	19.0	20.0	21.0	19.5	16.0
27	8.0	5.0	0.5	2.5	2.0	9.5	12.0	19.0	20.5	21.5	20.0	14.5
28	8.0	4.0	1.5	2.0	3.0	7.0	12.5	18.5	20.0	21.5	19.5	13.0
29	7.0	4.5	2.5	2.0	---	8.0	12.5	17.0	20.5	20.5	19.5	13.0
30	8.0	5.0	1.5	1.0	---	10.0	13.5	17.5	20.5	20.5	19.5	13.0
31	9.5	---	1.0	2.0	---	9.0	---	17.5	---	19.5	19.0	---

09163340 MACK WASH NEAR MACK, COLO.

LOCATION.--Lat 39°15'57", long 108°50'32", in NE¼NW¼ sec.8, T.2 N., R.3 W., Ute Meridian, Mesa County, at gaging station, on right bank just downstream from culvert under R Road, 0.2 mi (0.3 km) downstream from Highline Lake dam, and 3.1 mi (5.0 km) north of Mack.

DRAINAGE AREA.--15.9 mi^2 (41.2 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1973 to September 1974.
Water temperatures: July 1973 to September 1974.

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

WATER QUALITY DATA, AUGUST 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
AUG., 1973												
08...	7.8	1.6	520	50	440	130	200	5.4	227	0	186	1700
NOV.												
27...	2.4	11	10	58	530	150	240	8.4	262	0	215	1900
FEB., 1974												
20...	2.2	6.7	20	88	520	150	230	8.4	250	0	205	1900
MAY												
28...	32	7.8	10	0	120	33	110	3.9	163	0	134	380
AUG.												
12...	33	8.0	20	0	120	34	100	4.2	135	--	111	410

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
AUG., 1973												
08...	140	.7	.57	.00	2730	1600	1400	2.2	3000	7.7	15.0	8.1
NOV.												
27...	150	.3	3.9	.05	3140	1900	1700	2.4	3490	7.7	10.0	8.6
FEB., 1974												
20...	160	.5	2.2	.01	3110	1900	1700	2.3	3540	7.6	7.0	9.4
MAY												
28...	120	.3	.37	.01	857	440	300	2.3	1310	8.1	18.5	8.4
AUG.												
12...	98	.3	.30	.00	842	440	330	2.1	1270	--	21.5	7.6

09163340 MACK WASH NEAR MACK, COLO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	1500	1500
2	---	---	---	---	---	---	---	---	---	---	1600	1500
3	---	---	---	---	---	---	---	---	---	---	1850	1400
4	---	---	---	---	---	---	---	---	---	---	2400	1400
5	---	---	---	---	---	---	---	---	---	---	2700	1300
6	---	---	---	---	---	---	---	---	---	---	2400	1200
7	---	---	---	---	---	---	---	---	---	---	3100	1200
8	---	---	---	---	---	---	---	---	---	---	3400	1100
9	---	---	---	---	---	---	---	---	---	---	3400	1100
10	---	---	---	---	---	---	---	---	---	---	2900	1000
11	---	---	---	---	---	---	---	---	---	---	2800	900
12	---	---	---	---	---	---	---	---	---	---	2300	950
13	---	---	---	---	---	---	---	---	---	---	2200	1000
14	---	---	---	---	---	---	---	---	---	---	1950	1020
15	---	---	---	---	---	---	---	---	---	---	2100	1050
16	---	---	---	---	---	---	---	---	---	---	2100	1080
17	---	---	---	---	---	---	---	---	---	---	2200	1100
18	---	---	---	---	---	---	---	---	---	---	2200	1120
19	---	---	---	---	---	---	---	---	---	---	3000	1150
20	---	---	---	---	---	---	---	---	---	---	2500	1180
21	---	---	---	---	---	---	---	---	---	---	3000	1180
22	---	---	---	---	---	---	---	---	---	---	3000	1200
23	---	---	---	---	---	---	---	---	---	---	3100	1200
24	---	---	---	---	---	---	---	---	---	---	3400	1200
25	---	---	---	---	---	---	---	---	---	---	3000	1220
26	---	---	---	---	---	---	---	---	---	---	3200	1220
27	---	---	---	---	---	---	---	---	---	---	3200	1220
28	---	---	---	---	---	---	---	---	---	---	1700	1300
29	---	---	---	---	---	---	---	---	---	---	1700	1400
30	---	---	---	---	---	---	---	---	---	---	1600	1450
31	---	---	---	---	---	---	---	---	---	300	1600	---

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1280	4800	4100	4030	4100	3910	3820	1190	1230	4050	2430	2520
2	1280	4800	4100	4030	4100	3890	3800	1200	1210	4050	3130	2200
3	1280	4800	4100	4020	4100	3880	3820	1550	1160	4040	3220	2080
4	1280	4800	4100	4020	4100	3850	3830	1920	1110	4040	2960	1970
5	1280	4800	4100	4020	4110	3830	3830	2300	1120	4050	2950	1640
6	1280	4800	4100	4010	4120	3800	3830	2520	1070	4080	2350	1500
7	1280	4800	4100	4010	4110	3830	3830	2730	1060	4090	2170	1450
8	1280	4800	4100	4000	4100	3860	3840	2950	1050	4070	2280	1420
9	1280	4800	4090	4000	4100	3930	3850	3170	1050	4050	1720	1400
10	1280	4800	4090	4000	4090	3900	3830	3380	1070	4050	1550	1390
11	1270	4800	4090	4000	4090	3910	3880	3600	1160	4090	1510	1410
12	1260	4800	4090	4000	4100	3910	3910	3820	1220	4100	1470	1420
13	1250	4800	4090	4000	4120	3880	3900	4040	1260	4160	1400	1410
14	1240	4800	4090	4000	4110	3870	1960	4250	1400	4170	1370	1360
15	1230	4800	4080	4000	4120	3830	1530	4470	1620	4160	1410	1330
16	1220	4800	4080	4100	4110	3810	1410	4410	2170	4180	1450	1320
17	1210	4800	4080	4100	4100	3790	1370	4360	2770	4150	1490	1330
18	1200	4800	4080	4100	4100	3770	1330	4320	1970	4150	1510	1320
19	1200	4800	4080	4100	4100	3780	1300	4260	1830	3310	1600	1310
20	1200	4800	4070	4100	4120	3800	1260	4180	2200	1960	1900	1310
21	1200	4800	4070	4100	4110	3810	1220	4130	2980	1640	2380	1290
22	1200	4700	4070	4100	4090	3820	1180	4080	3590	1600	2900	1300
23	1200	4600	4070	4100	4070	3820	1180	4020	3880	1610	3120	1290
24	1200	4500	4060	4100	4060	3820	1180	3970	3990	1650	3300	1300
25	1210	4400	4060	4100	4040	3830	1150	3920	4040	1670	3230	1310
26	1230	4300	4060	4100	4010	3830	1220	2700	4030	1620	2450	1320
27	1240	4200	4050	4100	3990	3840	1250	1700	4040	1660	1970	1350
28	1260	4100	4050	4100	3940	3830	1210	1550	4040	1630	2230	1360
29	1270	4100	4040	4100	---	3830	1180	1430	4040	1620	2430	1350
30	1290	4100	4040	4100	---	3840	1210	1280	4050	1850	2980	1350
31	1300	---	4040	4100	---	3820	---	1250	---	2070	3170	---

09163340 MACK WASH NEAR MACK, COLO.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	21.0	15.0
2	---	---	---	---	---	---	---	---	---	---	20.5	14.0
3	---	---	---	---	---	---	---	---	---	---	19.0	14.0
4	---	---	---	---	---	---	---	---	---	---	17.0	16.5
5	---	---	---	---	---	---	---	---	---	---	16.0	19.5
6	---	---	---	---	---	---	---	---	---	---	16.5	20.0
7	---	---	---	---	---	---	---	---	---	---	15.0	20.5
8	---	---	---	---	---	---	---	---	---	---	14.5	19.5
9	---	---	---	---	---	---	---	---	---	---	14.0	19.5
10	---	---	---	---	---	---	---	---	---	---	14.5	19.0
11	---	---	---	---	---	---	---	---	---	---	15.0	18.5
12	---	---	---	---	---	---	---	---	---	---	16.0	19.0
13	---	---	---	---	---	---	---	---	---	---	16.5	19.5
14	---	---	---	---	---	---	---	---	---	---	16.0	19.0
15	---	---	---	---	---	---	---	---	---	---	16.0	18.5
16	---	---	---	---	---	---	---	---	---	---	16.0	18.0
17	---	---	---	---	---	---	---	---	---	---	15.0	18.0
18	---	---	---	---	---	---	---	---	---	---	14.5	18.0
19	---	---	---	---	---	---	---	---	---	---	13.5	18.0
20	---	---	---	---	---	---	---	---	---	---	13.0	18.0
21	---	---	---	---	---	---	---	---	---	---	12.0	18.0
22	---	---	---	---	---	---	---	---	---	---	11.0	18.5
23	---	---	---	---	---	---	---	---	---	---	---	17.5
24	---	---	---	---	---	---	---	---	---	---	---	17.5
25	---	---	---	---	---	---	---	---	---	---	---	17.0
26	---	---	---	---	---	---	---	---	---	---	---	16.0
27	---	---	---	---	---	---	---	---	---	---	---	16.0
28	---	---	---	---	---	---	---	---	---	---	19.5	15.5
29	---	---	---	---	---	---	---	---	---	---	18.0	---
30	---	---	---	---	---	---	---	---	---	23.0	16.5	---
31	---	---	---	---	---	---	---	---	---	21.5	16.0	---

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	11.5	---	---	5.0	9.5	9.0	14.0	19.5	14.0	18.0	17.0
2	---	---	---	---	4.0	9.5	8.5	14.0	19.5	14.0	15.5	18.5
3	---	---	---	---	3.0	9.0	9.0	13.5	19.0	14.5	15.5	19.0
4	---	---	---	---	5.0	9.0	9.5	14.0	18.5	14.0	17.0	19.0
5	---	---	---	---	8.5	9.0	9.5	13.5	19.0	14.0	18.5	20.0
6	---	---	10.0	---	8.0	9.5	9.5	13.5	18.0	14.0	19.5	20.5
7	---	---	9.0	---	8.5	8.5	9.5	13.5	17.5	14.0	19.5	21.0
8	---	---	8.5	---	9.0	9.0	10.0	14.0	16.5	14.0	18.5	20.5
9	---	---	8.0	---	9.0	10.0	9.5	14.0	17.5	14.5	20.5	21.0
10	15.0	---	7.0	---	9.0	9.5	9.5	13.0	18.0	14.0	21.0	21.0
11	14.5	---	7.0	---	9.0	10.0	9.5	12.5	19.5	14.0	21.0	20.5
12	14.0	---	7.0	---	8.5	10.0	9.0	13.5	19.5	14.0	21.5	20.0
13	---	---	---	---	8.0	10.0	9.0	12.0	19.5	14.0	21.5	20.0
14	---	---	---	---	8.0	10.5	9.0	11.5	20.5	14.0	21.5	19.5
15	---	---	---	---	8.5	11.0	10.0	12.0	20.5	14.0	21.0	19.0
16	---	---	---	---	8.5	11.0	10.0	12.0	19.0	14.5	21.0	19.0
17	---	---	---	---	8.5	10.5	11.5	10.5	16.5	14.0	21.0	19.0
18	14.0	---	---	---	9.0	10.5	12.0	11.5	19.5	14.5	21.5	18.5
19	14.0	---	---	---	8.5	10.5	11.0	11.5	20.5	17.5	21.0	19.0
20	14.0	11.0	---	---	9.0	10.0	11.5	10.0	19.0	23.0	19.5	19.0
21	13.5	10.0	---	---	8.5	9.5	11.5	11.0	16.5	24.5	17.5	19.0
22	13.5	10.0	---	---	8.5	9.0	13.0	11.5	15.0	24.5	16.5	19.0
23	13.5	10.5	---	8.0	8.0	9.5	13.0	11.5	14.5	24.5	15.0	19.0
24	13.0	10.5	---	7.5	8.0	9.5	13.0	11.5	14.0	23.5	15.0	19.0
25	13.0	10.0	---	7.0	8.0	9.5	13.5	12.0	14.5	23.5	15.0	18.5
26	12.5	10.0	---	7.0	8.0	10.0	12.5	15.0	14.5	24.0	18.0	18.0
27	12.5	9.5	---	6.5	8.5	10.5	12.5	17.5	14.5	24.0	20.0	17.5
28	12.0	9.5	---	6.5	9.0	9.0	13.0	17.5	14.0	23.5	19.0	17.0
29	12.0	9.5	---	6.0	---	10.0	14.0	17.5	14.5	23.5	17.5	17.0
30	11.0	---	---	5.0	---	10.0	14.0	18.0	14.5	22.5	16.0	16.5
31	11.0	---	---	4.5	---	9.5	---	18.5	---	20.5	15.5	---

09163490 SALT CREEK NEAR MACK, COLO.

LOCATION.--Lat 39°13'18", long 108°53'32", in NE¼NW¼ sec.4, T.10 S., R.103 W., 6th principal meridian, Mesa County, at gaging station, on right bank 800 ft (240 m) downstream from bridge on Interstate Highway 70, 1.4 mi (2.3 km) west of Mack, and 2.1 mi (3.4 km) upstream from mouth.

DRAINAGE AREA.--436 mi^2 (1,129 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1973 to September 1974.
Water temperatures: April 1973 to September 1974.

EXTREMES, 1973-74.--Specific conductance: Maximum, 5,260 micromhos Apr. 10, 1974; minimum, 777 micromhos, May 7, 1974.
Water temperatures: Maximum, 28.5°C June 29, July 28, 29, 1974; minimum, freezing point on many days during November to March.

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

WATER QUALITY DATA, AUGUST 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
AUG., 1973												
08...	122	4.4	1500	30	200	77	140	4.7	122	0	100	780
NOV.												
28...	18	12	60	170	500	250	420	9.7	360	0	295	2500
FEB., 1974												
20...	10	4.5	20	210	470	250	480	10	351	0	288	2600
MAR.												
08...	21	9.0	30	100	290	160	350	11	266	0	218	1800
MAY												
29...	109	9.0	20	30	160	60	110	4.4	185	0	152	610
AUG.												
13...	148	11	130	20	180	68	130	6.5	215	0	176	660

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
AUG., 1973												
08...	120	.5	.71	.01	1390	820	720	2.1	1890	7.8	17.5	9.0
NOV.												
28...	200	.4	5.5	.04	4090	2300	2000	3.8	4390	7.9	1.0	12.1
FEB., 1974												
20...	210	.5	2.4	.00	4210	2200	1900	4.5	4710	7.7	.0	13.0
MAR.												
08...	120	.4	3.2	.37	2890	1400	1200	4.1	3360	7.7	3.0	11.2
MAY												
29...	78	.3	1.2	.06	1130	650	490	1.9	1590	7.9	16.0	8.9
AUG.												
13...	120	.3	1.4	.01	1290	730	550	2.1	1860	8.0	18.5	8.4

09163490 SALT CREEK NEAR MACK, COLO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	1470	1330	2030	2550	1300
2	---	---	---	---	---	---	---	1270	1280	2100	2390	1000
3	---	---	---	---	---	---	---	1070	1220	2040	2150	933
4	---	---	---	---	---	---	4980	1070	1270	1620	2180	965
5	---	---	---	---	---	---	4910	1040	1380	1680	2070	1000
6	---	---	---	---	---	---	4810	1030	1380	1890	1910	1040
7	---	---	---	---	---	---	4610	991	1390	2010	1840	1070
8	---	---	---	---	---	---	1520	967	1100	2020	2020	1100
9	---	---	---	---	---	---	4540	945	1040	2060	2020	1140
10	---	---	---	---	---	---	4530	1080	980	2090	1950	1180
11	---	---	---	---	---	---	4420	1170	990	2120	1910	1620
12	---	---	---	---	---	---	3710	1110	1000	2190	1760	1730
13	---	---	---	---	---	---	3840	1080	1020	2200	1700	1720
14	---	---	---	---	---	---	3890	1070	1040	2190	1670	1770
15	---	---	---	---	---	---	3900	1120	1090	2180	1670	1840
16	---	---	---	---	---	---	3460	1160	1080	2180	1610	1880
17	---	---	---	---	---	---	1930	1190	1100	2170	1920	1920
18	---	---	---	---	---	---	1340	1220	1100	2170	2200	1920
19	---	---	---	---	---	---	1230	1240	1160	2120	2190	1890
20	---	---	---	---	---	---	1000	1250	1230	2090	2130	1870
21	---	---	---	---	---	---	---	1200	1300	1910	2220	1730
22	---	---	---	---	---	---	---	886	1360	1710	2120	1620
23	---	---	---	---	---	---	---	1020	1420	1640	2080	1570
24	---	---	---	---	---	---	---	1240	1490	1620	2020	1520
25	---	---	---	---	---	---	1480	1160	1560	1690	1960	1550
26	---	---	---	---	---	---	1470	1020	1620	1840	1900	1800
27	---	---	---	---	---	---	1510	972	1680	1880	1940	1820
28	---	---	---	---	---	---	1510	1030	1680	1900	1930	---
29	---	---	---	---	---	---	1550	1100	2190	2170	1750	---
30	---	---	---	---	---	---	1540	1030	1990	2220	1760	---
31	---	---	---	---	---	---	---	1030	---	2580	1780	---

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	2840	5340	5840	6800	4630	5480	1260	1420	1710	2270	2090
2	---	4020	5300	6030	7010	4520	5280	1280	1460	1760	2320	2110
3	---	5210	5270	6160	7190	4170	5170	1300	1480	1790	2360	2120
4	---	5310	5230	6080	7390	3510	5210	1310	1480	1780	2400	2130
5	---	5490	5210	5950	7210	3540	5270	1330	1520	1920	2410	2140
6	---	5740	5190	5910	7030	3210	5350	1340	1550	1960	2430	2170
7	---	4860	5180	5960	6870	2800	5440	1360	1560	2000	2460	2200
8	---	5940	5210	5970	6890	3060	5520	1450	1540	2020	2540	2220
9	1620	5980	5210	5980	6740	2970	5600	1490	1550	2020	2770	2240
10	1630	6000	5220	6000	6610	3210	5680	1530	1510	2090	2560	2050
11	1650	6110	5220	6050	6450	3420	5110	1530	1430	2090	2500	1780
12	1660	6120	5240	5980	6250	3660	5020	1500	1440	2110	2300	1760
13	1650	6120	5220	5850	6020	3880	4660	1380	1460	2120	1840	1750
14	1690	6120	5280	5770	5840	4090	1900	1220	1510	2140	1760	1730
15	1730	6110	5310	5730	5680	4300	1330	1280	1550	2160	1760	1690
16	1790	6220	5300	5710	5550	4490	1020	1350	1550	2060	1810	1700
17	1850	6210	5280	5660	5420	4670	911	1410	1590	2590	1860	1720
18	1850	6220	5320	5640	5210	4860	831	1480	1670	2310	1890	1750
19	1660	6240	5360	5630	5090	5040	788	1520	1740	1580	1900	1800
20	1600	6240	5460	5570	4940	5080	992	1460	1760	1790	1930	1830
21	1640	6210	5330	5320	4960	5110	1200	1450	1810	1880	1960	1820
22	1690	6210	5130	5310	4970	5140	1400	1500	1810	1930	1980	1840
23	1740	6170	5250	5770	4980	5160	1140	1590	1840	2030	1950	1880
24	1800	6020	5390	5920	5080	5100	1160	1620	1660	2110	1930	1920
25	1830	5910	5460	6080	5030	5090	1170	1680	1490	2170	1920	1940
26	1850	5800	5570	5990	4820	5200	1180	1740	1560	2240	1940	1950
27	1880	5700	5610	6040	4790	5220	1200	1750	1610	2320	1940	1980
28	1900	5510	5530	6160	4840	5240	1220	1660	1620	2380	2000	2010
29	1930	5400	5600	6300	---	5300	1230	1470	1650	2440	2020	2040
30	1890	5360	5670	6580	---	5340	1250	1440	1680	2370	2050	2040
31	1810	---	5780	6720	---	5400	---	1440	---	2230	2070	---

09163490 SALT CREEK NEAR MACK, COLO.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	12.5	17.5	21.5	20.5	18.0
2	---	---	---	---	---	---	---	14.0	18.0	21.0	20.5	16.0
3	---	---	---	---	---	---	---	14.5	16.0	21.0	21.0	16.0
4	---	---	---	---	---	---	12.0	15.0	15.5	22.0	21.5	16.5
5	---	---	---	---	---	---	9.5	13.5	19.0	22.0	21.0	17.5
6	---	---	---	---	---	---	11.0	11.5	18.0	21.0	21.0	18.0
7	---	---	---	---	---	---	6.5	14.0	19.0	22.0	20.5	18.5
8	---	---	---	---	---	---	6.0	15.5	20.0	21.5	21.0	17.5
9	---	---	---	---	---	---	8.5	16.5	20.5	22.0	21.0	17.5
10	---	---	---	---	---	---	10.0	16.5	20.5	22.0	20.5	16.5
11	---	---	---	---	---	---	12.0	17.0	19.0	22.0	21.0	16.5
12	---	---	---	---	---	---	13.0	17.0	19.5	21.0	21.0	17.5
13	---	---	---	---	---	---	12.5	16.5	18.0	20.5	21.0	17.5
14	---	---	---	---	---	---	11.5	16.0	16.5	22.0	20.5	17.5
15	---	---	---	---	---	---	11.0	16.0	16.0	21.5	20.5	17.5
16	---	---	---	---	---	---	11.0	16.5	15.5	21.5	21.0	17.0
17	---	---	---	---	---	---	11.5	17.0	15.0	21.5	21.0	16.0
18	---	---	---	---	---	---	10.0	18.0	14.5	21.0	22.0	16.0
19	---	---	---	---	---	---	10.0	18.0	14.0	20.5	21.5	15.5
20	---	---	---	---	---	---	10.0	18.0	15.5	20.5	21.5	15.5
21	---	---	---	---	---	---	10.5	17.0	16.0	20.5	21.0	16.0
22	---	---	---	---	---	---	11.0	17.0	16.5	20.5	21.0	16.0
23	---	---	---	---	---	---	11.0	17.5	16.5	21.0	20.5	15.0
24	---	---	---	---	---	---	12.0	17.0	16.0	21.0	20.5	14.5
25	---	---	---	---	---	---	13.5	15.5	17.0	21.5	20.0	13.5
26	---	---	---	---	---	---	13.5	15.0	18.0	20.5	20.0	13.5
27	---	---	---	---	---	---	14.5	14.5	19.0	20.0	19.0	11.0
28	---	---	---	---	---	---	14.5	16.0	19.0	21.0	19.5	---
29	---	---	---	---	---	---	14.5	17.0	22.0	21.5	18.5	---
30	---	---	---	---	---	---	13.5	17.5	21.5	21.5	18.0	---
31	---	---	---	---	---	---	---	18.0	---	20.5	19.0	---

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	9.0	3.0	-0.5	-0.5	2.0	7.5	15.0	19.0	21.5	21.0	17.5
2	---	9.0	4.0	-0.5	-0.5	2.0	7.0	13.0	19.0	20.5	21.0	18.5
3	---	8.5	3.5	-0.5	-0.5	1.5	7.5	15.5	19.0	21.5	21.0	17.0
4	---	8.0	3.0	-0.5	-0.5	1.5	9.0	16.5	19.0	20.5	21.5	17.5
5	---	7.5	1.5	-0.5	-0.5	1.5	9.0	16.0	16.5	21.0	21.5	17.0
6	---	8.0	0.5	-0.5	-0.5	2.0	10.0	17.0	17.0	21.0	20.5	18.0
7	---	7.5	0.5	-0.5	-0.5	1.5	10.0	17.5	16.0	21.5	21.0	18.0
8	---	8.5	1.0	-0.5	0.0	3.0	11.0	18.5	14.0	22.0	18.5	18.0
9	12.0	8.0	0.5	-0.5	0.0	5.5	10.5	19.0	16.0	22.0	18.5	18.5
10	12.0	7.5	0.0	0.0	0.5	6.5	9.5	18.0	17.5	21.5	19.5	19.0
11	11.5	7.0	0.5	-0.5	0.5	8.0	10.0	16.0	18.5	21.0	19.5	18.0
12	11.5	7.5	1.5	-0.5	-0.5	8.0	8.5	16.5	19.0	21.0	19.5	16.0
13	12.0	8.5	2.5	-0.5	-0.5	8.5	7.0	15.0	20.0	21.5	20.0	15.5
14	12.5	7.0	3.5	0.5	-0.5	9.0	9.0	15.5	20.5	22.5	19.5	16.5
15	12.5	4.5	2.5	1.0	-0.5	11.0	10.5	15.5	21.5	22.0	20.0	15.5
16	12.5	5.0	0.5	1.5	-0.5	11.0	11.0	17.0	21.0	20.0	19.5	16.5
17	13.0	5.0	1.0	1.5	-0.5	11.0	12.0	15.0	20.5	22.5	20.0	16.0
18	12.5	5.5	2.0	1.5	-0.5	10.0	12.5	16.0	21.0	22.0	20.0	16.5
19	12.5	6.0	0.0	1.5	-0.5	10.5	11.5	15.5	21.0	22.5	19.0	16.5
20	12.5	4.5	-0.5	1.0	-0.5	8.5	10.5	12.5	21.0	22.0	19.0	16.5
21	12.5	4.5	-0.5	-0.5	0.0	7.5	12.5	13.5	19.5	23.5	18.5	16.5
22	12.0	4.0	-0.5	-0.5	0.0	7.0	13.5	15.0	20.5	23.0	18.0	16.5
23	12.0	5.0	0.5	-0.5	0.0	8.5	14.5	15.5	21.0	23.0	18.0	16.5
24	11.0	5.0	1.5	-0.5	-0.5	7.5	13.5	17.0	21.0	22.0	18.5	16.5
25	10.5	5.0	0.5	-0.5	-0.5	8.5	15.0	17.5	22.0	22.5	19.0	16.5
26	10.5	4.0	-0.5	-0.5	-0.5	9.5	14.0	19.0	22.0	22.0	19.0	15.5
27	10.0	2.0	-0.5	-0.5	0.0	11.5	13.0	19.0	22.0	23.0	20.0	13.5
28	9.5	1.0	0.0	-0.5	0.5	9.0	13.5	19.0	22.0	23.0	19.5	12.5
29	9.0	1.0	2.0	-0.5	---	9.5	14.0	18.0	22.5	22.5	19.5	13.0
30	9.0	2.5	2.0	-0.5	---	11.5	14.5	18.0	22.0	22.0	19.0	13.0
31	9.0	---	-0.5	-0.5	---	10.0	---	18.5	---	21.5	18.5	---

09163530 COLORADO RIVER BELOW COLORADO-UTAH STATE LINE

LOCATION.--Lat 39°05'18", long 109°06'01", in NE¼NW¼ sec.12, T.20 S., R.25 E., Grand County, on right bank 0.3 mi (0.5 km) downstream from Bitter Creek, 1.0 mi (1.6 km) northeast of Westwater, Utah, and 4.0 mi (6.4 km) downstream from Colorado-Utah State line.

DRAINAGE AREA.--18,034 mi^2 (46,708 km^2).

PERIOD OF RECORD.--Chemical analyses: May 1962 to June 1969, October 1972 to September 1974.
Water temperatures: May 1961 to June 1969, October 1972 to September 1974.

EXTREMES, 1973-74.--Specific conductance: Maximum, 1,770 micromhos Nov. 18, 1973; minimum, 365 micromhos May 12, 1974.
Water temperatures: Maximum, 26.0°C July 22, 28, 29, 1974; minimum, freezing point many days during January and February.
Period of record.--Specific conductance (1962-69, 1973-74): Maximum, 5,140 micromhos Mar. 17, 1969; minimum, 357 micromhos June 22, 1965.
Water temperatures: Maximum, 28°C July 30, 1966, July 13, 1968; minimum, freezing point on many days during winter months.

REMARKS.--Records of discharge are given for Colorado River near Colorado-Utah State line.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
NOV., 1973												
28...	4540	12	20	0	99	34	99	4.3	181	0	148	350
DEC.												
17...	4160	12	20	30	92	32	96	4.0	187	0	153	300

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
NOV., 1973												
28...	82	.4	.83	.02	774	390	240	2.2	1100	8.3	1.0	11.2
DEC.												
17...	80	.4	.81	.02	712	360	210	2.2	1084	8.2	1.0	11.0

09163530 COLORADO RIVER BELOW COLORADO-UTAH STATE LINE--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1500	1280	1230	---	1040	1020	1010	581	471	719	1370	1980
2	1550	1280	1210	---	1060	1020	978	593	492	768	1420	1980
3	1580	1290	1230	---	1070	1020	1010	568	529	818	1500	1970
4	1580	1360	1240	---	1030	1100	1020	545	555	906	1540	1970
5	1590	1480	1250	---	993	1090	1090	518	577	999	1570	1930
6	1620	1560	1260	---	1080	1020	1160	500	607	1050	1590	1920
7	1630	1580	1270	---	1090	1010	1170	486	617	1110	1610	1900
8	1650	1600	1310	---	1040	1020	1170	462	628	1170	1630	1880
9	1590	1580	1320	---	1030	1040	1190	435	676	1230	1670	1880
10	1510	1590	1380	---	1020	1040	1230	395	738	1260	1670	1870
11	1520	1600	1360	---	1040	1030	1230	375	771	1250	1670	1880
12	1530	1560	1350	---	1050	1060	1220	375	779	1260	1640	1860
13	1470	1560	1360	---	1060	1040	1180	385	772	1270	1650	1780
14	1430	1590	1380	---	1100	1020	1160	389	744	1300	1650	1700
15	1420	1580	1370	---	1090	1080	1140	429	668	1340	1680	1650
16	1410	1580	1370	---	1110	1080	1110	479	610	---	1680	1600
17	1420	1580	1390	---	1080	1050	1120	496	583	---	1710	1600
18	1420	1660	1410	---	1090	1030	1110	469	575	1400	1710	1590
19	1460	1380	1400	---	1100	1000	1060	476	570	1400	1770	1500
20	1460	1220	1310	---	1090	987	963	471	571	1310	1850	1500
21	1420	1260	1260	---	1080	978	890	481	514	1360	1860	1490
22	1370	1210	1250	1030	1070	974	911	500	539	1330	1870	1530
23	1330	1190	1300	982	1040	983	960	541	548	1380	1900	1570
24	1300	1190	1380	960	1030	1020	960	571	557	1200	1930	1590
25	1380	1190	1400	953	1030	1080	885	588	579	1140	1950	1600
26	1420	1200	1380	951	1010	1040	794	590	599	1130	1980	1620
27	1410	1130	1360	970	1020	1060	645	579	612	1170	1990	1670
28	1380	1130	---	1070	1020	1070	568	542	630	1230	2000	1710
29	1330	1200	---	1210	---	1040	553	489	644	1320	2020	1720
30	1310	1330	---	1090	---	1040	560	471	680	1370	2020	1720
31	1300	---	---	1040	---	1030	---	461	---	1360	2050	---

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.0	9.5	5.0	---	0.5	4.0	8.0	11.0	16.0	22.0	22.5	20.0
2	16.0	10.0	5.5	---	0.0	4.0	7.0	11.0	16.5	21.0	22.5	19.5
3	16.0	9.5	5.0	---	1.0	4.0	6.0	10.5	16.5	22.0	22.5	19.5
4	15.5	9.0	4.0	---	0.5	3.5	6.5	11.0	17.0	22.0	22.0	19.5
5	15.0	8.5	3.5	---	0.5	3.5	7.0	10.5	16.0	23.0	22.0	19.5
6	15.5	8.5	2.0	---	0.5	4.0	8.0	10.5	15.0	23.0	22.0	20.0
7	15.0	8.5	1.5	---	0.5	4.5	9.0	10.5	15.0	21.5	21.0	20.5
8	14.5	9.0	1.5	---	0.5	4.5	9.5	10.5	13.5	23.0	20.5	20.5
9	13.5	9.5	2.0	---	0.5	5.5	9.5	13.0	13.5	22.5	20.5	21.0
10	13.0	9.5	1.5	---	0.5	6.0	8.5	12.5	15.5	23.0	20.5	21.5
11	12.5	9.5	1.5	---	0.5	6.0	9.5	11.5	17.5	22.5	20.0	21.0
12	12.0	9.0	1.5	---	0.5	6.0	9.0	11.0	19.0	22.5	20.0	19.5
13	12.5	9.5	1.5	---	0.5	7.0	8.0	11.5	19.5	23.5	19.5	18.5
14	13.0	9.0	2.0	---	0.5	7.5	8.5	11.0	20.0	25.5	19.0	18.5
15	13.5	7.5	2.5	---	1.5	8.5	10.0	10.5	20.0	23.5	18.0	18.0
16	14.0	7.0	2.0	---	1.5	9.5	11.5	11.0	19.5	20.5	18.0	18.5
17	14.0	6.5	2.0	---	1.5	10.0	12.5	11.0	19.0	---	19.0	18.5
18	14.0	6.5	2.0	---	2.5	9.5	14.0	10.5	19.0	24.5	19.0	18.5
19	14.0	7.0	1.5	---	2.5	8.5	13.0	11.0	19.0	24.0	19.0	19.0
20	13.5	6.0	1.0	---	2.5	8.0	12.0	10.5	19.5	24.0	18.0	19.0
21	13.5	6.0	1.0	---	2.0	7.5	12.5	10.0	18.5	24.5	17.5	20.0
22	13.5	5.5	1.0	0.5	1.5	7.0	14.0	11.0	19.5	25.0	18.0	20.0
23	13.0	5.5	2.0	0.5	1.5	7.0	14.5	12.5	19.5	24.5	19.0	19.5
24	12.0	5.5	2.5	0.5	1.0	7.0	14.5	13.5	20.0	23.5	19.0	19.0
25	11.5	5.5	2.0	0.5	1.0	7.5	14.5	14.0	21.0	23.5	20.0	19.0
26	11.0	5.0	1.5	0.5	1.0	8.0	13.5	16.0	21.0	24.0	20.0	18.5
27	10.5	4.5	1.5	0.5	2.0	9.0	12.5	17.0	21.5	24.5	20.5	17.5
28	10.0	3.5	---	0.5	2.5	8.5	11.5	17.0	21.5	24.5	21.0	16.0
29	9.5	5.0	---	0.5	---	8.5	11.0	16.5	22.0	24.5	21.0	15.5
30	9.5	6.0	---	0.0	---	9.5	10.5	16.0	22.5	24.5	21.0	15.0
31	9.5	---	---	0.0	---	9.5	---	16.0	---	23.5	20.5	---

09177000 SAN MIGUEL RIVER AT URAVAN, COLO.

LOCATION.--Lat 38°21'26", long 108°42'44", in SW¼NE¼ sec.2, T.47 N., R.17 W., Montrose County, at gaging station, 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 (3.4 km) southeast of Uravan.

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

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1974.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	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 SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	SUS-PENDED SOLIDS (MG/L)
MAR.. 1974											
13...	118	.13	.38	.00	.34	.47	.06	863	275	1.17	58
28...	426	.03	.19	.57	.76	.79	.35	443	510	.60	480
APR.											
10...	626	.03	.33	.47	.80	.83	.19	253	428	.34	101
25...	1490	.08	.40	.90	1.3	1.4	.31	169	680	.23	315
MAY											
09...	1260	.09	.14	.44	.58	.67	.46	187	637	.25	301
23...	574	.06	.10	.23	.33	.39	.03	262	406	.36	19
JUNE											
06...	506	.08	.01	.85	.86	.94	--	272	372	.37	18
20...	660	.07	.07	.30	.37	.44	.03	224	399	.30	36
JULY											
05...	142	.02	.04	.34	.38	.40	.01	404	155	.55	1
18...	415	.09	.06	1.3	1.4	1.5	.34	602	675	.82	283
AUG.											
01...	85	.00	.01	.45	.46	.46	.08	710	163	.97	26
30...	26	.08	.04	.34	.38	.46	.03	1390	97.6	1.89	5
SEP.											
12...	13	.01	.03	.28	.31	.32	.00	1520	53.4	2.07	3
26...	28	2.3	.03	.51	.54	2.8	.01	1470	111	2.00	14

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	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. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED NATURAL URANIUM (U) (UG/L)
MAR.. 1974											
13...	1180	7.9	7.0	30	10.9	19	--	89	5.4	.10	5.3
28...	1000	7.8	9.0	100	10.0	22	--	80	8.2	.14	3.7
APR.											
10...	398	7.5	8.0	50	10.5	22	500	E190	7.1	.11	1.8
25...	269	7.7	8.5	100	10.2	35	560	150	18	.15	.7
MAY											
09...	285	7.9	13.5	90	9.2	23	123	E400	7.6	.14	.7
23...	404	7.1	12.0	10	9.8	8	80	48	3.6	.08	.8
JUNE											
06...	434	7.5	14.0	5	9.8	7	200	--	2.4	.11	1.0
20...	367	7.5	18.0	20	8.8	18	236	E86	3.7	.14	.7
JULY											
05...	610	8.2	22.0	3	8.0	11	--	88	1.8	.13	1.4
18...	844	7.2	22.0	200	7.8	27	E75	550	10	--	--
AUG.											
01...	971	8.1	22.5	10	7.8	14	1300	0	4.3	--	--
30...	1660	7.4	22.0	2	8.4	15	E120	E20	8.3	--	--
SEP.											
12...	1780	7.4	15.0	2	8.4	12	39	85	7.2	--	--
26...	2670	7.6	14.5	4	8.5	10	23	86	6.9	--	--

09177000 SAN MIGUEL RIVER AT URAVAN, COLO.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
MAR., 1974											
28...	--	--	--	--	--	--	--	--	--	--	--
APR.											
10...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
MAY											
09...	7.3	38	--	8.2	7.4	1.8	98	0	80	61	2.3
23...	--	--	13	--	--	--	--	--	--	--	--
JUNE											
06...	--	--	15	--	--	--	--	--	--	--	--
20...	--	--	11	--	--	--	--	--	--	--	--
AUG.											
01...	11	120	--	42	34	3.2	177	0	145	380	6.9

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)
MAR., 1974										
28...	--	--	--	--	1	--	9	--	570	--
APR.										
10...	--	--	--	--	0	--	9	--	560	--
25...	--	--	--	--	--	20	--	5000	--	<100
MAY										
09...	130	48	.3	--	--	10	--	2000	--	<100
23...	--	--	--	1	--	10	--	700	--	<100
JUNE										
06...	--	--	--	2	--	<10	--	430	--	<100
20...	--	--	--	2	--	<10	--	720	--	<100
AUG.										
01...	470	330	.7	--	--	--	--	--	--	--

DATE	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)	DIS-SOLVED VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
MAR., 1974										
28...	3	--	60	--	.0	--	2	.2	--	20
APR.										
10...	3	--	20	--	.0	--	2	.4	--	30
25...	--	430	--	--	--	1	--	--	230	--
MAY										
09...	--	150	--	--	--	0	--	--	120	--
23...	--	50	--	.0	--	1	--	--	80	--
JUNE										
06...	--	60	--	.0	--	1	--	--	250	--
20...	--	10	--	.0	--	1	--	--	110	--
AUG.										
01...	--	--	--	--	--	--	--	--	--	--

09177100 SAN MIGUEL RIVER BELOW URAVAN, COLO.

LOCATION.--Lat 38°23'08", long 108°45'28", in SW¼NW¼ sec.28, T.48 N., R.17 W., Montrose County, 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.--Chemical analyses: August 1969 to September 1974.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	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 SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	SUS-PENDED SOLIDS (MG/L)
MAR., 1974											
13...	68	.58	9.3	.70	10	11	.05	1010	185	1.37	52
28...	380	.26	3.1	.20	3.3	3.6	.15	458	470	.62	212
APR.											
10...	560	.18	1.7	.40	2.1	2.3	.13	262	396	.36	116
25...	1220	.15	1.2	.50	1.7	1.9	.21	170	560	.23	262
MAY											
09...	1100	.13	.79	.51	1.3	1.4	.09	196	583	.27	166
23...	520	.20	2.0	.40	2.4	2.6	.04	291	409	.40	22
JUNE											
06...	440	.29	.06	3.4	3.5	3.8	--	304	361	.41	4
20...	600	.32	.06	1.8	1.9	2.2	.03	248	402	.34	22
JULY											
05...	82	2.0	.18	.21	.39	2.4	.00	503	111	.68	8
18...	330	.65	2.9	1.6	4.5	5.2	.49	618	551	.84	546
AUG.											
01...	53	.99	8.0	.20	8.2	9.2	.06	815	117	1.11	22
15...	17	2.0	25	5.0	30	32	.04	1320	60.6	1.80	5
30...	5.0	3.3	17	2.0	19	22	.03	2000	27.0	2.72	7
SEP.											
12...	3.0	4.7	46	28	74	79	.05	2950	23.9	4.01	38
26...	5.0	.05	38	4.0	42	42	.04	2080	28.1	2.83	130

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	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. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED NATURAL URANIUM (U) (UG/L)
MAR., 1974											
13...	1440	7.5	8.0	30	11.0	12	--	100	6.1	.17	11
28...	--	8.0	10.0	90	10.2	17	--	110	19	.24	14
APR.											
10...	422	7.7	8.5	50	10.4	20	200	90	7.2	.16	5.3
25...	280	7.8	10.5	100	10.0	31	B5600	220	14	.17	2.0
MAY											
09...	302	7.8	16.0	70	8.8	19	B2000	250	7.8	.14	2.1
23...	470	7.2	14.5	10	9.4	12	1800	9	3.3	.13	2.4
JUNE											
06...	521	8.3	14.5	6	9.2	7	600	--	2.7	.12	2.8
20...	417	8.1	20.0	20	8.6	18	B210	58	3.0	.12	4.3
JULY											
05...	808	7.7	25.0	5	7.7	7	--	110	2.1	.17	5.0
18...	900	7.4	24.0	200	7.9	44	--	200	19	--	--
AUG.											
01...	1130	7.7	25.0	10	8.2	18	B220	68	3.0	--	--
15...	1900	7.8	24.0	7	11.1	17	>2000	20	5.2	--	--
30...	2650	6.7	26.0	4	7.5	14	--	B500	6.5	--	--
SEP.											
12...	4120	6.9	18.5	20	9.8	32	B2000	55	7.9	--	--
26...	2690	7.2	16.5	4	9.7	13	50	B19	7.4	--	--

09177100 SAN MIGUEL RIVER BELOW URAVAN, COLO.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
MAR.. 1974											
28...	--	--	--	--	--	--	--	--	--	--	--
APR.											
10...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
MAY											
09...	7.4	38	--	8.9	7.8	2.0	98	0	80	63	4.8
23...	--	--	15	--	--	--	--	--	--	--	--
JUNE											
06...	--	--	17	--	--	--	--	--	--	--	--
20...	--	--	12	--	--	--	--	--	--	--	--
JULY											
05...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
01...	10	120	--	53	47	4.9	163	0	134	430	30

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)
MAR.. 1974										
28...	--	--	--	--	0	--	9	--	200	--
APR.										
10...	--	--	--	--	1	--	9	--	50	--
25...	--	--	--	--	--	10	--	5000	--	<100
MAY										
09...	130	51	.3	--	--	10	--	2800	--	<100
23...	--	--	--	2	--	<10	--	650	--	<100
JUNE										
06...	--	--	--	1	--	10	--	400	--	<100
20...	--	--	--	2	--	<10	--	820	--	<100
JULY										
05...	--	--	--	4	--	10	--	460	--	<100
AUG.										
01...	520	380	.9	--	--	--	--	--	--	--

DATE	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)	DIS-SOLVED VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
MAR.. 1974										
28...	3	--	120	--	.0	--	1	3.1	--	40
APR.										
10...	4	--	50	--	.0	--	5	1.2	--	30
25...	--	450	--	--	--	0	--	--	220	--
MAY										
09...	--	220	--	--	--	1	--	--	130	--
23...	--	110	--	.0	--	0	--	--	80	--
JUNE										
06...	--	90	--	.0	--	1	--	--	90	--
20...	--	120	--	.0	--	1	--	--	120	--
JULY										
05...	--	180	--	.2	--	2	--	--	50	--
AUG.										
01...	--	--	--	--	--	--	--	--	--	--

09251000 YAMPA RIVER NEAR MAYBELL, COLO.

LOCATION.--Lat 40°32'20", long 108°05'18", Moffat County, at county bridge, 1 mi (2 km) north of Maybell and about 3.5 mi (5.6 km) downstream from gaging station.

DRAINAGE AREA.--3,410 mi² (8,830 km²), approximately (at gaging station).

PERIOD OF RECORD.--Chemical analyses: November 1950 to September 1974.
Water temperatures: November 1950 to August 1973 (discontinued).
Sediment records: December 1950 to May 1958.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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., 1973												
03...	226	5.1	30	0	38	18	41	2.6	178	3	151	84
NOV.												
14...	425	9.1	30	0	42	17	34	2.7	177	0	145	91
JAN., 1974												
09...	290	14	20	10	46	21	45	2.6	209	0	171	110
FEB.												
13...	264	14	30	0	48	25	51	2.5	205	0	168	130
APR.												
03...	1650	11	100	25	55	34	63	3.6	180	0	148	230
24...	5340	10	240	20	37	16	23	3.0	124	0	102	91
MAY												
29...	9080	8.8	90	20	16	5.0	6.2	1.3	59	0	48	20

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT., 1973												
03...	16	.4	.00	.00	296	170	18	1.4	460	8.4	15.0	10.0
NOV.												
14...	12	.1	.01	.02	295	170	30	1.1	495	8.3	5.0	11.0
JAN., 1974												
09...	16	.2	.43	.03	360	200	30	1.4	596	7.8	.0	9.4
FEB.												
13...	17	.5	.43	.06	391	220	55	1.5	640	7.7	.0	8.5
APR.												
03...	14	.5	1.0	.05	505	280	130	1.6	790	8.0	2.0	11.1
24...	4.9	.5	.99	.08	251	160	57	.8	408	7.8	8.0	10.2
MAY												
29...	1.4	.2	.13	.02	89	61	12	.3	142	7.9	12.5	9.3

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
JUNE										
26...	4200	8.0	15	4.9	7.8	1.2	60	0	49	18
JULY										
30...	607	8.7	42	15	31	2.5	182	--	149	68
SEP.										
24...	111	3.5	51	27	67	4.4	240	--	197	140

09251000 YAMPA RIVER NEAR MAYBELL, COLO.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
JUNE									
26...	2.5	.3	.03	.58	.11	81	87	58	8
JULY									
30...	11	.2	.18	.65	.02	257	268	170	17
SEP.									
24...	30	.2	.01	.59	.00	451	442	240	42

DATE	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
JUNE									
26...	.4	145	7.8	18.0	20	9.3	B11	28	B12
JULY									
30...	1.0	501	6.2	22.5	10	8.8	43	53	180
SEP.									
24...	1.9	746	8.4	17.0	2	8.0	82	B11	31

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)
SEP., 1974											
24...	11	0	0	2	<10	<9	1	0	0	0	<50

DATE	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)
SEP., 1974											
24...	<50	0	<10	<4	6	910	50	<100	<9R	2	40

DATE	SUS-PENDED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELF-NIUM (SF) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
SEP., 1974											
24...	30	10	.1	.1	.0	0	0	0	60	40	20

09260000 LITTLE SNAKE RIVER NEAR LILY, COLO.

LOCATION.--Lat 40°32'50", long 108°25'25", in NW¼NE¼ sec.20, T.7 N., R.98 W., Moffat County, at gaging station, 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.

PERIOD OF RECORD: Chemical analyses: September 1969 to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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., 1973												
03...	94	11	40	0	51	16	73	2.3	244	0	200	120
NOV.												
14...	206	15	120	0	50	13	69	3.1	196	14	184	120
JAN., 1974												
09...	106	20	30	10	57	16	48	2.0	236	0	194	100
FEB.												
13...	110	20	40	0	59	16	51	2.2	235	0	193	110
APR.												
02...	340	13	110	38	52	17	66	1.9	183	0	150	150
26...	2370	15	90	30	39	12	31	1.5	150	0	123	77
MAY												
29...	3870	12	110	30	18	4.3	8.0	.8	75	0	62	16
JUNE												
26...	1360	12	110	0	25	4.7	12	1.4	88	0	72	18
JULY												
30...	125	15	330	0	52	14	64	4.7	219	1	181	110
SEP.												
24...	13	12	60	0	73	23	160	6.7	228	--	187	310

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT., 1973												
03...	22	.4	.00	.02	416	190	0	2.3	639	8.3	9.0	9.2
NOV.												
14...	20	.4	.08	.04	402	180	0	2.2	623	8.4	3.5	10.4
JAN., 1974												
09...	14	.3	.08	.03	374	210	15	1.4	605	7.9	.0	8.4
FEB.												
13...	15	.5	.12	.03	390	210	20	1.5	607	7.8	.0	8.6
APR.												
02...	23	.5	.22	.02	415	200	50	2.0	658	8.1	4.0	--
26...	5.0	.4	.37	.06	257	150	24	1.1	407	7.8	4.0	8.6
MAY												
29...	2.0	.2	.18	.03	99	63	1	.4	156	8.0	14.0	9.0
JUNE												
26...	3.5	.3	.00	.03	120	82	10	.6	195	7.9	23.5	7.2
JULY												
30...	20	.3	.03	.03	390	190	6	2.0	627	7.4	22.0	7.4
SEP.												
24...	72	.4	.01	.01	770	280	90	4.2	1220	8.4	13.0	12.2

09304200 WHITE RIVER ABOVE COAL CREEK, NEAR MEEKER, COLO.

LOCATION.--Lat 40°00'18", long 107°49'29", in NW¼NW¼ sec.3, T.1 S., R.93 W., Rio Blanco County, at gaging station, 16 ft (5 m) upstream from county road bridge, 2.3 mi (3.7 km) upstream from Coal Creek, and 5.0 mi (8.0 km) southeast of Meeker.

DRAINAGE AREA.--660 mi^2 (1,710 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: March 1973 to September 1974.
Water temperature: March 1973 to September 1974.

EXTREMES, 1973-74.--Specific conductance: Maximum daily, 460 micromhos Sept. 11, 13, 14; minimum daily, 200 micromhos June 21.
Water temperature: Maximum, 20.5°C July 25, 27; minimum, 1°C Nov. 21, 27.
Period of record.--Specific conductance: Maximum daily, 460 micromhos Sept. 11, 13, 14. 1974; minimum daily, 200 micromhos June 11, 12, 13, 15, 1973, June 21, 1974.
Water temperatures: Maximum, 20.5°C Aug. 13, 1973, July 25, 27, 1974; minimum, 1°C Nov. 21, 27, 1973.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
AUG., 1973												
30...	268	18	20	20	62	12	5.0	1.2	156	0	128	100
NOV.												
14...	533	16	10	0	58	11	4.1	1.2	116	11	113	83
FEB., 1974												
14...	336	18	50	0	65	12	3.9	1.0	140	0	115	96
MAY												
30...	3000	9.8	40	30	28	6.4	3.1	.9	93	0	76	19
SEP.												
23...	273	16	70	0	60	13	5.0	1.3	148	--	121	80

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO, PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
AUG., 1973												
30...	2.2	.0	.08	.01	278	200	76	.2	424	8.1	10.5	8.6
NOV.												
14...	1.6	.2	.02	.04	244	190	77	.1	378	8.8	4.5	11.2
FEB., 1974												
14...	2.6	.5	.17	.03	269	210	97	.1	418	7.9	.0	11.4
MAY												
30...	1.7	.2	.12	.02	116	96	20	.1	191	7.9	7.0	11.8
SEP.												
23...	2.2	.2	.01	.01	251	200	82	.2	412	8.3	8.0	11.6

09304200 WHITE RIVER ABOVE COAL CREEK, NEAR MEEKER, COLO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	390	380	---	385	385	395	385	300	210	340	380	420
2	400	385	---	390	380	390	370	280	220	340	380	420
3	400	390	---	390	385	380	360	260	235	360	380	440
4	390	375	---	380	395	385	370	260	220	350	380	455
5	385	380	---	385	390	390	375	260	230	360	380	450
6	390	380	---	380	385	390	370	240	220	350	380	450
7	395	370	---	380	390	380	390	240	220	360	380	440
8	380	380	380	385	385	395	395	240	240	350	370	435
9	385	370	380	380	380	390	390	230	240	350	360	450
10	380	370	390	375	395	400	390	230	260	360	360	450
11	385	360	390	380	390	395	385	240	280	360	350	460
12	390	390	385	385	400	395	390	240	260	370	360	450
13	380	370	395	380	400	390	385	250	260	380	360	460
14	385	380	390	385	410	390	400	240	240	380	350	460
15	370	390	390	380	415	395	400	240	240	370	360	420
16	380	390	400	380	410	395	380	230	240	380	360	410
17	390	380	390	390	410	385	390	240	240	350	365	410
18	380	385	400	385	420	380	380	230	230	350	360	420
19	380	380	400	390	405	375	370	230	220	380	360	420
20	370	370	390	380	400	385	375	220	220	360	360	410
21	370	380	395	385	395	390	365	255	200	360	360	420
22	375	370	400	380	410	380	380	240	230	360	370	410
23	380	370	410	380	410	390	360	240	240	360	360	410
24	375	380	400	385	410	390	340	240	250	350	370	410
25	385	380	390	380	400	400	320	240	270	350	370	400
26	390	375	400	375	400	390	290	250	270	380	370	400
27	380	390	395	380	390	400	300	240	280	365	410	385
28	380	---	400	380	395	400	300	240	270	360	410	400
29	385	---	410	385	---	390	300	230	280	380	410	400
30	375	---	410	380	---	390	320	240	280	390	410	400
31	380	---	400	380	---	390	---	230	---	380	420	---

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.0	9.0	---	3.0	2.5	7.0	5.0	11.0	12.0	16.5	18.0	15.0
2	12.0	8.0	---	2.0	3.0	8.0	6.0	10.5	12.5	17.5	18.0	17.5
3	11.0	8.5	---	3.5	3.5	8.0	6.0	10.5	12.0	18.0	18.0	18.0
4	10.0	8.0	---	3.0	3.0	8.5	7.0	10.5	11.0	18.0	18.0	17.0
5	12.0	7.5	---	4.0	3.0	8.5	7.5	11.0	11.0	17.0	19.0	17.0
6	10.0	8.0	---	3.5	3.5	8.0	9.0	11.0	9.0	18.0	20.0	16.0
7	10.0	7.5	---	3.0	4.0	8.0	8.5	10.0	11.0	19.0	20.0	16.0
8	11.0	8.0	3.0	4.0	3.5	9.5	9.0	12.0	11.0	18.0	18.0	17.0
9	10.0	7.0	3.5	3.0	4.5	10.0	9.0	11.5	13.0	18.5	17.0	14.0
10	7.0	7.0	3.0	4.0	5.0	9.0	8.5	10.0	14.0	18.0	16.0	15.0
11	8.0	7.0	4.0	3.0	4.0	8.5	9.0	11.0	15.0	19.5	18.0	14.0
12	7.5	6.0	3.5	4.0	4.5	9.5	10.0	10.0	15.0	19.0	18.0	15.0
13	11.0	7.0	4.0	4.0	4.0	9.5	9.0	10.5	14.0	18.0	19.0	13.5
14	10.0	5.0	3.5	5.0	4.0	9.0	9.5	10.0	15.0	20.0	18.0	13.0
15	12.0	4.0	2.0	4.0	4.5	8.5	11.0	11.0	14.5	18.0	17.0	15.0
16	10.0	5.0	2.0	4.0	4.5	8.0	11.0	10.0	14.0	17.5	18.0	16.0
17	11.0	5.0	3.0	4.5	4.0	7.5	10.5	9.0	16.0	16.5	19.0	15.0
18	12.0	2.0	2.5	4.0	5.0	8.5	9.5	10.5	15.0	18.0	19.5	16.0
19	10.0	3.0	2.0	3.0	4.5	8.0	11.0	9.5	16.0	20.0	15.0	16.0
20	10.5	3.0	2.0	3.5	4.0	7.5	10.0	7.0	16.0	17.0	17.0	16.0
21	10.0	1.0	2.5	4.0	5.0	8.5	9.0	9.5	16.0	19.5	17.0	15.0
22	9.5	1.5	3.0	3.5	5.0	8.5	13.5	10.0	17.0	20.0	18.0	16.0
23	10.0	1.5	4.0	2.5	4.5	8.5	12.0	10.0	17.0	19.0	18.0	16.0
24	9.0	2.0	3.0	3.0	5.0	9.5	12.0	10.0	16.0	18.5	19.0	15.0
25	10.0	2.0	2.0	3.5	5.0	9.5	13.0	10.5	17.0	20.5	18.0	14.0
26	8.5	2.5	2.5	2.5	4.5	9.0	11.0	11.0	16.5	17.0	18.0	14.5
27	7.0	1.0	2.0	4.0	5.0	10.0	10.0	10.0	16.0	20.5	20.0	10.0
28	8.5	---	3.0	3.0	5.5	9.5	9.0	10.0	17.0	19.0	19.0	11.0
29	8.0	---	2.0	3.0	---	9.0	10.0	11.0	17.5	20.0	18.0	12.0
30	9.0	---	2.5	4.0	---	9.0	11.5	11.0	16.5	19.0	18.0	12.5
31	8.5	---	2.0	4.0	---	8.5	---	12.0	---	18.0	17.0	---

09304500 WHITE RIVER NEAR MEEKER, COLO.

LOCATION.--Lat 40°02'01", long 105°51'42", in NE¼ sec.30, T.1 N., R.93 W., Rio Blanco County, at gagirg station, 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.--Chemical analyses: March 1973 to September 1974.
Water temperature: March 1973 to November 1974 (discontinued).

EXTREMES, October 1973 to November 1974.--Specific conductance: Maximum daily, 780 micromhos Apr. 14, 15; minimum daily, 220 micromhos May 30, 31, June 2.
Water temperature: Maximum 22.5°C, July 13; Minimum, freezing point on many days during November to February.
Period of record.--Specific conductance: Maximum daily, 780 micromhos Apr. 14, 15, 1974; minimum daily, 220 micromhos May 30, 31, June 2, 1974.
Water temperature: Maximum 22.5°C, July 13, 1974; minimum, freezing point on many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
NOV., 1973												
14...	380	16	20	0	63	12	18	1.4	130	9	122	99
FEB., 1974												
14...	286	4.4	20	0	70	15	25	1.5	155	0	127	120
MAY												
30...	2760	10	50	30	29	6.3	3.8	1.1	97	0	80	22
SEP.												
23...	357	12	210	10	73	17	23	2.0	180	--	148	110

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
NOV., 1973												
14...	22	.1	.01	.03	305	210	85	.5	486	8.8	4.5	11.6
FEB., 1974												
14...	33	.5	.09	.01	346	240	110	.7	569	7.9	.0	11.8
MAY												
30...	3.2	.2	.14	.03	124	98	19	.2	207	7.9	8.0	11.8
SEP.												
23...	26	.3	.17	.03	353	250	110	.6	577	8.3	10.0	12.2

09304500 WHITE RIVER NEAR MEEKER, COLO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	615	590	570	650	540	595	540	360	230	400	560	750
2	600	550	540	560	560	630	650	335	220	430	565	725
3	590	560	580	560	580	650	700	360	240	430	555	725
4	580	565	600	700	520	650	690	320	250	440	590	750
5	590	580	590	---	570	710	690	310	255	460	580	750
6	610	580	595	600	520	690	625	280	275	485	600	755
7	600	580	600	580	480	675	725	270	290	480	580	775
8	600	580	580	520	510	700	750	260	320	540	540	760
9	600	580	600	570	480	735	700	230	320	525	540	750
10	590	570	650	575	510	700	650	240	320	580	570	750
11	590	560	600	580	570	700	650	240	310	580	620	750
12	590	560	650	580	560	750	660	260	305	590	540	750
13	580	560	590	580	530	750	740	235	300	600	540	700
14	580	560	595	570	580	700	780	260	280	580	530	725
15	560	600	590	600	595	700	780	270	260	560	530	680
16	560	570	675	600	570	650	675	260	280	580	550	610
17	560	570	590	560	580	700	660	240	260	625	550	600
18	540	540	560	560	560	650	520	250	255	625	560	610
19	530	540	530	580	575	650	520	240	245	600	570	610
20	540	580	680	590	580	650	540	230	250	550	570	620
21	550	560	560	560	620	660	600	275	240	550	580	625
22	540	600	520	500	650	650	540	280	260	560	615	610
23	550	520	565	570	625	610	500	275	280	580	600	605
24	555	540	560	480	580	700	475	290	300	530	625	580
25	570	540	650	500	650	620	430	275	305	550	650	570
26	550	550	600	570	510	650	360	280	320	520	675	570
27	550	560	640	530	580	650	350	240	340	520	675	570
28	560	600	570	600	595	640	380	245	355	550	660	610
29	550	600	580	480	---	635	350	230	320	560	675	640
30	550	600	560	600	---	620	390	220	390	565	700	580
31	---	---	625	600	---	600	---	220	---	580	725	---

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.0	5.0	3.0	0.0	1.0	6.5	5.5	10.0	12.0	17.0	19.0	17.0
2	12.0	4.0	2.5	0.0	0.5	6.5	4.0	6.0	12.0	18.0	17.5	18.0
3	12.5	3.0	1.0	0.0	0.5	4.0	5.0	10.5	11.5	19.0	18.0	16.5
4	11.0	3.0	2.0	0.0	0.0	4.5	8.0	10.5	12.0	19.0	19.0	17.0
5	10.5	3.5	0.0	---	0.5	4.5	8.0	11.0	8.5	17.0	19.5	16.5
6	13.0	5.0	0.0	0.0	0.0	7.0	6.0	10.5	9.0	17.0	20.5	18.0
7	12.0	7.0	0.5	0.0	0.0	5.5	5.5	11.0	8.0	18.5	19.0	17.5
8	11.0	7.0	1.0	0.0	0.0	7.0	9.5	12.0	7.0	17.0	15.0	17.5
9	8.0	7.0	0.0	0.0	0.0	7.0	10.5	10.0	13.0	20.0	13.0	19.0
10	6.0	7.0	0.0	0.0	0.0	5.0	7.5	9.5	13.5	20.0	17.0	17.0
11	6.5	7.0	0.5	0.0	0.0	7.0	4.0	10.0	15.0	20.0	17.5	16.0
12	7.0	5.5	0.5	0.0	0.5	8.0	2.5	10.0	14.5	21.0	15.5	14.0
13	10.0	6.5	1.0	0.0	1.0	8.0	6.5	8.0	15.5	22.5	18.5	13.5
14	11.0	3.5	1.5	0.0	1.0	5.0	9.0	9.0	15.0	20.0	18.0	12.0
15	11.0	3.5	0.0	0.0	2.0	9.0	10.5	10.0	14.0	19.5	18.5	13.0
16	11.5	4.0	1.0	0.0	2.5	9.5	10.5	11.0	12.5	17.0	18.0	15.5
17	11.0	4.0	0.5	1.0	3.0	9.0	12.0	7.0	14.0	15.5	19.0	15.0
18	10.5	5.0	0.0	0.0	4.0	7.0	12.0	10.5	15.0	17.0	19.5	15.5
19	10.0	2.0	0.0	1.0	1.5	9.0	9.0	8.5	14.0	21.0	14.0	16.0
20	10.0	1.0	0.5	2.0	2.0	7.5	6.5	7.0	15.0	18.0	17.0	15.5
21	9.0	1.5	0.0	1.0	1.5	7.5	9.0	8.5	12.5	19.0	17.0	15.0
22	10.0	0.0	0.5	0.0	1.0	3.5	13.0	10.0	15.5	19.0	17.0	14.5
23	7.0	1.0	0.5	0.0	1.5	5.0	11.5	10.0	17.0	17.5	19.0	15.0
24	8.0	1.0	0.5	0.0	0.0	5.0	11.5	9.5	17.0	19.5	18.5	14.0
25	7.5	1.0	0.0	0.0	0.5	8.5	12.5	11.5	17.5	20.5	18.0	14.0
26	7.0	1.0	0.0	0.0	1.5	9.0	11.0	13.0	18.0	17.0	17.5	13.5
27	6.5	0.0	0.0	0.0	4.0	9.5	7.5	10.0	19.0	20.0	17.5	9.5
28	7.0	0.0	0.5	0.0	4.5	7.5	10.0	11.5	19.0	19.0	19.0	10.5
29	5.0	0.0	0.0	0.0	---	6.5	8.0	11.5	18.0	20.0	19.5	11.0
30	6.0	0.0	0.0	0.0	---	8.5	11.0	11.5	18.5	19.0	18.0	11.5
31	6.0	---	0.0	0.0	---	5.0	---	11.0	---	18.0	17.0	---

09304800 WHITE RIVER BELOW MEEKER, COLO.

LOCATION.--Lat 40°00'48", long 108°05'33", in center of sec.31, T.1 N., R.95 W., Rio Blanco County, at gaging station, 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.

PERIOD OF RECORD.--Chemical analyses: April to September 1974.

WATER QUALITY DATA, APRIL TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	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 SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	SUS-PENDED SOLIDS (MG/L)
APR.. 1974										
03...	--	.00	.12	.34	.46	.46	.04	512	.70	23
24...	613	.21	.04	.89	.93	1.1	.15	394	.54	95
MAY										
30...	2730	.14	.06	1.4	1.5	1.6	.28	160	.22	95
JUNE										
25...	1240	.04	.05	.50	.55	.59	.09	233	.32	23
JULY										
31...	420	.01	.12	.38	.50	.51	.06	453	.62	--
SEP.										
23...	420	.02	.04	.53	.57	.59	.03	524	.71	25

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	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. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
APR.. 1974									
03...	780	--	3.5	10	--	12	--	--	3.2
24...	609	--	9.0	60	10.2	9	--	--	--
MAY									
30...	248	7.8	10.0	40	11.6	150	--	--	6.7
JUNE									
25...	395	8.1	18.0	5	12.1	20	1100	1100	4.0
JULY									
31...	698	6.3	17.0	6	10.3	8	760	80	4.2
SEP.									
23...	718	8.3	14.0	9	9.4	19	73	32	4.7

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
MAY . 1974								
30...	10	33	7.9	6.6	1.2	107	0	88
SEP.								
23...	15	83	24	33	2.2	205	2	172

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO
MAY . 1974							
30...	30	4.8	146	120	27	11	.3
SEP.							
23...	170	32	462	310	130	19	.8

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED COPPER (CU) (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-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED NATURAL URANIUM (U) (UG/L)
APR.. 1974										
24...	3	5	3500	1	170	.0	4	60	.05	.9
MAY										
30...	--	--	--	--	--	--	--	--	.03	.4

09306007 PICEANCE CREEK BELOW RIO BLANCO, COLO.

LOCATION.--Lat 39°49'34", long 108°10'57", in SE¼SE¼ sec.32, T.2 S., R.96 W., Rio Blanco County, at gaging station 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 mi^2 (458 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1974 to September 1974.
Sediment records: April 1974 to September 1974.

EXTREMES, 1973-74.--Sediment concentrations: Maximum daily, 20,300 mg/l July 20; minimum daily, 38 mg/l June 24, 25.
Sediment loads: Maximum daily, 4,580 tons (4,150 t) July 20; minimum daily, 0.73 tons (0.66 t) June 23.

WATER QUALITY DATA, APRIL TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
APR. 1974												
23...	25	15	110	30	69	40	96	2.7	456	0	374	160
MAY												
03...	36	14	40	10	66	38	88	3.1	436	0	358	140
17...	11	17	40	100	74	47	110	3.4	516	0	423	180
22...	6.5	17	300	210	77	52	140	2.9	599	0	491	190
31...	6.8	17	30	140	76	53	140	4.3	600	0	492	180
JUNE												
14...	7.2	15	40	40	73	52	150	3.7	580	0	476	180
21...	7.2	13	20	180	76	49	140	3.4	576	0	472	180
26...	7.0	16	40	200	76	50	150	4.1	587	0	481	180
JULY												
02...	6.2	14	50	230	74	56	150	3.5	617	0	505	190
11...	4.0	17	50	180	72	57	160	3.8	587	0	481	200
20...	14	15	150	140	73	39	110	5.7	441	0	362	190
AUG.												
03...	7.5	18	90	180	75	48	140	3.9	595	0	488	190
10...	27	17	50	70	69	42	110	3.4	497	0	409	170
16...	1.4	16	50	40	65	42	120	2.4	465	--	381	150
31...	5.4	16	70	50	51	47	130	4.3	--	--	--	150
SEP.												
20...	6.8	16	30	50	70	50	120	4.2	522	--	428	160
27...	8.2	16	120	50	63	44	110	3.2	502	--	412	150

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
APR. 1974												
23...	13	1.3	.63	.02	625	42.2	.85	340	0	2.3	977	8.2
MAY												
03...	9.7	.7	.70	.01	578	56.2	.79	320	0	2.1	912	8.2
17...	12	.8	.56	.03	701	20.8	.95	380	0	2.5	1080	8.2
22...	15	.9	.28	.04	792	13.9	1.08	410	0	3.0	1240	8.1
31...	17	.9	.15	.06	786	14.4	1.07	410	0	3.0	1220	8.3
JUNE												
14...	15	1.0	.08	.02	776	15.1	1.06	400	0	3.3	1190	8.2
21...	17	.9	.03	.01	764	14.9	1.04	390	0	3.1	1200	8.2
26...	16	.9	.04	.02	783	14.8	1.06	400	0	3.3	1270	8.3
JULY												
02...	16	.8	.01	.00	809	13.5	1.10	420	0	3.2	1250	8.2
11...	17	.2	2.5	.36	829	8.95	1.13	410	0	3.4	1250	8.1
20...	16	.7	.47	.04	670	25.3	.91	340	0	2.6	1030	7.8
AUG.												
03...	16	.9	.15	.02	786	15.9	1.07	390	0	3.1	1210	8.1
10...	13	.8	.69	.04	674	49.1	.92	350	0	2.6	1020	8.2
16...	13	.6	.40	.01	640	2.42	.87	340	0	2.9	1010	8.0
31...	15	.9	.12	.01	--	--	--	320	--	3.2	900	6.9
SEP.												
20...	16	1.0	.23	.02	696	12.8	.95	380	0	2.7	1080	8.1
27...	13	1.1	.21	.01	649	14.4	.88	340	0	2.6	1060	8.3

09306007 PICEANCE CREEK BELOW RIO BLANCO, COLO.--Continued

WATER QUALITY DATA, APRIL TO SEPTEMBER 1974

DATE	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED LITHIUM (LI) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
APR., 1974												
23...	10.0	9.4	--	--	--	--	--	--	--	--	--	--
MAY												
03...	7.5	7.0	--	--	--	--	--	--	--	--	--	--
17...	9.0	9.4	2	--	--	--	--	--	--	.0	0	--
22...	11.0	10.2	1	130	200	0	<4	<16	10	.0	2	10
31...	15.0	12.2	2	200	240	1	4	5	10	.0	1	30
JUNE												
14...	19.0	10.8	1	200	250	0	2	7	10	.0	1	30
21...	19.0	12.6	3	0	260	1	3	8	10	.0	1	40
26...	16.0	10.4	2	<100	250	2	9	7	10	.0	0	30
JULY												
02...	10.5	10.4	5	<100	250	0	5	1	0	.0	1	0
11...	22.0	10.6	4	<100	280	1	1	4	0	.0	1	10
20...	20.0	8.0	3	0	260	1	12	3	0	.0	0	40
AUG.												
03...	13.0	8.9	2	0	240	1	2	4	0	.0	1	20
10...	14.0	8.0	3	0	200	<1	4	2	0	.0	2	30
16...	21.0	7.6	2	100	220	<1	3	1	0	.0	2	10
31...	19.5	9.8	3	100	240	1	3	6	0	.8	1	20
SEP.												
20...	8.0	9.8	2	100	120	1	1	4	0	.0	1	20
27...	7.0	10.2	2	0	160	<1	0	2	0	.1	1	0

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1				32	1400	121	7.8	160	3.4
2				34	1100	101	7.2	140	2.7
3				33	750	67	6.2	80	1.3
4				28	590	45	6.5	60	1.1
5				31	1120	94	6.5	60	1.1
6				31	1120	94	7.8	70	1.5
7				30	1010	82	7.2	82	1.6
8				29	850	67	11	100	3.0
9				24	700	45	11	84	2.5
10				22	540	32	9.4	65	1.6
11				20	390	21	8.2	56	1.2
12				18	300	15	7.8	60	1.3
13				17	240	11	7.8	45	.95
14				16	220	9.5	7.2	40	.78
15				12	200	6.5	7.2	54	1.0
16				11	310	9.2	7.5	53	1.1
17				11	330	9.8	8.2	63	1.4
18				11	320	9.5	8.8	64	1.5
19				11	250	7.4	8.8	53	1.3
20				9.1	210	5.2	8.8	45	1.1
21				8.5	210	4.8	7.5	44	.89
22				6.8	170	3.1	7.0	44	.83
23				6.8	160	2.9	6.8	40	.73
24				8.5	150	3.4	7.2	38	.74
25	24	880	57	9.1	150	3.7	7.2	38	.74
26	26	910	64	8.5	160	3.7	7.0	45	.85
27	30	980	79	9.1	160	3.9	6.8	46	.84
28	32	1100	95	8.0	150	3.2	7.0	88	1.7
29	34	1200	110	8.0	180	3.9	6.2	90	1.5
30	31	1300	109	7.0	180	3.4	5.8	68	1.1
31	--	--	--	7.0	180	3.4	--	--	--

09306007 PICEANCE CREEK BELOW RIO BLANCO, COLO.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	6.0	82	1.3	7.8	350	7.4	5.8	180	2.8
2	5.8	106	1.7	7.8	290	6.1	6.0	190	3.1
3	5.6	110	1.7	6.0	150	2.4	6.0	195	3.2
4	5.6	114	1.7	5.0	90	1.2	6.0	220	3.6
5	5.2	112	1.6	5.4	130	1.9	6.0	260	4.2
6	4.6	96	1.2	6.8	135	2.5	6.0	250	4.1
7	4.6	128	1.6	6.5	165	2.9	6.0	240	3.9
8	5.0	90	1.2	8.8	644	18	6.0	220	3.6
9	4.2	90	1.0	19	1280	68	6.0	240	3.9
10	4.2	117	1.3	24	1570	1570	7.0	290	5.5
11	4.0	96	1.0	20	1150	62	6.2	290	4.9
12	3.7	110	1.1	18	480	23	7.4	270	5.4
13	3.7	112	1.1	16	430	19	6.0	270	4.4
14	3.7	100	1.0	15	400	16	7.0	270	5.1
15	4.0	98	1.1	15	340	14	6.2	340	5.7
16	5.4	176	4.8	14	340	13	6.4	3100	54
17	5.8	343	7.4	14	400	15	6.3	350	6.0
18	4.6	262	3.3	14	370	14	6.2	200	3.3
19	4.8	248	3.2	13	320	11	6.1	180	3.0
20	35	20300	4580	13	380	13	6.0	160	2.6
21	9.4	800	20	12	330	11	6.2	160	2.7
22	8.0	600	13	12	320	10	6.0	190	3.1
23	7.8	368	7.8	11	370	11	6.5	200	3.5
24	7.5	292	5.9	11	300	8.9	6.8	240	4.4
25	7.5	336	6.8	10	230	6.2	6.8	210	3.9
26	7.5	324	6.6	10	200	5.4	7.8	480	10
27	7.5	289	5.9	10	435	12	7.8	230	4.8
28	7.5	306	6.2	9.4	220	5.6	6.0	210	3.4
29	7.5	324	6.6	6.8	185	3.4	5.4	170	2.5
30	7.5	288	5.8	6.0	1180	19	4.6	130	1.6
31	8.0	304	6.6	5.6	150	2.3	--	--	--

09306015 MIDDLE FORK STEWART GULCH NEAR RIO BLANCO, COLO.

LOCATION.--Lat 39°47'20", long 108°10'23", in NE¼SW¼ sec.16, T.3 S., R.96 W., Rio Blanco County, at gaging station, on right bank 0.8 mi (1.3 km) upstream from confluence with East Fork, and 12.8 mi (20.6 km) west of Rio Blanco.

DRAINAGE AREA.--23.8 mi^2 (61.6 km^2).

PERIOD OF RECORD.--Chemical analyses: April to September 1974.

REMARKS.--No flow during period of record.

09306025 WEST FORK STEWART GULCH NEAR RIO BLANCO, COLO.

LOCATION.--Lat 39°47'01", long 108°11'21", in SW¼SE¼ sec.17, T.3 S., R.96 W., Rio Blanco County, at gaging station, on left bank 2.1 mi (3.4 km) upstream from mouth, 13.5 mi (21.7 km) west of Rio Blanco.

DRAINAGE AREA.--14.2 mi² (36.8 km²).

PERIOD OF RECORD.--Chemical analyses: May to September 1974.

WATER QUALITY DATA, MAY TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
MAY , 1974												
03...	<.01	14	40	0	110	100	160	7.0	588	0	482	540
17...	.03	10	30	20	100	100	160	2.8	559	0	459	520
22...	.06	8.9	50	0	95	100	160	2.7	533	0	437	510
31...	.04	12	50	10	96	99	150	2.6	550	0	451	490
JUNE												
14...	.02	15	20	0	88	95	150	2.7	499	5	418	470
21...	.01	15	30	0	79	94	150	1.9	438	13	381	480
26...	.02	15	50	10	88	97	150	2.1	456	0	374	470
JULY												
02...	.03	16	40	0	98	110	150	1.2	543	0	445	470
11...	.02	16	20	10	78	100	160	1.5	459	0	376	540
20...	.02	17	50	20	92	100	170	2.4	519	0	426	510
AUG.												
03...	.02	17	190	0	96	100	150	1.5	532	0	436	530
10...	.02	18	80	10	97	110	160	3.8	603	0	495	540
SEP.												
12...	.02	17	120	0	100	120	220	9.8	664	--	545	580
27...	.04	17	60	0	98	100	150	4.2	542	--	445	480

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO, PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
MAY , 1974												
03...	10	.2	.16	.01	1230	.03	1.67	690	200	2.7	1740	8.3
17...	8.8	.3	.08	.02	1180	.10	1.60	660	200	2.7	1620	8.0
22...	8.6	.1	.02	.02	1150	.19	1.56	650	210	2.7	1640	8.2
31...	10	1.2	.04	.04	1130	.12	1.54	650	200	2.6	1630	8.2
JUNE												
14...	9.1	.2	.03	.00	1080	.06	1.47	610	190	2.6	1570	8.4
21...	8.5	.0	.03	.01	1060	.03	1.44	580	200	2.7	1530	8.5
26...	7.6	.2	.01	.02	1060	.06	1.44	620	250	2.6	1540	8.2
JULY												
02...	8.2	.1	.03	.02	1120	.09	1.52	700	250	2.5	1630	8.1
11...	8.8	.2	.25	.04	1130	.06	1.54	610	230	2.8	1580	8.3
20...	10	.2	.03	.03	1160	.06	1.58	640	220	2.9	1610	8.1
AUG.												
03...	8.6	.2	.02	.02	1170	.06	1.59	650	220	2.6	1640	8.1
10...	12	.2	.37	.03	1240	.07	1.69	700	200	2.6	1730	8.2
SEP.												
12...	29	.1	.01	.00	1400	.08	1.90	740	200	3.5	2010	7.4
27...	9.7	.2	.08	.01	1130	.12	1.54	660	210	2.5	1610	8.3

09306025 WEST FORK STEWART GULCH NEAR RIO BLANCO, COLO.--Continued

WATER QUALITY DATA, MAY TO SEPTEMBER 1974

DATE	TEMPERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	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 LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
MAY , 1974												
03...	20.0	7.1	--	--	--	--	--	--	--	--	--	--
17...	22.5	9.8	0	--	--	--	--	--	--	.0	0	--
22...	21.0	9.4	1	60	90	0	<5	<20	10	.0	0	<10
31...	26.0	6.6	2	100	130	1	4	6	10	.0	0	20
JUNE												
14...	30.0	7.4	3	200	130	1	6	10	10	.0	1	20
21...	30.0	8.3	2	0	130	1	2	2	20	.0	1	20
26...	25.0	9.2	1	<100	100	2	3	4	10	.9	1	10
JULY												
02...	10.0	8.7	3	<100	90	0	4	0	0	.0	0	30
11...	27.0	9.2	3	<100	120	2	2	7	0	.0	0	10
20...	26.0	8.2	0	0	160	1	8	4	10	.0	1	10
AUG.												
03...	12.5	8.7	1	0	110	1	2	6	0	.0	0	20
10...	8.0	8.2	1	0	120	2	6	2	0	.0	1	30
SEP.												
12...	8.0	10.1	2	0	150	<1	8	2	0	.0	1	10
27...	5.0	9.4	1	0	80	2	1	2	0	.0	0	10

DATE	DIS-CHARGE (CFS)	TEMPERATURE (DEG C)	SUS-PENDED SEDIMENT (MG/L)	SUS-PENDED SEDIMENT DIS-CHARGE (T/DAY)
MAY , 1974				
03...	<.01	20.0	168	.00
17...	.03	22.5	72	.01
22...	.06	21.0	67	.01
31...	.04	26.0	144	.02
JUNE				
14...	.02	30.0	40	.00
26...	.02	27.0	35	.00
JULY				
02...	.03	10.0	60	.00
11...	.02	27.0	34	.00
AUG.				
03...	.02	12.5	59	.00
09...	.02	8.0	27	.00
SEP.				
12...	.02	8.0	325	.02

09306028 WEST FORK STEWART GULCH AT MOUTH, NEAR RIO BLANCO, COLO.

LOCATION.--Lat 39°48'45", long 108°11'00", in SE¼SE¼ sec.5, T.3 S., R.96 W., Rio Blanco County, at gagirg station, on left bank 300 ft (91 m) upstream from mouth, 13.8 mi (22.2 km) west of Rio Blanco.

DRAINAGE AREA.--15.7 mi^2 (40.7 km^2).

PERIOD OF RECORD.--Chemical analyses: April to September 1974.

REMARKS.--No flow during period of record.

09306033 SORGHUM GULCH NEAR RIO BLANCO, COLO.

LOCATION.--Lat 39°47'07", long 108°12'33", in SE¼SW¼ sec.18, T.3 S., R.96 W., Rio Blanco County, at gaging station, on left bank 3.3 mi (5.3 km) upstream from mouth and 14.6 mi (23.5 km) west of Rio Blanco.

DRAINAGE AREA.--1.22 mi^2 (3.16 km^2).

PERIOD OF RECORD.--Chemical analyses: April to September 1974

REMARKS.--No flow during period of record.

09306036 SORGHUM GULCH AT MOUTH, NEAR RIO BLANCO, COLO.

LOCATION.--Lat 39°49'30", long 108°11'54", in NW¼NW¼ sec.5, T.3 S., R.96 W., Rio Blanco County, at gaging station, 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 mi^2 (9.38 km^2).

PERIOD OF RECORD.--Chemical analyses: April to September 1974.

REMARKS.--No flow during period of record.

09306039 COTTONWOOD GULCH NEAR RIO BLANCO, COLO.

LOCATION.--Lat 39°46'36", long 108°12'25", in SW¼SE¼ sec.31, T.2 S., R.96 W., Rio Blanco County, at gaging station, 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 mi^2 (3.11 km^2).

PERIOD OF RECORD.--Chemical analyses: April to September 1974.

REMARKS.--No flow during sample-collection visits for period of record.

09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, COLO.

LOCATION.--Lat 39°50'01", long 108°13'12", in SE¼NE¼ sec.36, T.2 S., R.97 W., Rio Blanco County, at gaging station, on left bank 600 ft (180 m) upstream from mouth, 16.2 mi (26.1 km) west of Rio Blanco.

DRAINAGE AREA.--1.06 mi^2 (2.75 km^2).

PERIOD OF RECORD.--April to September 1974.

REMARKS.--No flow during period of record.

09306050 SCANDARD GULCH NEAR RIO BLANCO, COLO.

LOCATION.--Lat 39°47'38", long 108°13'40", in NE¼NW¼ sec.13, T.3 S., R.97 W., Rio Blanco County, at gaging station, on left bank 50 ft (15 m) downstream from Little Scandard Gulch and 15.8 mi (25.4 km) west of Rio Blanco.

DRAINAGE AREA.--6.67 mi^2 (17.28 km^2).

PERIOD OF RECORD.--Chemical analyses: April to September 1974.

REMARKS.--No flow during period of record.

09306052 SCANDARD GULCH AT MOUTH, NEAR RIO BLANCO, COLO.

LOCATION.--Lat 39°48'51", long 108°14'35", in SW¼SE¼ sec.2, T.3 S., R.97 W., Rio Blanco County, at gaging station, on right bank 2,100 ft (640 m) upstream from mouth and 16.8 mi (27.0 km) west of Rio Blanco.

DRAINAGE AREA.--8.03 mi^2 (20.80 km^2).

PERIOD OF RECORD.--Chemical analyses: April to September 1974.

REMARKS.--No flow during period of record.

09306058 WILLOW CREEK NEAR RIO BLANCO, COLO.

LOCATION.--Lat 39°50'14", long 108°14'37", in NW¼NE¼ sec.35, T.2 S., R.97 W., Rio Blanco County, at gaging station, on right bank 1,500 ft (460 m) upstream from mouth, 17.4 mi (28.0 km) west of Rio Blanco.

DRAINAGE AREA.--48.7 mi^2 (126.1 km^2).

PERIOD OF RECORD.--Chemical analyses: April to September 1974.

WATER QUALITY DATA, APRIL TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
APR., 1974												
23...	1.1	16	150	30	100	83	150	5.0	570	0	468	450
MAY												
03...	1.7	17	40	20	100	87	140	4.2	557	0	457	440
17...	1.0	17	20	40	98	80	130	2.0	518	0	425	380
22...	1.0	16	20	20	95	80	130	1.8	505	0	414	380
31...	1.1	16	30	10	94	78	130	1.7	502	0	412	370
JUNE												
14...	.67	17	90	0	96	80	130	2.3	519	0	426	340
21...	.82	13	20	20	91	79	140	2.2	444	46	441	350
26...	.99	16	40	20	92	80	140	3.8	482	0	395	360
JULY												
02...	.79	15	20	0	94	75	130	1.7	506	0	415	360
11...	1.3	17	20	20	95	80	130	2.2	515	0	422	380
20...	.94	16	60	50	91	75	130	2.2	498	0	408	360
AUG.												
03...	1.8	15	40	20	99	76	130	2.0	529	0	434	360
10...	1.8	18	20	20	99	77	180	2.2	523	0	429	500
SEP.												
12...	1.1	18	40	0	98	75	130	1.6	513	9	436	320
27...	.57	18	50	0	96	75	130	2.6	513	--	421	360

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
APR., 1974												
23...	14	.5	.52	.04	1100	3.27	1.50	590	120	2.7	1570	8.2
MAY												
03...	12	.5	2.0	.03	1080	4.96	1.47	610	150	2.5	1560	8.2
17...	9.9	.3	.63	.03	976	2.64	1.33	570	150	2.4	1390	7.9
22...	10	.3	.46	.03	964	2.60	1.31	570	150	2.4	1400	7.9
31...	13	1.3	.19	.04	953	2.91	1.30	560	140	2.4	1350	8.0
JUNE												
14...	10	.4	.34	.02	933	1.69	1.27	570	140	2.4	1390	8.0
21...	10	.3	.10	.01	951	2.11	1.29	550	110	2.6	1420	8.4
26...	9.8	.4	.29	.01	941	2.52	1.28	560	160	2.6	1410	8.0
JULY												
02...	11	.3	.23	.00	938	2.00	1.28	540	130	2.4	1390	8.0
11...	12	.3	.46	.04	973	3.49	1.32	570	140	2.4	1410	7.9
20...	12	.3	.35	.01	934	2.37	1.27	540	130	2.4	1330	7.8
AUG.												
03...	11	.3	.27	.01	956	4.65	1.30	560	130	2.4	1400	7.9
10...	11	.3	.28	.00	1150	5.65	1.56	560	140	3.3	1390	7.9
SEP.												
12...	12	.4	.39	.01	919	2.83	1.25	550	120	2.4	1390	7.9
27...	10	.4	.43	.01	947	1.46	1.29	550	130	2.4	1400	8.1

09306058 WILLOW CREEK NEAR RIO BLANCO, COLO.--Continued

WATER QUALITY DATA, APRIL TO SEPTEMBER 1974

DATE	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED LITHIUM (LI) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
APR.. 1974												
23...	12.0	8.8	--	--	--	--	--	--	--	--	--	--
MAY												
03...	17.0	8.0	--	--	--	--	--	--	--	--	--	--
17...	10.0	10.5	1	--	--	--	--	--	--	.0	1	--
22...	17.0	10.8	1	55	120	0	<4	<20	8	.0	1	8
31...	18.0	8.6	2	0	130	1	2	3	10	.0	1	30
JUNE												
14...	18.0	9.2	1	200	140	0	2	8	10	.0	1	30
21...	21.0	13.2	4	0	140	2	4	6	10	.0	2	20
26...	18.5	11.8	1	<100	120	6	17	4	10	.1	1	20
JULY												
02...	14.0	12.6	3	<100	120	0	1	3	0	.0	1	30
11...	16.5	11.4	2	<100	130	2	9	5	0	.0	2	10
20...	17.5	11.6	0	0	60	1	8	3	0	.0	1	30
AUG.												
03...	10.5	10.0	1	0	130	1	6	2	0	.0	2	40
10...	13.0	8.9	1	0	130	1	5	3	0	.0	0	20
SEP.												
12...	13.0	10.0	1	0	130	<1	3	2	0	.2	1	0
27...	11.0	10.2	1	0	110	<1	1	2	0	.0	2	10

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DISCHARGE (CFS)	TEMPERATURE (DEG C)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
APR.. 1974				
23...	1.0	12.0	232	.67
MAY				
02...	1.3	--	209	.73
03...	1.6	17.0	339	1.5
04...	1.6	--	337	1.4
17...	1.1	.5	138	.41
17...	1.1	--	115	.34
18...	.89	--	241	.58
20...	.99	--	241	.64
22...	1.0	17.0	69	.20
31...	1.1	18.0	164	.50
JUNE				
05...	1.9	--	676	3.6
07...	1.3	--	136	.50
14...	.67	18.0	65	.12
26...	.99	18.5	93	.25
JULY				
02...	.79	14.0	65	.14
11...	1.3	--	156	.55
11...	1.3	16.5	119	.43
13...	1.2	--	131	.44
14...	1.2	--	179	.60
15...	1.2	--	149	.50
20...	.94	17.5	97	.25
AUG.				
03...	1.7	10.5	124	.60
10...	1.8	13.0	28	.14
13...	1.2	--	44	.15
14...	1.2	--	37	.13
15...	1.2	--	36	.12
16...	1.2	--	35	.12
21...	1.7	--	22	.11
22...	1.8	--	25	.13
23...	2.2	--	25	.15
24...	2.3	--	37	.23
25...	2.3	--	25	.16
26...	12	--	37	1.2
28...	2.7	--	47	.35
29...	.92	--	53	.13
30...	1.0	--	26	.07
SEP.. 1974				
01...	.88	--	36	.08
02...	.88	--	47	.11
03...	.92	--	26	.06
04...	.92	--	29	.07
08...	1.0	--	14	.04
09...	1.0	--	33	.09
10...	1.0	--	31	.09
11...	.92	--	22	.06
12...	.92	--	19	.05
12...	1.1	13.0	16	.05
12...	1.1	13.0	46	.14
27...	.57	11.0	33	.05

09306061 PICEANCE CREEK ABOVE HUNTER CREEK, NEAR RIO BLANCO, COLO.

LOCATION.--Lat 39°51'02", long 108°15'30", in SE¼NE¼ sec.27, T.2 S., R.97 W., Rio Blanco County, at gaging station 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 mi^2 (800 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1974 to September 1974.
Sediment records: April 1973 to September 1974.

EXTREMES, 1973-74.--Sediment concentrations: Maximum daily, 31,700 mg/l July 20; minimum daily, 63 mg/l June 17.
Sediment loads: Maximum daily, 4,370 tons (3,960 t) July 20; minimum daily, 1.0 tons (0.91 t) June 14.

WATER QUALITY DATA, APRIL TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
APR., 1974												
23...	30	16	110	30	75	55	120	3.3	524	0	430	220
MAY												
03...	33	17	20	10	73	54	120	3.7	511	0	419	220
17...	6.3	19	20	60	79	76	170	3.8	631	0	518	350
22...	6.0	18	50	70	83	82	180	3.9	674	0	553	350
31...	6.4	17	20	100	84	81	180	4.2	671	0	550	350
JUNE												
14...	4.6	16	20	100	77	80	180	4.2	636	0	522	330
21...	5.6	16	20	110	78	79	180	4.0	643	0	527	340
26...	4.6	15	50	190	77	84	200	6.4	669	0	549	360
JULY												
02...	6.0	17	30	150	84	88	180	3.8	690	0	566	350
11...	4.2	14	20	150	77	82	200	4.1	619	0	508	380
20...	33	12	130	70	72	47	120	5.5	491	0	403	220
AUG.												
10...	20	20	70	80	79	62	150	4.3	601	0	493	270
16...	15	19	40	60	67	65	160	4.7	584	--	479	260
31...	13	18	880	10	75	64	150	4.2	558	--	458	280
SEP.												
20...	9.8	17	90	60	73	64	150	2.5	443	--	363	280
26...	11	18	40	20	77	67	140	3.6	551	--	452	280

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
APR., 1974												
23...	13	1.0	.60	.04	765	62.0	1.04	410	0	2.6	1190	8.2
MAY												
03...	11	.9	.64	.01	754	67.2	1.03	400	0	2.6	1140	8.2
17...	14	.7	.62	.04	1030	17.5	1.40	510	0	3.3	1510	8.1
22...	15	.6	.35	.05	1070	17.3	1.46	540	0	3.4	1590	8.2
31...	15	1.5	.15	.03	1060	18.3	1.44	540	0	3.4	1560	8.2
JUNE												
14...	16	.7	.08	.02	1020	12.7	1.39	520	0	3.4	1540	8.2
21...	15	.6	.08	.01	1030	15.6	1.40	520	0	3.4	1540	8.2
26...	16	.7	.13	.03	1090	13.5	1.48	540	0	3.8	1660	8.0
JULY												
02...	15	.6	.19	.00	1080	17.5	1.47	570	6	3.3	1630	8.2
11...	16	.7	.22	.07	1080	12.2	1.47	530	22	3.8	1580	7.9
20...	13	.5	.68	.03	736	65.6	1.00	370	0	2.7	1140	7.6
AUG.												
10...	15	.7	.78	.06	901	48.7	1.23	450	0	3.1	1340	8.1
16...	15	.3	.32	.01	881	35.7	1.20	440	0	3.3	1360	7.7
31...	15	.7	.33	.03	885	31.1	1.20	450	0	3.1	1320	8.2
SEP.												
20...	13	.7	.42	.02	821	21.7	1.12	450	82	3.1	1180	8.1
26...	12	.8	.35	.03	872	25.9	1.19	470	16	2.8	1330	8.1

09306061 PICEANCE CREEK ABOVE HUNTER CREEK, NEAR RIO BLANCO, COLO.--Continued

WATER QUALITY DATA, APRIL TO SEPTEMBER 1974

DATE	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED LITHIUM (LI) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
APR., 1974												
23...	14.0	8.2	--	--	--	--	--	--	--	--	--	--
MAY												
03...	7.5	7.4	--	--	--	--	--	--	--	--	--	--
17...	11.0	9.2	1	--	--	--	--	--	--	.0	0	--
22...	16.0	9.6	2	70	190	0	<5	<20	6	.0	1	<10
31...	18.0	11.3	3	0	240	1	2	7	10	.0	1	20
JUNE												
14...	21.5	10.2	3	100	240	1	9	8	10	.0	2	20
21...	23.0	12.6	3	0	240	0	2	5	10	.0	1	20
26...	20.0	9.8	3	<100	240	1	3	4	0	.0	1	30
JULY												
02...	16.0	12.0	6	<100	250	0	1	2	0	.0	2	20
11...	21.0	14.0	4	<100	270	2	5	3	0	.0	1	10
20...	14.5	7.6	3	0	320	1	20	4	0	.0	0	50
AUG.												
10...	18.0	6.8	3	0	230	<1	3	2	0	.5	1	20
16...	20.0	7.7	2	0	240	2	6	1	0	.0	1	0
31...	18.0	9.6	2	100	230	<1	6	8	0	.0	1	10
SEP.												
20...	13.5	9.0	4	0	200	1	7	1	0	.0	0	40
26...	15.5	8.0	0	0	180	<1	6	2	0	.0	1	10

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	APRIL MEAN DISCHARGE (CFS)	APRIL MEAN CONCENTRATION (MG/L)	APRIL SEDIMENT DISCHARGE (TONS/DAY)	MAY MEAN DISCHARGE (CFS)	MAY MEAN CONCENTRATION (MG/L)	MAY SEDIMENT DISCHARGE (TONS/DAY)	JUNE MEAN DISCHARGE (CFS)	JUNE MEAN CONCENTRATION (MG/L)	JUNE SEDIMENT DISCHARGE (TONS/DAY)
1	--	--	--	28	720	54	6.0	85	1.4
2	--	--	--	30	756	61	7.3	103	2.0
3	--	--	--	30	804	65	9.8	113	3.0
4	--	--	--	24	864	56	8.8	96	2.3
5	--	--	--	20	870	47	10	97	2.6
6	--	--	--	16	744	32	11	99	2.9
7	--	--	--	12	798	26	6.8	79	1.5
8	--	--	--	9.6	870	23	18	123	6.0
9	--	--	--	7.6	551	11	15	117	4.7
10	--	--	--	6.6	420	7.5	10	88	2.4
11	--	--	--	6.6	240	4.3	7.3	78	1.5
12	--	--	--	6.5	192	3.4	6.4	70	1.2
13	--	--	--	6.5	162	2.8	6.0	67	1.1
14	--	--	--	6.4	156	2.7	5.6	66	1.0
15	--	--	--	6.4	150	2.6	5.7	78	1.1
16	--	--	--	6.3	144	2.4	7.3	67	1.3
17	--	--	--	6.3	138	2.3	8.8	63	1.5
18	--	--	--	6.3	121	2.1	9.2	82	2.0
19	23	654	41	6.3	121	2.1	9.2	75	1.9
20	22	672	40	6.2	110	1.8	6.4	102	1.8
21	24	690	45	6.0	96	1.6	6.4	98	1.7
22	24	720	47	6.0	82	1.3	6.0	84	1.4
23	25	774	52	5.6	84	1.3	6.8	82	1.5
24	28	774	59	8.8	132	3.1	8.2	78	1.7
25	30	786	64	10	120	3.2	6.4	92	1.6
26	30	768	62	9.6	120	3.1	4.6	93	1.2
27	27	732	53	9.2	122	3.0	6.4	114	2.0
28	26	738	52	9.8	112	3.0	5.6	126	1.9
29	25	720	49	9.2	112	2.8	5.2	136	1.9
30	27	720	52	6.8	87	1.6	5.2	129	1.8
31	--	--	--	6.4	73	1.3	--	--	--

09306061 PICEANCE CREEK ABOVE HUNTER CREEK, NEAR RIO BLANCO, COLO.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	5.2	94	1.3	10	226	6.1	14	638	24
2	5.6	108	1.6	8.8	198	4.7	12	668	22
3	5.6	140	2.1	9.2	214	5.3	12	632	20
4	6.0	150	2.4	11	170	5.0	12	527	17
5	5.6	269	4.1	9.2	192	4.8	12	345	11
6	5.6	260	3.9	9.2	176	4.4	12	355	12
7	5.6	256	3.9	7.3	170	3.4	12	392	13
8	5.2	237	3.3	8.2	300	7.8	12	351	11
9	5.2	207	2.9	17	1910	112	12	559	18
10	5.2	181	2.5	21	2990	198	12	506	16
11	4.9	172	2.3	16	876	38	12	456	15
12	4.9	185	2.4	14	748	28	12	362	12
13	4.9	107	1.4	12	609	20	12	374	12
14	5.6	185	2.8	12	640	21	12	342	11
15	6.4	175	3.0	14	580	22	15	405	16
16	6.8	107	2.0	13	440	15	18	3050	159
17	11	660	23	13	660	23	15	412	17
18	11	325	9.7	20	1780	112	14	244	9.2
19	8.8	220	5.2	24	1420	92	12	228	7.4
20	37	31700	4370	24	1060	69	10	169	4.6
21	14	1330	50	25	1120	76	8.2	120	2.7
22	12	359	12	24	940	61	9.2	144	3.6
23	8.8	280	6.7	24	550	36	9.2	117	2.9
24	8.8	290	6.9	23	1160	72	9.2	78	1.9
25	6.4	280	4.8	23	1090	68	9.2	129	3.2
26	5.2	235	3.3	25	1520	103	9.8	96	2.5
27	6.4	190	3.3	22	1160	69	12	174	5.6
28	8.8	180	4.3	20	936	51	9.8	174	4.6
29	8.2	200	4.4	17	621	29	8.8	180	4.3
30	9.2	175	4.3	15	577	23	5.6	162	2.4
31	11	194	5.8	15	472	19	--	--	--

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, COLO.

LOCATION.--Lat 39°55'16", long 108°17'49", in sec.32, T.1 S., R.97 W., Rio Blanco County, at gaging station, 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 mi^2 (1,256 km^2).

PERIOD OF RECORD.--Chemical analyses: December 1970 to September 1974.
Sediment records: October 1972 to September 1974.

EXTREMES, 1973-74.--Sediment concentrations: Maximum daily, 16,000 mg/l July 12; minimum daily, 70 mg/l July 6, 7, 8, 9, 10.
Sediment loads: Maximum daily, 267 tons (242 t) Mar. 17; minimum daily, 0.64 tons (0.58 t) July 8.

Period of record.--Sediment concentrations: Maximum daily, 16,000 mg/l July 12, 1974; minimum daily, 30 mg/l Apr. 22, 1973.
Sediment loads: Maximum daily, 1,010 tons (916 t) May 26, 1973; minimum daily, 0.64 tons (0.58 t) July 8, 1974.

REVISIONS.--Revised figures for suspended-sediment concentrations and discharge for water year 1973 superseding those previously published are given.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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., 1973												
04...	34	19	100	16	92	90	170	2.7	572	0	469	420
NOV.												
15...	34	18	30	30	92	83	160	3.7	562	0	461	400
JAN., 1974												
10...	32	18	20	50	93	82	150	2.4	577	0	473	410
FEB.												
14...	31	1.4	20	25	93	85	150	2.9	559	0	459	390
MAR.												
28...	31	17	140	20	93	81	160	2.7	577	0	473	400
MAY												
16...	4.9	18	30	130	50	100	300	4.2	870	0	714	410
JUNE												
10...	17	19	60	70	93	100	230	4.9	769	0	631	470
JULY												
03...	5.5	18	100	170	76	110	380	4.7	902	0	740	570
AUG.												
16...	34	20	50	10	85	77	160	4.7	589	--	483	350
SEP.												
25...	11	18	140	100	82	94	210	4.0	691	--	567	450

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT., 1973												
04...	12	.5	.25	.06	1090	600	130	3.0	1550	7.8	7.5	10.4
NOV.												
15...	13	.4	.53	.06	1050	570	110	2.9	1500	8.1	2.5	11.6
JAN., 1974												
10...	9.1	.6	.61	.02	1050	570	97	2.7	1530	7.9	.0	12.4
FEB.												
14...	12	.7	.07	.00	1010	580	120	2.7	1490	7.9	1.5	11.4
MAR.												
28...	12	.8	.49	.03	1050	570	92	2.9	1500	8.1	8.0	--
MAY												
16...	21	1.0	.45	.06	1340	540	0	5.6	2110	8.1	11.5	9.6
JUNE												
10...	16	.8	.10	.06	1310	640	13	3.9	1930	8.3	17.5	9.0
JULY												
03...	22	.8	.01	.02	1630	640	0	6.5	2210	8.3	21.0	9.2
AUG.												
16...	14	.6	.33	.02	1000	530	46	3.0	1540	7.9	16.0	8.8
SEP.												
25...	15	.5	.12	.01	1220	590	25	3.8	1810	8.3	14.0	9.3

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, COLO.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER MEAN DISCHARGE (CFS)	OCTOBER MEAN CONCENTRATION (MG/L)	OCTOBER SEDIMENT DISCHARGE (TONS/DAY)	NOVEMBER MEAN DISCHARGE (CFS)	NOVEMBER MEAN CONCENTRATION (MG/L)	NOVEMBER SEDIMENT DISCHARGE (TONS/DAY)	DECEMBER MEAN DISCHARGE (CFS)	DECEMBER MEAN CONCENTRATION (MG/L)	DECEMBER SEDIMENT DISCHARGE (TONS/DAY)
1	6.0	110	1.8	19	170	8.7	18	150	7.3
2	6.0	112	1.8	18	150	7.3	19	170	8.7
3	5.5	112	1.7	17	130	6.0	17	130	6.0
4	6.9	112	2.1	18	150	7.3	17	130	6.0
5	7.7	112	2.3	19	170	8.7	19	170	8.7
6	9.4	112	2.8	19	170	8.7	17	130	6.0
7	8.6	112	2.6	18	150	7.3	17	130	6.0
8	9.0	112	2.7	18	150	7.3	19	170	8.7
9	9.0	112	2.7	18	150	7.3	16	130	5.6
10	6.3	112	1.9	17	137	6.3	11	110	3.3
11	5.1	112	1.5	19	170	8.7	11	110	3.3
12	3.7	112	1.1	18	150	7.3	11	110	3.3
13	3.9	112	1.2	18	150	7.3	11	110	3.3
14	4.3	112	1.3	17	130	6.0	10	110	3.0
15	5.5	112	1.7	18	150	7.3	11	110	3.3
16	6.0	112	1.8	16	130	5.6	11	110	3.3
17	5.7	112	1.7	16	130	5.6	12	120	3.9
18	5.7	112	1.7	17	130	6.0	12	120	3.9
19	5.7	112	1.7	18	150	7.3	11	110	3.3
20	5.5	112	1.7	18	150	7.3	12	120	3.9
21	5.5	112	1.7	18	150	7.3	11	110	3.3
22	5.7	112	1.7	18	150	7.3	12	120	3.9
23	5.7	112	1.7	18	150	7.3	12	120	3.9
24	5.7	112	1.7	19	170	8.7	11	110	3.3
25	5.7	112	1.7	19	170	8.7	11	110	3.3
26	5.5	112	1.7	18	150	7.3	10	110	3.0
27	6.3	112	1.9	19	170	8.7	11	110	3.3
28	7.7	112	2.3	17	130	6.0	11	110	3.3
29	9.0	112	2.7	16	130	5.6	11	110	3.3
30	12	120	3.9	19	170	8.7	10	110	3.0
31	17	130	6.0	---	---	---	10	110	3.0

DAY	JANUARY MEAN DISCHARGE (CFS)	JANUARY MEAN CONCENTRATION (MG/L)	JANUARY SEDIMENT DISCHARGE (TONS/DAY)	FEBRUARY MEAN DISCHARGE (CFS)	FEBRUARY MEAN CONCENTRATION (MG/L)	FEBRUARY SEDIMENT DISCHARGE (TONS/DAY)	MARCH MEAN DISCHARGE (CFS)	MARCH MEAN CONCENTRATION (MG/L)	MARCH SEDIMENT DISCHARGE (TONS/DAY)
1	9.0	110	2.7	11	110	3.3	27	400	29
2	9.0	110	2.7	11	110	3.3	27	400	29
3	10	110	3.0	12	120	3.9	22	300	18
4	11	110	3.3	14	120	4.5	21	260	15
5	10	110	3.0	15	120	4.9	21	260	15
6	10	110	3.0	14	120	4.5	19	170	8.7
7	11	110	3.3	15	120	4.9	18	150	7.3
8	11	110	3.3	15	120	4.9	18	150	7.3
9	11	110	3.3	15	120	4.9	19	170	8.7
10	11	110	3.3	15	120	4.9	19	170	8.7
11	10	110	3.0	16	130	5.6	20	220	12
12	11	110	3.3	16	130	5.6	25	700	47
13	12	120	3.9	15	120	4.9	27	720	52
14	11	110	3.3	15	120	4.9	21	322	18
15	11	110	3.3	14	120	4.5	20	277	15
16	11	110	3.3	14	120	4.5	21	288	16
17	11	110	3.3	13	120	4.2	28	610	46
18	10	110	3.0	12	120	3.9	31	536	45
19	11	110	3.3	12	120	3.9	28	850	64
20	11	110	3.3	13	120	4.2	31	1400	117
21	9.0	110	2.7	13	120	4.2	35	1280	121
22	9.0	110	2.7	15	120	4.9	26	500	35
23	9.0	110	2.7	21	260	15	24	295	19
24	9.0	110	2.7	24	300	19	22	271	16
25	10	110	3.0	19	170	8.7	22	282	17
26	11	110	3.3	19	170	8.7	22	310	18
27	11	110	3.3	20	220	12	22	322	19
28	9.0	110	2.7	22	300	18	21	256	15
29	10	110	3.0	---	---	---	21	240	14
30	11	110	3.3	---	---	---	20	222	12
31	12	120	3.9	---	---	---	19	169	8.7

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, COLO.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY) , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	19	181	9.3	46	2400	298	61	770	127
2	19	139	7.1	41	2060	228	73	1500	296
3	15	68	2.8	35	1440	136	69	830	155
4	15	42	1.7	33	1200	107	75	900	182
5	13	50	1.8	37	1000	100	76	808	166
6	11	41	1.2	49	1270	168	69	807	150
7	12	47	1.5	60	1700	275	65	850	149
8	14	53	2.0	57	1400	215	65	850	149
9	14	53	2.0	54	1300	190	61	839	138
10	15	59	2.4	63	1800	306	59	760	121
11	12	47	1.5	76	2500	513	58	669	105
12	11	41	1.2	82	2600	576	51	664	91
13	11	41	1.2	89	3100	745	44	614	73
14	13	59	2.1	91	3900	958	44	567	67
15	20	150	8.1	85	3350	769	45	496	60
16	18	110	5.3	86	3500	813	38	536	55
17	17	94	4.3	88	4110	977	36	604	59
18	19	140	7.2	90	3400	826	34	517	47
19	21	190	11	83	2800	627	33	553	49
20	18	110	5.3	93	3020	758	33	430	38
21	10	35	0.95	89	3100	745	33	270	24
22	9.4	30	0.76	83	2990	670	32	190	16
23	11	41	1.2	82	2630	582	33	144	13
24	12	47	1.5	79	2070	442	33	70	6.2
25	17	94	4.3	83	1830	410	33	290	26
26	21	190	11	96	3900	1010	29	442	35
27	19	140	7.2	95	3700	949	28	372	28
28	21	190	11	84	2700	612	28	484	36
29	22	300	18	81	2100	459	28	438	33
30	32	500	43	73	1300	256	26	348	24
31	---	---	---	67	830	150	---	---	---

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	26	381	27	45	681	83	51	478	66
2	25	329	22	43	616	72	52	420	59
3	26	305	21	43	583	68	52	354	50
4	26	274	19	44	583	69	51	360	50
5	26	299	21	46	590	73	50	358	48
6	23	248	15	47	498	63	49	323	43
7	21	123	7.0	45	457	56	50	310	42
8	21	184	10	43	488	57	49	303	40
9	21	202	11	42	541	61	48	302	39
10	23	282	18	42	554	63	46	372	46
11	25	244	16	42	557	63	46	289	36
12	26	518	36	42	550	62	46	267	33
13	30	570	46	41	701	78	42	260	29
14	32	380	33	42	550	62	36	235	23
15	31	504	42	42	550	62	35	240	23
16	34	423	39	42	550	62	38	224	23
17	34	414	38	48	1400	181	39	213	22
18	34	567	52	51	1180	162	40	203	22
19	45	600	73	58	685	107	39	210	22
20	46	617	77	56	675	102	37	250	25
21	46	669	83	58	672	105	35	194	18
22	47	524	66	61	708	117	30	187	15
23	45	591	72	64	770	133	31	220	18
24	47	1360	173	58	556	87	32	240	21
25	53	1280	183	57	554	85	34	250	23
26	60	842	136	55	434	64	36	260	25
27	58	751	118	53	399	57	38	270	28
28	55	650	97	53	410	59	35	180	17
29	54	627	91	52	410	58	35	170	16
30	54	561	82	51	425	59	35	170	16
31	47	580	74	52	475	67	---	---	---

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, COLO.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER MEAN DISCHARGE (CFS)	OCTOBER MEAN CONCEN-TRATION (MG/L)	OCTOBER SEDIMENT DISCHARGE (TONS/DAY)	NOVEMBER MEAN DISCHARGE (CFS)	NOVEMBER MEAN CONCEN-TRATION (MG/L)	NOVEMBER SEDIMENT DISCHARGE (TONS/DAY)	DECEMBER MEAN DISCHARGE (CFS)	DECEMBER MEAN CONCEN-TRATION (MG/L)	DECEMBER SEDIMENT DISCHARGE (TONS/DAY)
1	35	166	16	39	270	28	36	300	29
2	35	120	11	39	270	28	36	300	29
3	34	86	7.9	40	280	30	36	300	29
4	34	163	15	40	280	30	35	270	26
5	34	156	14	39	280	29	33	240	21
6	37	190	19	40	280	30	33	240	21
7	36	181	18	40	280	30	33	240	21
8	37	162	16	39	280	29	33	240	21
9	42	243	28	37	250	25	33	240	21
10	40	187	20	37	250	25	33	240	21
11	39	159	17	37	250	25	33	240	21
12	36	175	17	36	230	22	34	250	23
13	34	181	17	36	230	22	33	240	21
14	35	166	16	36	230	22	34	250	23
15	32	189	16	36	227	22	34	250	23
16	32	203	18	35	220	21	34	250	23
17	30	114	9.2	36	230	22	33	240	21
18	31	136	11	36	230	22	34	250	23
19	34	161	15	42	350	40	33	240	21
20	36	123	12	39	445	47	31	210	18
21	36	148	14	37	320	32	31	210	18
22	34	153	14	36	305	30	31	210	18
23	36	188	18	36	300	29	31	210	18
24	35	178	17	36	298	29	31	210	18
25	34	150	14	36	564	55	31	210	18
26	34	150	14	36	238	23	31	210	18
27	34	150	14	36	300	29	32	220	19
28	34	150	14	36	300	29	32	220	19
29	37	190	19	36	300	29	32	220	19
30	38	200	21	36	300	29	33	240	21
31	42	300	34	--	--	--	28	180	14

DAY	JANUARY MEAN DISCHARGE (CFS)	JANUARY MEAN CONCEN-TRATION (MG/L)	JANUARY SEDIMENT DISCHARGE (TONS/DAY)	FEBRUARY MEAN DISCHARGE (CFS)	FEBRUARY MEAN CONCEN-TRATION (MG/L)	FEBRUARY SEDIMENT DISCHARGE (TONS/DAY)	MARCH MEAN DISCHARGE (CFS)	MARCH MEAN CONCEN-TRATION (MG/L)	MARCH SEDIMENT DISCHARGE (TONS/DAY)
1	25	130	8.8	32	220	19	36	300	29
2	25	130	8.8	31	210	18	45	470	57
3	25	130	8.8	31	210	18	48	540	70
4	25	130	8.8	32	220	19	40	370	40
5	25	130	8.8	32	220	19	36	300	29
6	26	140	9.8	32	220	19	39	330	35
7	28	180	14	31	210	18	42	400	45
8	31	210	18	31	210	18	46	500	62
9	32	220	19	31	210	18	49	570	75
10	32	220	19	31	210	18	51	650	90
11	32	220	19	31	210	18	45	470	57
12	32	220	19	31	210	18	46	570	71
13	32	220	19	31	210	18	46	710	88
14	32	220	19	31	210	18	45	610	74
15	32	220	19	34	250	23	43	565	66
16	32	220	19	33	240	21	44	650	77
17	32	220	19	32	220	19	55	1800	267
18	32	220	19	32	220	19	57	1720	265
19	32	220	19	32	220	19	52	1050	147
20	32	220	19	32	220	19	46	722	90
21	32	220	19	33	240	21	40	578	62
22	32	220	19	32	220	19	37	457	45
23	32	220	19	32	220	19	35	341	32
24	32	220	19	32	220	19	34	306	28
25	32	220	19	32	220	19	33	272	24
26	32	220	19	34	250	23	34	288	26
27	31	210	18	33	240	21	34	242	22
28	30	200	16	33	240	21	32	246	21
29	30	200	16	--	--	--	32	285	25
30	30	200	16	--	--	--	30	285	23
31	30	200	16	--	--	--	32	241	21

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, COLO.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	32	207	18	39	650	68	3.4	80	.73
2	36	212	21	38	600	62	3.4	80	.73
3	37	233	23	37	570	57	4.3	90	1.0
4	36	268	26	34	540	50	5.3	90	1.3
5	36	264	26	34	540	50	7.2	100	1.9
6	37	256	26	34	540	50	14	130	4.9
7	37	277	28	25	449	30	9.4	100	2.5
8	36	212	21	26	470	33	18	190	9.2
9	37	277	28	28	510	39	20	220	12
10	45	799	103	23	400	25	15	144	5.8
11	37	387	39	17	300	14	10	100	2.7
12	40	360	39	14	260	9.8	8.3	90	2.0
13	39	351	37	13	240	8.4	8.3	90	2.0
14	38	337	35	8.0	200	4.3	7.4	80	1.6
15	39	384	40	5.7	180	2.8	6.6	80	1.4
16	41	570	63	4.9	179	2.4	8.0	90	1.9
17	37	557	56	4.3	150	1.7	8.6	90	2.1
18	37	466	47	3.5	120	1.1	8.3	90	2.0
19	36	411	40	3.0	100	.81	10	100	2.7
20	35	311	29	3.2	100	.86	8.6	90	2.1
21	36	392	38	3.9	100	1.1	7.7	80	1.7
22	33	416	37	4.1	100	1.1	9.7	100	2.6
23	32	461	40	3.7	100	1.0	9.4	100	2.5
24	34	577	53	5.1	100	1.4	8.0	90	1.9
25	35	620	59	7.2	110	2.1	8.0	90	1.9
26	36	660	64	7.7	110	2.3	8.0	90	1.9
27	34	580	53	7.2	110	2.1	8.0	90	1.9
28	39	670	71	6.3	110	1.9	8.3	90	2.0
29	40	700	76	5.7	100	1.5	8.0	90	1.9
30	38	600	62	6.0	100	1.6	7.7	80	1.7
31	--	--	--	4.5	90	1.1	--	--	--

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	8.0	90	1.9	31	500	42	25	350	24
2	6.9	80	1.5	29	440	34	24	340	22
3	5.7	84	1.3	28	400	30	24	340	22
4	5.7	80	1.2	28	400	30	24	340	22
5	5.5	80	1.2	28	400	30	21	300	17
6	4.9	70	.93	28	391	30	12	364	12
7	3.9	70	.74	28	407	31	5.1	484	6.7
8	3.4	70	.64	28	468	35	4.5	470	5.7
9	3.5	70	.66	30	600	49	4.3	459	5.3
10	4.1	70	.77	40	960	104	4.7	604	7.7
11	4.3	410	4.8	36	840	82	6.9	160	3.0
12	4.3	16000	186	36	619	60	10	217	5.9
13	4.3	1300	15	36	674	66	12	143	4.6
14	4.5	490	6.0	36	530	52	10	192	5.2
15	5.1	210	2.9	36	530	52	11	187	5.6
16	6.9	950	18	34	460	42	14	151	5.7
17	6.9	80	1.5	33	430	38	12	119	3.9
18	11	110	3.3	34	460	42	10	120	3.2
19	11	210	6.2	36	530	52	10	120	3.2
20	36	740	72	36	530	52	10	120	3.2
21	27	390	28	38	580	60	9.4	120	3.0
22	22	250	15	40	650	70	9.4	120	3.0
23	19	200	10	39	620	65	9.0	120	2.9
24	24	310	20	37	540	54	9.0	120	2.9
25	19	720	37	37	540	54	9.7	126	3.3
26	18	250	12	36	530	52	11	130	3.9
27	20	250	14	34	460	42	14	180	6.8
28	27	500	36	32	400	35	13	160	5.6
29	32	550	48	28	380	29	12	150	4.9
30	31	500	42	27	370	27	12	150	4.9
31	31	500	42	26	360	25	--	--	--

09306210 PICEANCE CREEK NEAR WHITE RIVER, COLO.

LOCATION.--Lat 39°56'21", long 108°17'19", in NE¼NW¼ sec.28, T.1 S., R.97 W., Rio Blanco County, 0.5 mi (0.8 km) downstream from Hutch Gulch, 11 mi (18 km) southwest of White River and 23 mi (37 km) northwest of Rio Blanco.

DRAINAGE AREA.--495 mi^2 (1,282 km^2).

PERIOD OF RECORD.--Chemical analyses: December 1970 to September 1974.

REMARKS.--Records of discharge are given for 09306200 Piceance Creek below Ryan Gulch, near Rio Blanco.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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.. 1973												
04...	34	19	40	8	89	92	180	2.5	586	0	481	430
NOV.												
15...	34	18	10	20	91	86	160	3.1	581	0	477	410
JAN.. 1974												
10...	32	18	20	40	88	83	160	2.6	591	0	485	400
FEB.												
14...	31	3.1	60	25	91	83	160	3.2	592	0	486	400
MAR.												
28...	32	17	210	20	92	86	170	2.7	593	0	486	410
JUNE												
10...	17	19	50	60	86	110	270	5.1	846	0	694	560
JULY												
03...	5.5	15	110	70	74	120	370	4.8	961	0	788	630
AUG.												
16...	34	20	190	0	84	82	160	4.5	613	--	503	390
SEP.												
25...	11	19	480	50	81	92	300	4.7	826	--	678	540

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.. 1973												
04...	12	.6	.24	.06	1120	600	120	3.2	1600	7.8	6.5	11.2
NOV.												
15...	13	.5	.53	.06	1070	580	100	2.9	1540	8.1	2.0	11.8
JAN.. 1974												
10...	13	.5	.60	.03	1060	560	77	2.9	1540	8.0	.0	12.3
FEB.												
14...	13	.8	.14	.01	1050	570	83	2.9	1530	7.9	.0	12.2
MAR.												
28...	12	.8	.48	.03	1090	580	97	3.1	1540	8.1	8.0	--
JUNE												
10...	19	.8	.05	.06	1490	670	0	4.5	2150	8.3	20.0	9.8
JULY												
03...	27	.8	.03	.00	1720	680	0	6.2	2450	8.3	25.0	12.0
AUG.												
16...	15	.5	.33	.04	1060	550	45	3.0	1580	8.0	13.0	9.4
SEP.												
25...	20	.6	.13	.04	1470	580	0	5.4	2140	8.2	14.0	10.2

09306222 PICEANCE CREEK AT WHITE RIVER, COLO.

LOCATION.--Lat 40°04'39", long 108°14'08", in SE¼SE¼ sec.2, T.1 N., R.97 W., Rio Blanco County, at gaging station on bridge on county highway, 1 mi (2 km) southwest of White River, 1.3 mi (2.1 km) upstream from mouth, and 17 mi (27 km) west of Meeker.

DRAINAGE AREA.--629 mi² (1,629 km²).

PERIOD OF RECORD.--Chemical analyses: December 1970 to September 1974.
Water temperatures: January 1971 to September 1974.
Sediment records: March 1974 to September 1974.

EXTREMES, 1973-74.--Water temperatures: Maximum daily, 30°C June 23, 24, 27, 28; minimum daily, freezing point on many days during November to March.
Sediment concentrations: Maximum daily, 3,980 mg/l July 18; minimum daily, 119 mg/l June 5.
Sediment loads: Maximum daily, 369 tons (335 t) July 18; minimum daily, 2.0 tons (1.8 t) June 5.

Period of record: Specific conductance (1971-73): Maximum daily, 9,500 micromhos July 16, 1972; minimum daily, 687 micromhos Mar. 23, 1971.
Water temperatures: Maximum daily, 30°C June 23, 24, 27, 28, 1974; minimum daily, freezing point on many days during the winter months each year.
Sediment concentrations: Maximum daily, 3,980 mg/l July 18, 1974; minimum daily, 119 mg/l June 5, 1974.
Sediment loads: Maximum daily, 369 tons (335 t) July 18, 1974; minimum daily, 2.0 tons (1.8 t) June 5, 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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.. 1973												
04...	39	17	30	0	69	88	310	3.2	858	0	704	430
NOV.												
15...	41	17	30	10	82	90	290	4.2	838	0	687	440
JAN.. 1974												
10...	40	18	10	10	79	82	320	3.3	917	0	752	390
FEB.												
14...	35	15	40	17	78	80	340	3.6	978	0	802	390
MAR.												
28...	37	16	130	10	73	82	330	3.7	922	0	756	410
MAY												
14...	20	16	50	20	39	93	540	4.5	1250	0	1030	500
JUNE												
10...	28	18	100	20	65	110	520	5.8	1290	0	1060	540
JULY												
03...	7.8	9.1	270	10	40	100	1100	7.5	1160	667	2060	--
31...	26	19	20	0	16	93	420	4.8	748	--	614	510
AUG.												
16...	38	19	90	0	65	86	370	6.6	946	--	776	460
SEP.												
25...	16	16	310	20	55	99	570	5.6	1310	--	1080	540

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.. 1973												
04...	36	1.0	.19	.07	1380	530	0	5.8	2020	7.9	6.0	10.2
NOV.												
15...	38	.7	.48	.06	1380	580	0	5.3	1950	8.2	.0	11.6
JAN.. 1974												
10...	41	1.0	.65	.05	1390	540	0	6.0	2030	8.1	.0	11.1
FEB.												
14...	47	1.3	.58	.07	1440	520	0	6.5	2140	8.0	.0	11.6
MAR.												
28...	41	1.3	.54	.06	1410	520	0	6.3	2080	8.1	9.5	--
MAY												
14...	78	1.5	.62	.05	1890	480	0	11	2690	8.2	13.5	7.9
JUNE												
10...	58	1.5	.26	.10	1960	620	0	9.1	2920	8.2	16.0	8.2
JULY												
03...	--	.3	.01	.01	--	510	0	21	4640	8.6	20.0	9.0
31...	47	1.1	.47	.00	1480	420	0	8.9	2380	--	23.5	--
AUG.												
16...	41	1.1	.33	.04	1520	520	0	7.1	2210	--	11.5	--
SEP.												
25...	74	1.6	.13	.04	2010	550	0	11	2880	--	9.5	--

09306222 PICEANCE CREEK AT WHITE RIVER, COLO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) . WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2050	2200	1980	2400	1950	1850	2100	1600	4250	---	---	---
2	2100	2100	2000	2500	1900	1950	2100	1780	4530	---	---	---
3	2050	2100	2000	2700	1900	1950	2000	1750	4780	---	---	---
4	2100	2000	2000	2450	1750	2000	2100	1750	5600	---	---	---
5	2100	2100	2350	2300	1800	2000	2100	1750	5540	---	---	---
6	2100	2200	2350	2200	2000	2000	2100	1750	4920	---	---	---
7	2100	2300	2300	2000	1950	2000	2100	1850	3840	---	---	---
8	2100	2300	2200	2000	1900	2000	2000	2000	3450	---	---	---
9	2100	2300	2250	2100	1900	2000	1900	2000	2780	---	---	---
10	2100	2300	2200	2200	1850	1980	1800	2050	2910	---	---	---
11	2100	2300	2100	2350	1800	2100	1900	2050	3150	---	---	---
12	2100	2200	2150	2400	1900	2100	1800	2100	3330	---	---	---
13	2100	2200	2200	2100	1900	2000	1950	2100	3350	---	---	---
14	2200	2250	2100	2050	1800	1980	2000	2250	3420	---	---	---
15	2100	2250	1800	2100	1700	1980	2050	2300	3870	---	---	---
16	2100	2200	1900	2100	1900	1980	2000	3500	3980	---	---	---
17	2200	2200	1980	2050	1850	1950	1930	3750	3810	---	---	---
18	2200	2200	1880	2000	1900	1900	1900	4000	3680	---	---	---
19	2100	2000	2200	2100	1900	1850	1830	4150	3590	---	---	---
20	2100	1800	2300	2100	1900	1900	1780	4150	3610	---	---	---
21	2150	2100	2100	2100	2100	1900	1780	4200	3920	---	---	---
22	2150	2100	2100	2200	1980	1900	1900	4300	4180	---	---	---
23	2100	2100	1630	2200	2100	1900	1900	4350	4200	---	---	---
24	2100	2100	1680	2000	2000	1800	1850	---	4240	---	---	---
25	2100	2150	1700	2050	1880	2000	1850	---	4080	---	---	---
26	---	2100	1700	2000	1750	2100	1750	---	4190	---	---	---
27	---	1800	1630	2000	1800	2050	1700	---	4250	---	---	---
28	---	2000	1900	1950	1900	2000	1600	---	4330	---	---	---
29	---	2000	2000	1900	---	2100	1600	---	4500	---	---	---
30	---	2100	2000	2000	---	2100	1600	---	---	---	---	---
31	---	---	2100	2000	---	2100	---	4310	---	---	---	---

TEMPERATURE (DEG. C) OF WATER . WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	5.0	1.0	0.0	0.0	0.0	2.0	5.0	16.5	16.5	18.5	13.0
2	11.0	4.0	1.0	0.0	0.0	0.0	---	6.0	16.5	19.5	18.0	13.0
3	9.0	2.0	0.0	0.0	0.0	0.0	3.0	7.0	16.0	18.0	17.0	12.5
4	6.0	0.5	0.0	0.0	0.0	1.0	3.0	8.0	16.5	16.5	17.0	11.0
5	6.0	3.0	0.0	0.0	0.0	2.0	3.0	9.0	13.5	16.5	16.0	10.5
6	8.0	6.0	0.0	0.0	0.0	3.0	4.0	9.0	14.0	20.0	---	10.5
7	9.0	8.0	0.0	0.0	0.0	3.0	4.0	9.0	12.5	21.0	15.5	10.5
8	8.0	8.0	0.0	0.0	0.0	3.0	5.0	10.0	8.5	21.0	15.5	10.5
9	8.0	6.0	0.0	0.0	0.0	4.0	6.0	10.0	13.5	11.5	16.0	7.0
10	7.0	4.0	0.0	0.0	0.0	5.0	6.0	10.0	17.0	13.0	16.0	---
11	7.0	3.0	0.0	0.0	0.0	4.0	5.0	10.0	18.0	20.5	16.5	---
12	8.0	3.0	0.0	0.0	0.0	3.0	5.0	10.0	18.0	20.0	16.5	---
13	8.0	2.0	0.0	0.0	0.0	4.0	5.0	10.0	18.5	---	16.5	---
14	9.0	1.0	0.0	0.0	0.0	5.0	5.0	10.0	19.5	---	16.0	---
15	7.0	2.0	0.0	0.0	0.0	5.0	6.0	10.0	19.5	---	15.0	---
16	8.0	5.0	0.0	0.0	0.0	6.0	6.0	10.0	18.5	---	15.0	---
17	6.0	2.0	0.0	0.0	0.0	6.0	7.0	10.0	19.0	---	---	---
18	6.0	4.0	0.0	0.0	0.0	7.0	7.0	12.0	19.5	---	---	---
19	6.0	2.0	0.0	0.0	0.0	8.0	7.0	17.0	18.5	---	13.5	---
20	6.0	0.0	0.0	0.0	0.0	4.0	5.0	12.0	19.0	---	14.5	---
21	6.0	2.0	0.0	0.0	0.0	1.0	6.0	8.0	19.0	21.0	14.0	---
22	6.0	2.0	0.0	0.0	0.0	1.0	6.0	7.0	20.0	20.5	14.0	---
23	6.0	1.0	0.0	0.0	0.0	1.0	6.0	7.0	21.0	21.0	14.0	---
24	6.0	1.0	0.0	0.0	0.0	2.0	7.0	---	20.5	19.5	15.5	---
25	5.0	1.0	0.0	0.0	0.0	3.0	9.0	---	20.5	---	15.0	15.5
26	5.0	1.0	0.0	0.0	0.0	4.0	10.0	---	20.5	---	13.5	12.5
27	5.0	0.0	0.0	0.0	0.0	5.0	9.0	---	21.0	---	11.0	10.5
28	5.0	0.0	0.0	0.0	0.0	5.0	11.0	---	20.5	---	11.0	10.0
29	5.0	0.0	0.0	0.0	---	3.0	11.0	---	15.0	---	12.0	10.5
30	5.0	0.0	0.0	0.0	---	6.0	12.0	---	---	---	12.5	10.5
31	5.0	---	0.0	0.0	---	4.0	---	20.5	---	21.5	13.5	---

09306222 PICEANCE CREEK AT WHITE RIVER, COLO.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	JANUARY MEAN DISCHARGE (CFS)	JANUARY MEAN CONCEN-TRATION (MG/L)	JANUARY SEDIMENT DISCHARGE (TONS/DAY)	FEBRUARY MEAN DISCHARGE (CFS)	FEBRUARY MEAN CONCEN-TRATION (MG/L)	FEBRUARY SEDIMENT DISCHARGE (TONS/DAY)	MARCH MEAN DISCHARGE (CFS)	MARCH MEAN CONCEN-TRATION (MG/L)	MARCH SEDIMENT DISCHARGE (TONS/DAY)
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27							38	423	43
28							37	429	43
29							37	397	40
30							37	390	39
31							41	450	50

DAY	APRIL MEAN DISCHARGE (CFS)	APRIL MEAN CONCEN-TRATION (MG/L)	APRIL SEDIMENT DISCHARGE (TONS/DAY)	MAY MEAN DISCHARGE (CFS)	MAY MEAN CONCEN-TRATION (MG/L)	MAY SEDIMENT DISCHARGE (TONS/DAY)	JUNE MEAN DISCHARGE (CFS)	JUNE MEAN CONCEN-TRATION (MG/L)	JUNE SEDIMENT DISCHARGE (TONS/DAY)
1	41	426	47	57	900	139	7.2	190	3.7
2	45	417	51	58	900	141	6.8	170	3.1
3	50	470	63	58	840	132	6.5	160	2.8
4	52	520	73	55	840	125	5.8	135	2.1
5	56	576	87	51	780	107	6.2	119	2.0
6	60	660	107	54	780	114	8.0	135	2.9
7	66	780	139	43	780	91	9.9	166	4.4
8	60	720	117	40	720	78	24	719	65
9	70	960	181	41	720	80	37	892	89
10	68	840	154	36	720	70	27	620	45
11	60	780	126	31	660	55	18	420	20
12	60	720	117	25	600	41	15	464	19
13	56	720	109	21	570	32	15	382	15
14	50	720	97	20	520	28	13	320	11
15	52	720	101	16	329	14	9.9	300	8.0
16	54	780	114	12	229	7.4	9.0	280	6.8
17	56	840	127	9.7	216	5.7	10	340	9.2
18	58	840	132	9.2	224	5.6	11	450	13
19	60	840	136	8.8	204	4.8	12	600	19
20	50	780	105	9.0	224	5.4	11	440	13
21	52	720	101	9.5	240	6.2	10	320	8.6
22	54	660	96	9.5	200	5.1	9.0	290	7.0
23	50	660	89	9.0	188	4.6	9.0	280	6.8
24	56	720	109	9.0	184	4.5	9.0	290	7.0
25	52	780	110	9.7	200	5.2	9.5	320	8.2
26	60	960	156	11	232	6.9	8.8	260	6.2
27	68	1200	220	12	248	8.0	8.8	250	5.9
28	66	1100	196	12	240	7.8	8.6	220	5.1
29	62	1100	184	8.6	221	5.1	8.0	200	4.3
30	58	960	150	8.2	216	4.8	7.6	180	3.7
31	--	--	--	7.8	195	4.1	--	--	--

09306222 PICEANCE CREEK AT WHITE RIVER, COLO.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	7.6	170	3.5	28	378	29	28	220	17
2	7.6	170	3.5	26	360	25	27	200	15
3	7.8	169	3.6	25	342	23	26	190	13
4	8.0	222	4.8	24	315	20	27	200	15
5	8.4	221	5.0	24	297	19	28	320	24
6	8.8	221	5.3	23	288	18	26	270	19
7	8.6	214	5.0	22	270	16	19	200	10
8	8.2	208	4.6	22	252	15	17	180	8.3
9	8.2	208	4.6	22	252	15	16	180	7.8
10	8.2	208	4.6	37	364	36	15	170	6.9
11	8.0	195	4.2	42	333	38	14	170	6.4
12	8.2	214	4.7	41	346	38	14	160	6.0
13	8.4	240	5.4	39	657	69	18	290	14
14	8.6	206	4.8	39	446	47	17	250	11
15	8.9	228	5.5	38	459	47	17	230	11
16	10	575	28	39	248	26	19	230	12
17	18	3610	188	38	230	24	19	230	12
18	33	3980	369	37	230	23	17	220	10
19	22	1380	82	36	220	21	16	180	7.8
20	36	3160	355	36	220	21	16	160	6.9
21	41	3150	349	36	220	21	16	150	6.5
22	30	2790	226	39	240	25	16	140	6.0
23	25	2200	149	45	500	61	16	140	6.0
24	25	855	58	45	470	57	16	140	6.0
25	27	464	34	45	360	44	17	162	7.4
26	26	423	30	45	320	39	19	257	13
27	25	414	28	45	310	38	20	230	12
28	25	414	28	42	270	31	19	216	11
29	26	414	29	36	252	24	18	220	11
30	26	405	28	28	230	17	17	225	10
31	28	396	30	28	220	17	--	--	--

09306230 STAKE SPRINGS DRAW NEAR RANGELY, COLO.

LOCATION.--Lat 39°55'37", long 108°25'14", in NW¼NW¼ sec.32, T.1 S., R.98 W., Rio Blanco County, at gaging station, on left bank 0.4 mi (0.6 km) upstream from confluence with Corral Gulch, 22 mi (35 km) southeast of Rangely.

DRAINAGE AREA.--26.1 mi^2 (67.6 km^2).

PERIOD OF RECORD.--Chemical analyses: April to September 1974.

REMARKS.--No flow during period of record.

09306235 CORRAL GULCH BELOW WATER GULCH, NEAR RANGELY, COLO.

LOCATION.--Lat 39°54'22", long 108°31'56", in SE¼NW¼ sec.5, T.2 S., R.99 W., Rio Blanco County, at gaging station, on left bank 0.1 mi (0.2 km) downstream from Water Gulch, 19 mi (31 km) southeast of Rangely.

DRAINAGE AREA.--8.61 mi^2 (22.30 km^2).

PERIOD OF RECORD.--Chemical analyses: March to September 1974.

WATER QUALITY DATA, MARCH TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
MAR., 1974												
14...	.15	20	20	0	85	55	84	1.3	379	0	311	280
25...	.07	19	0	0	92	57	85	1.4	398	0	326	280
APR.												
04...	.29	19	20	--	92	58	88	1.4	427	0	350	260
19...	.17	22	80	0	90	60	88	1.2	386	0	317	320
27...	.44	24	250	40	87	59	88	1.8	454	0	372	270
MAY												
03...	.50	24	60	20	90	56	78	1.7	412	0	338	260
17...	.74	23	140	10	97	57	74	1.2	411	0	337	260
24...	.63	24	20	10	92	62	76	.9	--	--	--	270
30...	.54	24	10	0	82	60	78	1.3	355	0	291	270
JUNE												
13...	.40	22	190	0	84	59	86	1.1	379	0	311	290
21...	.39	22	20	0	80	60	86	1.4	377	0	309	270
27...	.35	18	70	160	80	59	85	1.5	367	0	301	290
JULY												
03...	.29	21	40	0	96	62	83	1.1	402	0	330	270
12...	.24	22	100	20	92	60	82	1.8	389	0	319	280
20...	.17	13	80	0	99	62	84	1.4	391	0	321	290
AUG.												
02...	.41	23	150	10	94	57	86	1.3	400	0	328	290
10...	.28	22	120	30	88	57	86	1.6	404	0	331	290
31...	.32	22	280	0	85	56	85	2.5	384	--	315	290
SEP.												
13...	.29	21	70	10	62	70	84	2.8	396	--	325	280
26...	.29	22	200	0	78	62	86	2.1	371	--	304	290

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
MAR., 1974												
14...	7.4	.3	1.1	.03	725	.29	.99	440	130	1.7	1060	7.9
25...	8.2	.6	2.2	.03	749	.14	1.02	460	140	1.7	1100	7.8
APR.												
04...	7.1	.8	1.2	.03	742	.58	1.01	470	120	1.8	1110	8.1
19...	8.0	.3	1.0	.01	784	.36	1.07	470	160	1.8	1100	7.9
27...	7.5	.9	.95	.05	767	.91	1.04	460	88	1.8	1140	7.9
MAY												
03...	6.7	1.5	1.8	.02	729	.98	.99	460	120	1.6	1090	8.0
17...	5.7	.7	1.9	.00	730	1.46	.99	480	140	1.5	1080	7.9
24...	6.9	.3	1.8	.03	--	--	--	490	--	1.5	1100	8.4
30...	6.0	.3	1.6	.02	704	1.03	.96	450	160	1.6	1050	7.9
JUNE												
13...	7.0	.3	1.3	.09	743	.80	1.01	450	140	1.8	1070	8.0
21...	6.8	.2	1.1	.01	717	.76	.98	450	140	1.8	1070	8.1
27...	7.3	.2	.93	.01	726	.69	.99	440	140	1.8	1070	8.0
JULY												
03...	6.7	.2	1.3	.00	744	.58	1.01	500	170	1.6	1100	7.9
12...	6.4	.2	1.1	.01	741	.48	1.01	480	160	1.6	1090	8.0
20...	8.3	.2	.90	.01	755	.35	1.03	500	180	1.6	1080	7.8
AUG.												
02...	8.0	.2	1.1	.00	762	.84	1.04	470	140	1.7	1100	7.9
10...	8.2	.2	1.3	.01	758	.57	1.03	450	120	1.8	1110	8.0
31...	9.4	.2	.83	.02	744	.64	1.01	440	130	1.8	1100	8.3
SEP.												
13...	9.5	.2	.78	.04	729	.57	.99	440	120	1.7	1100	8.0
26...	8.1	.3	.72	.01	735	.58	1.00	450	150	1.8	1090	8.3

09306235 CORRAL GULCH BELOW WATER GULCH, NEAR RANGELY, COLO.--Continued

WATER QUALITY DATA, MARCH TO SEPTEMBER 1974

DATE	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED LITHIUM (LI) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
MAR., 1974												
14...	4.5	9.2	--	--	--	--	--	--	--	--	--	--
25...	9.0	8.5	--	--	--	--	--	--	--	--	--	--
APR.												
04...	.5	--	1	--	--	1	--	--	--	.0	--	--
19...	8.0	9.8	23	--	--	3	--	--	--	--	4	--
27...	7.5	9.4	--	--	--	--	--	--	--	--	--	--
MAY												
03...	18.0	6.6	--	--	--	--	--	--	--	--	--	--
17...	10.5	6.6	9	120	80	2	5	<14	14	--	7	340
24...	14.0	8.4	2	0	90	1	3	2	20	.0	4	10
30...	22.5	7.0	4	200	110	1	4	2	20	.0	8	20
JUNE												
13...	21.0	7.4	5	200	100	2	10	15	20	.0	4	30
21...	24.0	8.6	4	0	100	1	2	5	20	.0	7	10
27...	27.5	7.5	4	<100	40	2	6	4	20	.1	5	0
JULY												
03...	11.0	11.7	8	<100	100	0	2	3	0	.1	5	0
12...	20.0	8.6	5	<100	120	3	6	7	0	.0	5	20
20...	13.0	10.2	3	0	80	2	14	7	10	.0	1	10
AUG.												
02...	13.0	9.6	4	0	100	<1	4	3	0	.0	4	10
10...	18.0	7.8	4	0	100	<1	7	3	0	.0	2	10
31...	17.5	10.6	2	0	110	<1	3	4	0	.0	4	10
SEP.												
13...	10.0	9.8	4	0	100	1	5	2	10	.5	2	10
26...	11.0	7.2	5	0	30	5	13	3	0	.0	4	0

DATE	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED BERYLLIUM (BE) (UG/L)	DISSOLVED BISMUTH (BI) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED GALLIUM (GA) (UG/L)	DISSOLVED GERMANIUM (GE) (UG/L)	DISSOLVED MOLYBDENUM (MO) (UG/L)
MAY , 1974								
17...	220	<5	<10	<7	<14	<7	<14	40

DATE	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED SILVER (AG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED TIN (SN) (UG/L)	DISSOLVED TITANIUM (TI) (UG/L)	DISSOLVED VANADIUM (V) (UG/L)	DISSOLVED ZIRCONIUM (ZR) (UG/L)
MAY , 1974							
17...	<7	<2	1500	<10	9	<10	<20

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DISCHARGE (CFS)	TEMPERATURE (DEG C)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAR., 1974				
13...	.14	12.5	388	.15
25...	.07	9.0	114	.02
APR.				
04...	.29	.5	1600	1.3
19...	.17	8.0	68	.03
27...	.44	7.5	2080	2.5
MAY				
03...	.50	18.0	2980	4.0
17...	.74	10.5	2190	4.4
24...	.63	14.0	537	.91
30...	.54	22.5	98	.14
JUNE				
13...	.40	21.0	0	.00
21...	.39	24.0	3	.00
JULY				
03...	.29	11.0	79	.06
12...	.24	20.0	30	.02
20...	.05	13.0	158	.02

09306237 DRY FORK NEAR RANGELY, COLO.

LOCATION.--Lat 39°55'20", long 108°31'55", in SE¼NE¼ sec.32, T.1 S., R.99 W., Rio Blanco County, at gaging station, on left bank 1.7 mi (2.7 km) upstream from mouth and 18 mi (29 km) southeast of Rangely.

DRAINAGE AREA.--2.74 mi² (7.10 km²).

PERIOD OF RECORD.--Chemical analyses: April to September 1974.

REMARKS.--No flow during sample-collection visits for period of record.

09306240 BOX ELDER GULCH NEAR RANGELY, COLO.

LOCATION.--Lat 39°53'18", long 108°31'40", in NE¼SW¼ sec.8, T.2 S., R.99 W., Rio Blanco County, at gaging station, 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).

PERIOD OF RECORD.--Chemical analyses: April to September 1974.

WATER QUALITY DATA, APRIL TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
APR., 1974												
27...	2.6	23	500	20	86	48	52	1.1	386	0	317	170
MAY												
03...	2.3	24	120	0	73	49	66	1.1	372	0	305	170
17...	2.5	23	30	0	76	45	48	.7	355	0	291	150
24...	1.4	23	20	0	83	61	93	1.4	453	0	372	280
30...	.70	24	10	0	58	45	53	1.0	309	0	253	160

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
APR., 1974												
27...	5.2	.7	1.5	.02	584	4.10	.79	410	96	1.1	898	7.9
MAY												
03...	6.4	.3	1.4	.00	580	3.60	.79	380	79	1.5	865	8.1
17...	5.2	.5	1.4	.02	530	3.58	.72	380	84	1.1	822	8.0
24...	8.2	.4	.75	.03	777	2.94	1.06	460	87	1.9	1160	7.9
30...	5.5	.4	1.0	.02	504	.95	.69	330	77	1.3	772	8.2

DATE	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/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 COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
APR., 1974												
27...	10.0	9.0	--	--	--	--	--	--	--	--	--	--
MAY												
03...	18.0	7.6	--	--	--	--	--	--	--	--	--	--
17...	12.5	7.0	15	93	70	1	3	<10	10	--	6	65
24...	16.0	9.8	3	0	110	1	22	1	20	.0	4	10
30...	25.0	7.0	7	200	80	2	7	11	10	.2	4	20

09306240 BOX ELDER GULCH NEAR RANGELY, COLO.--Continued

WATER QUALITY DATA, APRIL TO SEPTEMBER 1974

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)
MAY , 1974								
17...	70	<4	<8	<5	<10	<5	<10	35

DATE	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
MAY , 1974							
17...	<5	<1	1000	<8	<5	<5.0	<16

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
APR., 1974				
27...	2.6	10.0	1080	7.6
MAY				
03...	2.3	18.0	628	3.9
17...	2.5	12.5	324	2.2
24...	1.3	16.0	127	.46
30...	.70	25.0	57	.11

09306241 BOX ELDER GULCH TRIBUTARY NEAR RANGELY, COLO.

LOCATION.--Lat 39°54'50", long 108°29'06", in SE¼SE¼ sec.34, T.1 S., R.99 W., Rio Blanco County, at gaging station, on right bank 880 ft (270 m) above mouth, 3.5 mi (5.6 km) west of 84 Ranch, and 20.5 mi (33.0 km) southeast of Rangely.

DRAINAGE AREA.--3.5 mi^2 (9.0 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: April to September 1974.

REMARKS.--No flow during sample-collection visits for period of record.

09306242 CORRAL GULCH NEAR RANGELY, COLO.

LOCATION.--Lat 39°55'13", long 108°28'20", in SE¼NW¼ sec.25, T.1 S., R.99 W., Rio Blanco County, at gaging station, on left bank 5 ft (2 m) downstream from Box Elder 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).

PERIOD OF RECORD.--Chemical analyses: March to September 1974.

WATER QUALITY DATA, MARCH TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
MAR.. 1974												
14...	.52	19	60	30	93	70	110	1.8	504	0	413	340
25...	.20	20	90	20	91	67	110	1.7	505	0	414	320
APR.												
04...	.27	20	40	38	92	69	110	1.4	504	0	413	320
19...	.27	23	30	10	93	67	110	1.4	514	0	422	360
27...	1.1	23	130	0	110	57	74	1.8	446	0	366	270
MAY												
03...	1.3	23	40	0	83	57	87	1.7	440	0	361	250
17...	2.0	22	70	0	79	57	80	1.3	419	0	344	230
24...	.91	24	30	0	68	45	51	.7	327	0	268	160
30...	1.0	23	40	0	82	63	97	1.5	464	0	381	280
JUNE												
13...	.89	22	20	20	86	63	110	1.9	476	0	390	290
21...	.96	21	40	0	88	63	100	1.5	465	0	381	270
27...	.84	22	10	0	88	64	100	1.4	471	0	386	310
JULY												
03...	1.1	17	30	0	84	63	100	1.4	465	0	381	290
12...	1.0	22	40	40	82	58	110	1.7	477	0	391	280
20...	1.2	18	40	20	75	55	180	1.9	688	0	564	250
AUG.												
02...	.81	22	190	30	86	61	110	1.6	478	0	392	300
10...	.80	23	50	30	88	59	100	1.6	484	0	397	280
31...	.69	23	240	10	84	64	100	2.4	492	--	404	260
SEP.												
13...	.47	22	50	40	90	68	110	3.0	493	--	404	290
26...	.58	21	60	10	71	55	230	2.9	764	--	627	240

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
MAR.. 1974												
14...	9.2	.5	.17	.05	893	1.25	1.21	520	110	2.1	1280	8.0
25...	8.6	.6	.18	.04	869	.47	1.18	500	89	2.1	1280	7.7
APR.												
04...	8.7	.5	.18	.03	871	.63	1.18	510	100	2.1	1290	7.9
19...	8.4	1.1	.21	.04	918	.67	1.25	510	86	2.1	1280	7.9
27...	5.9	.4	2.0	.03	771	2.44	1.05	510	140	1.4	1120	8.0
MAY												
03...	8.0	.4	.91	.03	731	2.68	.99	440	81	1.8	1090	8.0
17...	6.6	.4	.97	.03	687	3.82	.93	430	88	1.7	1050	8.0
24...	6.0	.4	1.3	.03	522	1.28	.71	360	87	1.2	797	8.0
30...	7.7	.4	.52	.03	786	2.12	1.07	460	84	2.0	1170	7.8
JUNE												
13...	9.0	.4	.46	.13	820	1.97	1.12	470	84	2.2	1200	7.8
21...	8.0	.3	.35	.02	783	2.03	1.06	480	98	2.0	1180	7.9
27...	8.9	.4	.29	.03	829	1.88	1.13	480	97	2.0	1210	7.8
JULY												
03...	7.8	.2	.39	.00	795	2.49	1.08	470	88	2.0	1180	8.0
12...	11	.3	.33	.01	802	2.23	1.09	440	52	2.3	1200	7.7
20...	13	2.5	.31	.01	937	3.09	1.27	410	0	3.9	1430	7.8
AUG.												
02...	9.2	.3	1.1	.01	831	1.82	1.13	470	74	2.2	1220	8.0
10...	10	.3	1.5	.01	807	1.74	1.10	460	66	2.0	1240	7.8
31...	10	.3	.87	.03	791	1.47	1.08	470	70	2.0	1240	7.7
SEP.												
13...	11	.3	.65	.05	841	1.07	1.14	500	100	2.1	1250	7.5
26...	19	3.1	.55	.01	1020	1.60	1.39	400	0	5.0	1590	8.0

09306242 CORRAL GULCH NEAR RANGELY, COLO.--Continued

WATER QUALITY DATA, MARCH TO SEPTEMBER 1974

DATE	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED LITHIUM (LI) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
MAR., 1974												
14...	13.0	--	--	--	--	--	--	--	--	--	--	--
25...	9.5	10.2	--	--	--	--	--	--	--	--	--	--
APR.												
04...	8.5	--	2	--	--	1	--	--	--	.2	--	--
19...	9.0	8.4	5	--	--	2	--	--	--	.0	2	--
27...	14.0	7.0	--	--	--	--	--	--	--	--	--	--
MAY												
03...	17.0	7.2	--	--	--	--	--	--	--	--	--	--
17...	14.5	6.8	14	120	90	2	<3	<13	9	--	7	77
24...	12.5	6.6	4	0	80	1	13	2	20	.0	3	10
30...	14.0	6.0	5	100	120	1	2	8	10	.0	4	10
JUNE												
13...	21.0	6.2	6	0	110	2	10	16	20	.0	8	40
21...	16.0	8.0	6	0	110	1	2	18	20	.0	4	10
27...	13.0	7.9	3	<100	100	1	1	3	20	.0	3	30
JULY												
03...	12.0	9.0	6	<100	120	0	2	2	0	.0	4	0
12...	15.0	7.0	7	<100	120	0	1	3	0	.0	2	20
20...	15.0	6.0	5	0	540	1	6	2	10	.0	2	50
AUG.												
02...	11.0	8.4	5	0	120	1	3	3	0	.0	3	20
10...	10.0	7.4	4	0	130	<1	3	2	0	.0	6	20
31...	12.0	8.8	4	0	130	<1	2	4	0	1.3	4	50
SEP.												
13...	11.0	10.0	4	0	100	1	3	0	0	.1	3	10
26...	15.0	6.9	8	0	670	1	4	2	40	.1	3	20

DATE	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED BERYLLIUM (BE) (UG/L)	DISSOLVED BISMUTH (BI) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED GALLIUM (GA) (UG/L)	DISSOLVED GERMANIUM (GE) (UG/L)	DISSOLVED MOLYBDENUM (MO) (UG/L)
MAY , 1974								
17...	60	<5	<9	<6	<13	<6	<13	35

DATE	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED SILVER (AG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED TIN (SN) (UG/L)	DISSOLVED TITANIUM (TI) (UG/L)	DISSOLVED VANADIUM (V) (UG/L)	DISSOLVED ZIRCONIUM (ZR) (UG/L)
MAY , 1974							
17...	<6	<2	1300	<9	<6	<6.0	<20

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DISCHARGE (CFS)	TEMPERATURE (DEG C)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAR., 1974				
14...	.41	3.0	215	.24
25...	.20	13.0	116	.06
APR.				
04...	.33	10.0	96	.08
19...	.27	9.0	72	.05
27...	1.1	14.0	902	2.8
MAY				
03...	1.3	17.0	2290	8.4
17...	2.0	14.5	2420	13
30...	1.0	14.0	221	.60
JUNE				
13...	.89	21.0	105	.25
21...	1.0	16.0	21	.06
21...	.96	16.0	64	.16
JULY				
03...	1.1	12.0	109	.34
12...	1.0	15.0	140	.39
20...	1.2	15.0	506	1.6
AUG.				
02...	.81	11.0	45	.10
31...	.69	12.0	108	.20
SEP.				
13...	.47	11.0	38	.05
26...	.58	15.0	213	.33

09306255 YELLOW CREEK NEAR WHITE RIVER, COLO.

LOCATION.--Lat 40°10'07", long 108°24'02", in NE¼SW¼ sec.4, T.2 N., R.98 W., Rio Blanco County, at gaging station 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).

PERIOD OF RECORD.--Chemical analyses: May 1974 to September 1974.
Sediment records: April 1973 to September 1974.

EXTREMES, 1973-74.--Sediment concentrations: Maximum daily, 3,770 mg/l Apr. 15; minimum daily, 6 mg/l June 4.
Sediment loads: Maximum daily, 49 tons (44 t) Apr. 14; minimum daily, 0.04 tons (0.04 t) June 4.

WATER QUALITY DATA, MAY TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
MAY , 1974												
03...	3.0	13	50	10	38	140	710	3.9	1300	144	1310	750
14...	3.0	9.1	20	30	15	140	750	3.9	1470	88	1350	740
30...	2.4	6.9	20	0	22	130	760	3.9	1460	104	1370	670
JUNE												
21...	1.8	8.7	50	0	31	110	790	4.2	1380	191	1450	520
27...	2.0	9.2	40	0	24	110	790	4.0	--	--	--	570
JULY												
03...	1.8	7.6	40	0	26	120	800	4.8	1620	71	1450	590
12...	2.1	7.3	400	30	27	110	770	3.9	1700	67	1510	560
17...	2.8	13	40	250	130	50	500	6.2	1090	0	894	400
AUG.												
15...	1.8	9.8	20	0	23	96	740	6.0	1300	145	1310	490
SEP.												
23...	1.7	8.1	50	0	17	92	630	4.2	843	313	1210	440

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO, PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
MAY , 1974												
03...	110	--	.42	.03	2550	20.7	3.47	670	0	12	3600	8.4
14...	120	2.4	.04	.02	2590	21.0	3.52	610	0	13	3640	8.6
30...	130	1.9	.07	.03	2550	16.5	3.47	590	0	14	3600	8.8
JUNE												
21...	130	2.6	.10	1.8	2480	12.1	3.37	530	0	15	3724	8.6
27...	120	2.3	.14	.01	--	--	--	510	--	15	3620	8.8
JULY												
03...	130	2.0	.13	.00	2550	12.4	3.47	560	0	15	3680	8.7
12...	130	2.4	.33	.02	2520	14.3	3.43	520	0	15	3680	8.5
17...	93	1.3	1.5	.05	1740	13.2	2.37	530	0	9.4	2410	8.0
AUG.												
15...	130	1.7	.91	.01	2290	11.1	3.11	450	0	15	3330	8.2
SEP.												
23...	100	2.0	.89	.01	2030	9.32	2.76	420	0	13	3130	8.7

DATE	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/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 COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
MAY , 1974												
03...	12.0	7.2	--	--	--	--	--	--	--	--	--	--
14...	21.5	6.9	2	--	--	--	--	--	--	.0	0	--
30...	26.0	10.3	--	--	--	--	--	--	--	--	--	--
JUNE												
21...	17.0	11.2	7	300	730	1	9	13	180	.0	2	10
27...	21.5	9.8	2	100	410	1	2	3	180	.0	2	20
JULY												
03...	17.0	8.4	9	<100	750	1	5	4	150	.0	1	20
12...	12.0	11.2	5	<100	720	1	2	5	150	.0	1	10
17...	21.5	8.1	6	400	500	1	3	3	80	.0	2	10
AUG.												
15...	19.0	9.4	4	100	660	<1	3	2	120	.0	3	0
SEP.												
23...	21.5	8.6	6	200	550	<1	8	1	130	.0	3	0

09306255 YELLOW CREEK NEAR WHITE RIVER, COLO.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3.5	--	--	2.8	247	1.9	2.7	16	.12
2	4.2	--	--	2.8	247	1.9	2.7	49	.36
3	4.0	--	--	2.8	234	1.8	2.6	12	.08
4	3.7	--	--	2.7	234	1.7	2.4	6	.04
5	3.5	--	--	2.7	234	1.7	2.7	104	.76
6	3.7	--	--	2.7	221	1.6	3.0	247	2.0
7	3.7	--	--	2.6	208	1.5	3.3	234	2.1
8	3.5	--	--	2.6	208	1.5	5.3	--	--
9	3.7	507	5.1	2.8	195	1.5	3.5	373	3.5
10	3.7	2000	20	2.8	195	1.5	2.8	202	1.5
11	4.0	2290	25	2.8	208	1.6	2.4	91	.59
12	4.2	2080	24	2.7	221	1.6	2.1	126	.71
13	4.6	2470	31	3.0	221	1.8	2.1	101	.57
14	5.3	3440	49	3.0	211	1.7	2.1	68	.39
15	3.2	3770	33	3.0	157	1.3	2.0	70	.38
16	2.8	2990	23	2.8	270	2.0	2.0	95	.51
17	2.6	2470	17	2.8	317	2.4	2.1	51	.29
18	2.7	2140	16	2.8	280	2.1	2.1	53	.30
19	2.7	1880	14	2.8	179	1.4	2.1	48	.27
20	3.2	1760	15	2.8	156	1.2	2.0	99	.53
21	3.2	1560	13	3.0	234	1.9	1.8	29	.14
22	3.0	1240	10	2.8	309	2.3	1.8	73	.35
23	3.0	975	7.9	2.8	190	1.4	1.5	91	.37
24	2.8	754	5.7	2.8	70	.53	1.5	91	.37
25	2.8	559	4.2	2.8	16	.12	1.5	104	.42
26	2.8	403	3.0	2.7	53	.39	1.5	91	.37
27	3.0	286	2.3	2.7	29	.21	1.5	90	.36
28	2.8	260	2.0	2.7	16	.12	1.4	117	.44
29	2.8	260	2.0	2.6	13	.09	1.4	117	.44
30	2.8	247	1.9	2.4	39	.25	1.5	91	.37
31	--	--	--	2.6	42	.29	--	--	--

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.7	91	.42	1.7	195	.90	1.8	143	.69
2	1.8	104	.51	1.7	182	.84	1.7	143	.66
3	1.8	84	.41	1.7	182	.84	1.7	130	.60
4	1.8	104	.51	1.7	156	.72	1.7	143	.66
5	2.0	104	.56	1.7	156	.72	1.8	143	.69
6	2.0	104	.56	1.5	143	.58	1.8	143	.69
7	2.0	104	.56	1.4	130	.49	1.8	143	.69
8	2.1	104	.59	1.5	130	.53	2.0	156	.84
9	2.0	104	.56	1.7	117	.54	2.0	143	.77
10	1.8	104	.51	1.8	117	.57	2.0	130	.70
11	2.0	117	.63	1.7	104	.48	2.0	130	.70
12	2.1	114	.65	1.7	104	.48	2.0	130	.70
13	2.0	159	.86	1.5	104	.42	1.8	130	.63
14	2.1	169	.96	1.5	104	.42	1.6	130	.56
15	2.4	169	1.1	1.5	104	.42	1.8	130	.63
16	4.8	--	--	1.5	117	.47	2.1	130	.74
17	11	--	--	1.5	104	.42	1.8	130	.63
18	4.8	--	--	1.5	117	.47	1.5	130	.53
19	2.0	247	1.3	1.7	130	.60	1.5	117	.47
20	1.8	234	1.1	1.7	130	.60	1.5	117	.47
21	1.7	208	.95	1.5	130	.53	1.6	104	.45
22	1.7	221	1.0	1.5	130	.53	1.6	104	.45
23	5.1	--	--	1.5	117	.47	1.6	117	.51
24	3.2	351	3.0	1.5	130	.53	1.6	104	.45
25	2.0	273	1.5	1.5	130	.53	1.6	104	.45
26	1.8	247	1.2	1.5	130	.53	1.6	104	.45
27	1.8	247	1.2	1.5	130	.53	1.6	104	.45
28	1.8	234	1.1	1.5	117	.47	1.6	104	.45
29	1.7	221	1.0	1.5	130	.53	1.6	104	.45
30	1.7	221	1.0	1.5	130	.53	1.6	104	.45
31	1.7	208	.95	1.7	130	.60	--	--	--

09306500 WHITE RIVER NEAR WATSON, UTAH

LOCATION.--Lat 39°58'46", long 109°10'41", in SE¼SW¼NE¼ sec.2, T.10 S., R.24 E., Uintah County, at bridge on State Highway 45, 350 ft (110 m) upstream from gaging station, about 1 mi (2 km) downstream from Evacuation Creek, and 7 mi (11 km) north of Watson.

DRAINAGE AREA.--4,020 mi² (10,400 km²), approximately (at gaging station).

PERIOD OF RECORD.--Chemical analyses: December 1950 to September 1974.
Water temperatures: December 1950 to September 1974.

EXTREMES, 1973-74.
Period of record.--Specific conductance (1950-72): Maximum daily, 4,450 micromhos Aug. 4, 1955; minimum daily, 295 micromhos June 26, 1971.
Water temperatures (1950-72): Maximum, 31°C Aug. 8, 1954; minimum, freezing point on many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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.. 1973												
05...	487	13	67	27	64	2.0	234	0	192	180	32	.2
NOV.												
07...	486	14	70	26	70	1.9	250	3	210	160	39	.2
DEC.												
07...	355	16	83	31	83	2.3	283	0	232	200	46	.3
JAN..												
16...	530	15	68	23	57	2.2	227	0	186	150	36	.2
FEB.												
26...	575	16	72	27	70	2.0	264	0	217	190	43	.3
MAR.												
15...	1190	9.8	67	28	100	4.2	218	0	179	270	38	.7
APR.												
17...	713	11	61	25	140	3.5	224	0	184	320	34	.5
JUNE												
19...	1930	13	39	12	22	1.5	146	--	120	59	10	.2
JULY												
18...	467	14	68	23	55	2.4	230	--	189	140	30	.3
AUG.												
06...	382	15	70	32	74	2.5	241	--	198	200	35	.3
27...	275	12	60	34	90	2.8	234	0	192	210	42	.4
SEP.												
17...	390	14	74	30	85	3.1	262	0	215	200	53	.4

DATE	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA.MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	DIS-SOLVED BORON (B) (UG/L)
OCT.. 1973												
05...	.01	.06	501	659	280	87	1.7	765	8.2	11.0	8.0	50
NOV.												
07...	.04	.10	508	667	280	72	1.8	834	8.4	3.0	--	80
DEC.												
07...	.08	.04	602	577	340	100	2.0	951	8.3	.0	9.2	90
JAN.. 1974												
16...	.49	.01	466	667	260	78	1.5	755	8.0	.0	--	60
FEB.												
26...	.12	.03	551	855	290	74	1.8	870	8.0	.0	--	90
MAR.												
15...	.04	.08	626	2010	280	100	2.6	970	7.5	10.0	--	120
APR.												
17...	.28	.03	707	1360	260	72	3.8	1050	8.0	11.0	--	150
JUNE												
19...	.05	.03	229	1190	150	27	.8	382	7.6	20.0	7.7	60
JULY												
18...	.49	.84	451	569	260	76	1.5	700	7.5	24.0	9.2	90
AUG.												
06...	.24	.03	549	566	310	110	1.8	800	8.1	26.0	7.7	100
27...	.04	.00	567	435	290	98	2.3	900	8.1	19.0	7.0	90
SEP.												
17...	.00	.00	590	--	310	95	2.1	740	8.2	15.0	--	100

09306500 WHITE RIVER NEAR WATSON, UTAH--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	830	823	860	890	848	908	1020	600	---	531	---	---
2	830	830	860	890	850	---	---	---	---	---	862	---
3	835	830	870	1180	---	985	990	587	---	573	---	1030
4	824	808	900	1650	828	1410	---	---	---	---	---	---
5	809	805	900	990	---	852	1060	---	359	630	861	1080
6	805	792	920	---	---	1090	---	525	---	---	---	---
7	796	830	980	970	845	---	1140	---	409	---	751	---
8	806	846	---	1080	988	980	1120	461	---	620	---	---
9	806	---	---	1090	---	---	---	---	---	---	840	960
10	928	848	1000	940	---	880	1100	427	545	591	---	1020
11	836	848	890	880	979	928	---	---	---	---	---	1320
12	---	830	850	850	945	912	1260	365	510	654	854	---
13	---	857	870	860	965	950	---	348	344	---	---	1030
14	---	838	880	860	---	---	990	---	487	---	840	---
15	---	828	---	---	949	940	1060	360	---	740	840	---
16	802	892	840	840	850	---	---	---	---	---	852	1020
17	813	792	800	---	---	975	1090	385	404	791	---	---
18	803	860	810	810	858	1750	---	---	512	700	---	860
19	808	855	840	---	822	1010	1090	---	391	1120	851	---
20	788	908	830	820	840	1030	---	344	---	---	---	860
21	856	840	810	800	---	---	1030	---	382	---	854	---
22	840	---	---	---	795	1030	965	341	---	1020	---	---
23	820	860	870	810	---	---	---	---	---	---	863	880
24	827	---	880	---	---	1040	1000	405	409	---	---	---
25	820	---	880	810	990	1050	---	---	---	804	---	810
26	820	832	880	---	840	1050	860	---	451	---	910	---
27	---	900	870	---	992	1040	---	---	---	---	---	880
28	---	855	880	880	---	---	640	381	---	---	893	---
29	832	799	960	---	---	965	582	---	---	832	---	---
30	828	892	850	1950	---	---	---	---	---	---	983	---
31	827	---	890	---	---	960	---	332	---	840	---	---

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.0	5.5	0.5	0.0	0.0	0.0	5.5	9.5	---	19.5	---	---
2	11.5	4.5	0.5	0.0	0.0	---	---	---	---	---	20.0	---
3	10.5	3.0	0.0	0.0	---	0.5	3.0	10.0	---	18.5	---	14.5
4	10.0	0.0	0.5	0.0	0.0	0.0	---	---	---	---	---	---
5	9.5	1.0	0.5	0.0	---	1.0	4.0	---	13.5	20.0	20.0	16.0
6	10.5	1.0	0.5	---	---	0.0	---	10.0	---	---	---	---
7	11.0	4.0	0.5	0.0	0.0	---	4.0	---	10.5	---	21.0	---
8	10.0	2.0	---	0.0	0.0	0.0	5.5	11.0	---	19.0	---	---
9	10.0	---	---	0.0	---	---	---	---	---	---	17.5	17.0
10	7.5	2.5	0.5	0.0	---	0.0	6.0	12.5	10.0	18.5	---	28.5
11	6.5	4.5	0.5	0.0	0.0	0.0	---	---	---	---	---	17.0
12	---	4.5	0.0	0.0	---	0.0	5.5	10.0	14.5	18.5	17.5	---
13	---	4.5	0.0	0.0	0.0	0.0	---	11.0	13.5	---	---	11.0
14	---	4.5	0.0	0.0	---	---	2.5	---	16.5	---	17.5	---
15	---	2.5	---	---	0.0	0.5	5.5	10.0	---	21.0	---	---
16	9.5	1.5	0.0	0.0	0.0	---	---	---	---	---	17.5	13.5
17	9.5	1.0	0.0	---	---	0.5	7.5	11.0	16.0	20.0	---	---
18	9.5	1.0	0.0	0.0	0.0	0.5	---	---	19.0	24.0	---	14.5
19	9.5	1.5	0.0	---	---	---	9.0	---	17.0	18.5	20.0	---
20	9.0	1.0	0.0	0.0	0.0	1.5	---	10.0	---	---	---	14.0
21	8.5	1.0	0.0	0.0	---	---	6.5	---	15.5	---	16.5	---
22	9.5	---	---	---	0.0	3.5	9.0	9.0	---	20.0	---	---
23	9.0	0.0	0.0	0.0	---	---	---	---	---	---	16.0	14.0
24	6.5	---	0.0	---	---	2.0	10.0	10.0	18.5	---	---	---
25	6.0	---	0.0	0.0	0.0	3.5	---	---	---	20.0	---	14.0
26	6.0	0.0	0.0	---	0.0	6.0	10.0	---	19.0	---	17.5	---
27	---	0.5	0.0	---	0.0	5.5	---	---	---	---	---	13.0
28	---	0.0	0.0	0.0	---	---	9.0	13.5	---	---	17.5	---
29	5.0	0.0	0.0	---	---	4.5	9.0	---	---	21.0	---	---
30	4.5	0.0	0.0	0.0	---	---	---	---	---	---	17.5	---
31	4.5	---	0.0	---	---	6.5	---	12.0	---	21.0	---	---

09341200 WOLF CREEK NEAR PAGOSA SPRINGS, COLO.

LOCATION.--Lat 37°26'47", long 106°53'00", Mineral County, at gaging station, on right bank 0.3 mi (0.5 km) upstream from Fall Creek and 14 mi (23 km) northeast of Pagosa Springs.

DRAINAGE AREA.--14.0 mi^2 (36.3 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1974.

REMARKS.--Silver sample analyses performed by Bureau of Reclamation.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
MAR., 1974												
26...	9.6	17	70	0	6.9	.9	3.9	1.4	27	0	22	6.9
APR.												
08...	8.1	17	60	0	6.7	.8	4.0	.9	26	0	21	6.0
MAY												
07...	64	13	90	0	4.6	.4	2.2	.9	17	0	14	4.6
21...	76	15	40	0	4.3	.3	1.7	1.2	17	--	14	3.5
JUNE												
04...	72	15	40	0	4.2	.5	2.4	1.3	17	--	14	4.1
17...	51	10	270	0	4.2	.3	2.1	1.2	16	--	13	3.1
JULY												
08...	11	17	30	0	5.0	.9	2.8	1.2	25	--	21	6.4
AUG.												
06...	18	15	30	10	4.9	.3	2.1	1.0	22	--	18	4.6
SEP.												
04...	5.0	17	40	0	6.0	1.1	3.4	1.2	27	0	22	4.4

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
MAR., 1974												
26...	2.2	.2	.07	.03	53	21	0	.4	64	7.6	4.0	10.0
APR.												
08...	1.4	.1	.03	.04	50	20	0	.4	64	7.5	1.0	9.4
MAY												
07...	.1	.4	.08	.02	35	13	0	.3	36	7.5	3.0	10.6
21...	.2	.0	.06	.03	35	12	0	.2	34	8.2	9.0	9.8
JUNE												
04...	.5	1.2	.05	.02	38	13	0	.3	32	8.0	4.0	10.8
17...	.5	.1	.00	.02	30	12	0	.3	30	8.3	11.0	9.8
JULY												
08...	.0	.1	.01	.01	46	16	0	.3	42	7.3	17.0	9.7
AUG.												
06...	.8	.1	.03	.01	40	13	0	.2	40	8.2	9.0	9.6
SEP.												
04...	.1	.0	.03	.02	47	20	0	.3	52	8.6	5.0	9.7

09341200 WOLF CREEK NEAR PAGOSA SPRINGS, COLO.--Continued

SILVER ANALYSES, MARCH 1974 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	TOTAL SILVER (AG) (UG/L)
MAR.		
26...	9.6	<0.03
APR.		
08...	8.1	.03
MAY		
07...	64	< .03
21...	76	.04
JUNE		
04...	72	< .03
17...	51	.13
JULY		
08...	11	.03
AUG.		
06...	18	< .03
SEP.		
04...	5.0	.12

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER L974

DATE	DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
MAR.: 1974				
26...	9.6	4.0	8	.21
APR.				
08...	8.1	1.0	8	.17
MAY				
07...	64	3.0	8	1.4
21...	76	9.0	9	1.8
JUNE				
04...	72	4.0	6	1.2
17...	51	11.0	6	.83
JULY				
08...	11	17.0	4	.12
AUG.				
06...	18	9.0	4	.19
SEP.				
04...	5.0	5.0	1	.01

09347200 MIDDLE FORK PIEDRA RIVER NEAR PAGOSA SPRINGS, COLO.

LOCATION.--Lat 37°29'12", long 107°09'46", in SW¼NW¼ sec.35, T.38 N., R.3 W., Hinsdale County, at gaging station, on right bank 0.6 mi (1.0 km) upstream from headgate on Toner-Taylor ditch, 4.1 mi (6.6 km) northeast of Piedra guard station, and 17 mi (27 km) northwest of Pagosa Springs.

DRAINAGE AREA.--32.2 mi^2 (83.4 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1974.

REMARKS.--Silver sample analyses performed by Bureau of Reclamation.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
MAR., 1974												
27...	21	20	60	0	7.0	1.2	4.5	1.5	31	0	25	6.3
APR.												
08...	14	20	60	0	7.2	1.4	5.2	1.2	34	0	28	7.3
MAY												
07...	54	18	230	0	5.7	1.0	4.3	1.5	26	0	21	7.0
22...	62	17	50	0	4.8	.7	2.9	1.2	22	--	18	4.6
JUNE												
04...	62	16	50	0	6.0	.8	3.0	1.2	20	1	18	4.8
18...	45	.1	50	0	5.3	.6	3.3	1.3	23	--	19	4.3
JULY												
09...	12	20	40	0	6.8	1.7	3.8	1.3	32	--	26	5.9
31...	14	21	40	0	6.5	1.2	3.7	1.5	32	--	26	6.5
SEP.												
04...	6.2	22	80	10	8.0	2.0	3.8	1.7	39	--	32	5.5

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
MAR., 1974												
27...	1.6	.1	.06	.04	58	22	0	.4	69	7.5	3.0	10.2
APR.												
08...	1.4	.1	.05	.05	61	24	0	.5	75	7.5	1.0	9.8
MAY												
07...	1.5	.4	.05	.03	53	18	0	.4	56	8.0	9.0	9.8
22...	.5	.0	.01	.04	43	15	0	.3	45	8.3	8.0	9.8
JUNE												
04...	2.2	1.3	.01	.03	46	18	0	.3	44	8.4	11.0	9.8
18...	.6	.2	.00	.00	27	16	0	.4	44	7.6	12.0	9.8
JULY												
09...	.0	.1	.00	.03	56	24	0	.3	62	7.4	12.0	10.0
31...	.6	.1	.01	.05	57	21	0	.4	65	8.1	14.0	7.9
SEP.												
04...	.3	.1	.06	.05	63	28	0	.3	71	8.1	16.0	9.2

09347200 MIDDLE FORK PIEDRA RIVER NEAR PAGOSA SPRINGS, COLO.--Continued

SILVER ANALYSES, MARCH 1974 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	TOTAL SILVER (AG) (UG/L)
MAR.		
27...	21	0.05
APR.		
08...	14	.04
MAY		
07...	54	< .03
22...	62	< .03
JUNE		
04...	62	.06
18...	45	.14
JULY		
09...	12	.03
31...	14	.03
SEP.		
04...	6.2	.09

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTDBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
MAR., 1974				
27...	21	3.0	6	.34
APR.				
08...	14	1.0	4	.15
MAY				
07...	54	9.0	4	.58
22...	62	8.0	3	.50
JUNE				
04...	62	11.0	4	.67
18...	45	12.0	4	.49
JULY				
09...	12	12.0	3	.10
31...	14	14.0	3	.11
SEP.				
04...	6.2	16.0	0	.00

09352900 VALLECITO CREEK NEAR BAYFIELD, COLO.
(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, at gaging station, 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 mi^2 (186.7 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1963 to September 1968, August 1970 to September 1974. Water temperatures: November 1962 to September 1974.

EXTREMES, 1973-74.--Water temperatures: Maximum, 20°C July 10; minimum, freezing point on many days during December to February.
Period of record.--Water temperatures: Maximum, 20°C July 10, 1974; minimum, freezing point on many days during winter months.

REMARKS.--Silver sample analyses performed by Bureau of Reclamation.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT., 1973										
04...	38	4.0	340	0	11	1.9	1.1	1.0	35	0
NOV.										
01...	22	4.2	0	0	11	2.2	1.3	1.1	38	0
27...	16	4.5	10	10	13	2.6	1.4	1.1	46	0
JAN., 1974										
02...	15	4.5	20	0	12	2.4	2.1	.6	40	0
FEB.										
05...	14	4.4	10	0	13	2.4	2.9	1.0	40	0
MAR.										
13...	16	4.3	10	0	12	2.1	1.2	1.1	37	0
25...	37	4.2	20	50	9.3	1.8	1.0	1.0	29	0
APR.										
09...	48	4.2	10	0	12	1.8	1.4	.9	32	0
MAY										
01...	127	4.1	80	0	9.8	1.9	1.1	1.1	29	0
13...	386	3.3	60	30	7.6	1.6	.7	1.0	24	0
JUNE										
03...	192	24	80	30	7.8	1.6	.7	.9	23	--
11...	220	2.6	20	20	5.3	1.1	.7	.8	17	--
JULY										
01...	107	2.7	20	0	6.0	1.1	.2	.7	18	--
AUG.										
01...	127	3.2	20	0	8.9	2.3	.5	.8	31	--
28...	34	3.7	20	0	13	2.1	1.0	1.0	33	--

DATE	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 NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)
OCT., 1973										
04...	29	9.0	2.5	.2	.04	.00	48	4.92	.07	35
NOV.										
01...	31	7.8	.4	.4	.13	.00	48	2.85	.07	37
27...	38	7.9	.9	.2	.12	.01	55	2.38	.07	43
JAN., 1974										
02...	33	8.2	.9	.3	.21	.01	52	2.11	.07	40
FEB.										
05...	33	9.9	1.6	.3	.18	.00	56	2.12	.08	42
MAR.										
13...	30	9.8	.1	.2	.13	.00	50	2.16	.07	39
25...	24	8.5	1.2	.2	.15	.00	42	4.20	.06	31
APR.										
09...	26	8.5	.7	.3	.09	.01	46	5.96	.06	37
MAY										
01...	24	7.0	.5	.6	.09	.00	41	14.1	.06	32
13...	20	7.7	.8	.3	.25	.00	36	37.5	.05	26
JUNE										
03...	19	9.2	2.6	.2	.05	.03	59	30.6	.08	26
11...	14	6.4	.3	.2	.08	.00	26	15.4	.04	18
JULY										
01...	15	6.5	.7	.2	.02	.00	27	7.80	.04	20
AUG.										
01...	25	9.0	1.3	.2	.12	.01	42	14.4	.06	32
28...	27	8.9	.7	.2	.03	.01	47	4.31	.06	41

09352900 VALLECITO CREEK NEAR BAYFIELD, COLO.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	NON-CARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
OCT., 1973										
04...	7	6	.1	86	8.0	7.0	10.1	80	83	85
NOV.										
01...	5	7	.1	83	7.7	3.0	10.1	80	80	82
27...	5	6	.1	94	8.1	1.0	8.6	80	80	80
JAN., 1974										
02...	7	10	.1	84	7.9	.0	7.8	80	80	80
FEB.										
05...	10	13	.2	90	7.8	.0	8.2	80	80	80
MAR.										
13...	8	6	.1	85	8.0	2.0	6.8	80	80	82
25...	7	6	.1	71	7.2	1.0	9.0	--	--	--
APR.										
09...	11	7	.1	75	7.7	3.0	10.0	80	80	80
MAY										
01...	9	7	.1	70	7.7	3.0	10.4	80	80	80
13...	6	5	.1	58	7.4	4.0	9.6	--	--	--
JUNE										
03...	7	5	.1	55	8.1	6.0	10.0	80	80	84
11...	4	8	.1	42	8.2	7.0	10.1	--	--	--
JULY										
01...	5	2	.0	43	8.2	12.0	10.0	22	34	28
AUG.										
01...	6	3	.0	70	8.1	13.0	8.9	814	86	46
28...	14	5	.1	76	8.0	15.0	8.5	22	83	86

DATE	CYANIDE (CN) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)
OCT., 1973											
04...	--	--	--	--	--	--	--	--	--	--	--
JAN., 1974											
02...	--	--	--	--	--	--	--	0	--	--	--
MAY											
13...	.00	1	0	<10	30	<10	250	<100	40	.2	0
AUG.											
28...	--	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/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)	DISSOLVED RA-226 (RADON METHOD) (PC/L)	DISSOLVED URANIUM (U) (UG/L)
OCT., 1973										
04...	--	--	1.7	<.4	2.0	<.4	1.6	<.4	.04	.41
JAN., 1974										
02...	--	--	--	--	--	--	--	--	--	--
MAY										
13...	<10	30	--	--	--	--	--	--	--	--
AUG.										
28...	--	--	1.5	<.4	1.9	<.4	1.5	<.4	.07	.37

09352900 VALLECITO CREEK NEAR BAYFIELD, COLO.--Continued

SILVER ANALYSES, MARCH 1974 TO AUGUST 1974

DATE	DIS-CHARGE (CFS)	TOTAL SILVER (AG) (UG/L)
MAR.		
25...	37	<0.03
APR.		
09...	48	.03
MAY		
01...	127	.04
13...	386	.03
JUNE		
03...	192	.03
11...	220	.08
JULY		
01...	107	.03
AUG.		
01...	127	< .03
28...	34	.03

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT.. 1973				
04...	38	7.0	1	.10
NOV.				
01...	22	3.0	1	.06
27...	16	1.0	1	.04
JAN.. 1974				
02...	15	.0	1	.04
FEB.				
05...	14	.0	1	.04
28...	12	1.0	1	.03
MAR.				
25...	37	1.0	1	.10
APR.				
09...	48	3.0	1	.13
MAY				
01...	127	3.0	2	.69
13...	386	4.0	4	4.2
JUNE				
03...	192	6.0	2	1.0
11...	220	7.0	2	1.2
JULY				
01...	107	12.0	2	.58
AUG.				
01...	127	13.0	1	.34
28...	34	15.0	0	.00

09352900 VALLECITO CREEK NEAR BAYFIELD, COLO.--Continued

TEMPERATURE (DEG. C) OF WATER . WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	7.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
2	10.0	7.0	3.0	2.0	0.0	0.0	0.0	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	0.0	0.0	0.0	1.0	1.0
4	9.0	6.0	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.0
5	8.0	7.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
6	8.0	7.0	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
7	9.0	7.0	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
8	9.0	6.0	4.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
9	7.0	4.0	4.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
10	4.0	2.0	4.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
11	4.0	2.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
12	5.0	3.0	4.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.0
13	6.0	4.0	4.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.0
14	7.0	4.0	4.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.0
15	7.0	5.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.0
16	7.0	5.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.0
17	7.0	5.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
18	7.0	5.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.0
19	7.0	5.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	2.0
20	6.0	5.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	2.0
21	6.0	5.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	3.0	2.0
22	6.0	5.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	3.0	1.0
23	6.0	5.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	4.0	2.0
24	6.0	5.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	4.0	2.0
25	5.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	4.0	1.0
26	4.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	4.0	2.0
27	4.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	5.0	3.0
28	4.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	5.0	2.0
29	4.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0	---	---	6.0	3.0
30	3.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	---	---	6.0	3.0
31	3.0	2.0	---	---	0.0	0.0	0.0	0.0	---	---	6.0	4.0

TEMPERATURE (DEG. C) OF WATER . WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.0	2.0	8.0	3.0	8.0	5.0	18.0	12.0	17.0	13.0	17.0	12.0
2	4.0	2.0	10.0	4.0	9.0	5.0	19.0	13.0	16.0	14.0	17.0	13.0
3	3.0	2.0	10.0	4.0	11.0	6.0	17.0	12.0	15.0	14.0	17.0	13.0
4	4.0	2.0	8.0	4.0	11.0	7.0	19.0	13.0	17.0	12.0	15.0	13.0
5	4.0	2.0	9.0	4.0	10.0	7.0	17.0	14.0	18.0	12.0	15.0	12.0
6	6.0	3.0	8.0	5.0	13.0	7.0	17.0	12.0	17.0	14.0	16.0	13.0
7	6.0	3.0	11.0	5.0	11.0	7.0	17.0	14.0	18.0	14.0	16.0	13.0
8	6.0	2.0	11.0	5.0	11.0	6.0	17.0	14.0	17.0	14.0	15.0	13.0
9	6.0	3.0	8.0	5.0	13.0	6.0	19.0	13.0	16.0	13.0	15.0	14.0
10	5.0	2.0	10.0	5.0	14.0	7.0	20.0	15.0	17.0	11.0	15.0	14.0
11	4.0	2.0	10.0	4.0	13.0	7.0	19.0	13.0	16.0	12.0	15.0	13.0
12	4.0	2.0	9.0	4.0	15.0	5.0	19.0	14.0	15.0	12.0	15.0	13.0
13	3.0	2.0	6.0	4.0	13.0	8.0	17.0	15.0	18.0	13.0	15.0	14.0
14	3.0	2.0	11.0	4.0	15.0	9.0	17.0	15.0	17.0	12.0	15.0	14.0
15	5.0	2.0	11.0	4.0	12.0	9.0	18.0	14.0	18.0	14.0	15.0	13.0
16	6.0	2.0	10.0	4.0	15.0	9.0	16.0	14.0	16.0	13.0	14.0	12.0
17	8.0	3.0	7.0	4.0	13.0	10.0	17.0	13.0	18.0	13.0	13.0	12.0
18	8.0	3.0	11.0	5.0	13.0	10.0	18.0	14.0	18.0	14.0	14.0	12.0
19	7.0	4.0	7.0	5.0	16.0	10.0	18.0	13.0	18.0	15.0	14.0	12.0
20	4.0	2.0	6.0	2.0	14.0	11.0	17.0	13.0	18.0	15.0	14.0	12.0
21	7.0	2.0	9.0	2.0	16.0	11.0	18.0	14.0	17.0	13.0	16.0	13.0
22	8.0	3.0	9.0	3.0	15.0	11.0	19.0	14.0	17.0	13.0	16.0	14.0
23	8.0	4.0	9.0	5.0	16.0	11.0	18.0	14.0	17.0	14.0	15.0	12.0
24	6.0	5.0	9.0	6.0	17.0	10.0	17.0	14.0	17.0	15.0	15.0	12.0
25	6.0	5.0	12.0	5.0	16.0	12.0	17.0	14.0	15.0	14.0	13.0	11.0
26	8.0	5.0	12.0	5.0	16.0	12.0	17.0	14.0	16.0	13.0	13.0	11.0
27	8.0	3.0	9.0	5.0	17.0	12.0	18.0	15.0	16.0	15.0	12.0	9.0
28	8.0	3.0	10.0	5.0	18.0	12.0	18.0	14.0	15.0	14.0	13.0	7.0
29	7.0	3.0	11.0	4.0	17.0	13.0	19.0	14.0	15.0	13.0	11.0	7.0
30	9.0	3.0	11.0	4.0	15.0	12.0	19.0	15.0	15.0	13.0	11.0	7.0
31	---	---	8.0	6.0	---	---	18.0	16.0	15.0	13.0	---	---

09357500 ANIMAS RIVER AT HOWARDSVILLE, COLO.

LOCATION (revised).--Lat 37°49'59", long 107°35'56", San Juan County, at gaging station, 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 mi^2 (144.8 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1974.

REMARKS.--Silver sample analyses performed by Bureau of Reclamation.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
APR.. 1974												
03...	17	8.0	20	470	60	2.9	2.5	1.0	36	0	30	130
09...	17	8.0	30	340	60	2.9	3.3	.9	36	0	30	130
MAY												
01...	46	7.0	80	240	43	2.4	2.5	1.1	36	0	30	88
20...	232	5.0	50	300	23	1.5	1.0	.8	22	--	18	45
JUNE												
05...	313	4.3	30	280	19	1.3	1.2	.9	21	--	17	33
18...	257	3.0	40	340	23	1.3	1.2	.8	22	--	18	38
JULY												
01...	132	5.0	10	300	24	1.4	1.7	.8	27	--	22	46
AUG.												
07...	37	7.1	20	260	41	2.6	1.9	.9	36	--	30	84
SEP.												
04...	20	8.1	20	280	50	2.8	2.2	.9	38	--	31	100

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
APR.. 1974												
03...	.7	.9	.16	.01	225	160	130	.1	353	7.3	6.0	8.6
09...	.6	.6	.14	.01	225	160	130	.1	354	7.5	3.0	8.8
MAY												
01...	.5	.8	.26	.00	165	120	88	.1	265	7.6	4.0	7.7
20...	1.1	.6	.28	.00	90	64	46	.1	156	8.0	2.0	10.2
JUNE												
05...	.3	1.4	.15	.01	73	53	36	.1	123	7.7	4.0	10.4
18...	.3	.4	.08	.00	80	63	45	.1	126	7.7	7.0	9.6
JULY												
01...	.7	.3	.09	.00	94	66	44	.1	156	8.0	9.0	8.4
AUG.												
07...	.3	.6	.15	.01	157	110	84	.1	251	7.5	12.0	8.8
SEP.												
04...	.2	.7	.08	.00	184	140	110	.1	302	8.0	12.0	7.5

09357500 ANIMAS RIVER AT HOWARDSVILLE, COLO.--Continued

SILVER ANALYSES, APRIL 1974 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	TOTAL SILVER (AG) (UG/L)
APR.		
03...	17	0.06
09...	17	.04
MAY		
01...	46	.03
20...	232	.06
JUNE		
05...	313	.03
18...	257	.04
JULY		
01...	132	< .03
AUG.		
07...	37	.03
SEP.		
04...	20	.04

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
APR., 1974				
03...	17	6.0	2	.09
09...	17	3.0	1	.05
MAY				
01...	46	4.0	4	.50
20...	232	2.0	5	3.1
JUNE				
05...	313	4.0	4	3.4
18...	257	7.0	2	1.4
JULY				
01...	132	9.0	2	.71
AUG.				
07...	37	12.0	0	.00
SEP.				
04...	20	12.0	2	.11

09358900 MINERAL CREEK ABOVE SILVERTON, COLO.

LOCATION.--Lat 37°51'04", long 107°43'31", San Juan County, at gaging station, on right bank 200 ft (61 m) upstream from bridge, 0.6 mi (1.0 km) upstream from Middle Fork, and 4.3 mi (6.9 km) northwest of Silverton.

DRAINAGE AREA.--11.0 mi^2 (28.5 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1974.

REMARKS.--Silver sample analyses performed by Bureau of Reclamation.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
APR., 1974												
03...	5.6	12	80	620	76	4.0	5.3	1.2	5	0	4	200
09...	6.6	12	80	490	72	4.1	5.2	.9	4	0	3	200
MAY												
01...	13	9.5	320	630	41	2.8	3.4	1.0	2	0	2	120
20...	44	5.5	350	270	19	1.5	1.3	.7	4	--	3	49
JUNE												
05...	55	4.3	160	140	14	1.1	1.3	.8	6	--	5	37
18...	56	2.5	80	100	15	.8	1.1	.7	7	--	6	30
JULY												
01...	27	4.5	50	120	17	1.0	1.2	.9	8	--	7	41
AUG.												
07...	10	7.6	50	280	36	2.1	2.1	.8	6	--	5	91
SEP.												
04...	5.0	9.8	20	330	49	2.2	3.8	.8	13	--	11	120

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
APR., 1974												
03...	1.4	.6	.15	.02	304	210	200	.2	461	6.4	1.0	9.6
09...	1.2	.3	.12	.01	299	200	190	.2	448	6.1	1.0	9.8
MAY												
01...	.7	.8	.18	.00	182	110	110	.1	282	5.8	2.0	8.0
20...	.7	.4	.12	.00	81	54	50	.1	141	8.0	1.0	9.9
JUNE												
05...	.2	1.3	.09	.00	64	40	35	.1	106	7.8	4.0	10.2
18...	.5	.3	.03	.00	55	41	35	.1	91	7.6	5.0	9.2
JULY												
01...	.5	.1	.03	.00	70	47	40	.1	119	7.8	7.0	9.2
AUG.												
07...	.3	.3	.06	.01	144	99	94	.1	228	7.6	10.0	8.8
SEP.												
04...	.8	.4	.03	.00	194	130	120	.1	327	7.8	10.0	7.5

09358900 MINERAL CREEK ABOVE SILVERTON, COLO.--Continued

SILVER ANALYSES, APRIL 1974 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	TOTAL SILVER (AG) (UG/L)
APR.		
03...	5.6	0.07
09...	6.6	.04
MAY		
01...	13	.04
20...	44	.06
JUNE		
05...	55	.04
18...	56	.06
JULY		
01...	27	< .03
AUG.		
07...	10	.06
SEP.		
04...	5.0	.03

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
APR., 1974				
03...	5.6	1.0	14	.21
09...	6.6	1.0	9	.16
MAY				
01...	13	2.0	8	.28
20...	44	1.0	34	4.0
JUNE				
05...	55	4.0	11	1.6
18...	56	5.0	6	.91
JULY				
01...	27	7.0	5	.36
AUG.				
07...	10	10.0	16	.43
SEP.				
04...	5.0	10.0	2	.03

ANALYSES OF SAMPLES COLLECTED AT

WATER-QUALITY PARTIAL-RECORD STATIONS

BEGINS ON THE FOLLOWING PAGE.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	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)
06733000 - BIG THOMPSON RIVER AT ESTES PARK, COLO. (LAT 40 22 42 LONG 105 30 48)							
NOV., 1973							
16...	28	.07	.02	.41	.43	.50	.03
FEB., 1974							
25...	13	.39	.12	.25	.37	.76	.14
MAY							
09...	312	.03	.04	.30	.34	.37	.03
SEP.							
12...	73	.08	.04	.21	.25	.33	.01

DATE	DEPTH (FT)	RESER-VOIR STORAGE (AC-FT)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	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)
09013900 - GRAND LAKE AT GRAND LAKE, CO. (LAT 40 14 41 LONG 105 49 32)								
NOV., 1973								
13...	2.0	816	.03	.01	.17	.18	.21	.02
FEB., 1974								
14...	2.0	837	.08	.03	.37	.40	.48	.01
MAY								
16...	2.0	826	.09	.03	.19	.22	.31	.02
SEP.								
30...	.2	811	.00	.03	.26	.29	.29	.12
09014500 - SHADOW MOUNTAIN LAKE NEAR GRAND LAKE, CO. (LAT 40 12 26 LONG 105 50 27)								
NOV., 1973								
13...	2.0	16290	.04	.03	.23	.26	.30	.03
FEB., 1974								
14...	2.0	16420	.06	.01	.23	.24	.30	.00
MAY								
16...	2.0	16380	.02	.06	.35	.41	.43	.03
SEP.								
30...	2.0	16380	.05	.04	.23	.27	.32	.03
09018500 - LAKE GRANBY NEAR GRANBY, CO. (LAT 40 10 55 LONG 105 52 14)								
NOV., 1973								
13...	2.0	447400	.05	.06	.23	.29	.34	.02
FEB., 1974								
14...	2.0	395600	.03	.04	.29	.33	.36	.01
MAY								
16...	2.0	385100	.14	.05	.23	.28	.42	.04
SEP.								
30...	2.0	418100	.01	.06	.26	.32	.33	.01

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
09070500 - COLORADO RIVER NEAR DOTSERO, COLO. (LAT 39 38 40 LONG 107 04 40)												
NOV., 1973												
12...	1240	9.4	50	0	46	9.3	20	2.3	118	1	98	73
FEB., 1974												
11...	940	11	140	100	49	9.5	29	2.4	128	0	105	76
MAY												
06...	6690	11	90	10	26	5.7	8.3	1.7	91	0	75	27
AUG.												
19...	1330	9.6	20	20	62	12	60	3.3	137	0	112	100

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)
06733000 - BIG THOMPSON RIVER AT ESTES PARK, COLO. (LAT 40 22 42 LONG 105 30 48)							
NOV., 1973							
16...	<50	7.4	.0	9.8	1	.0	0
FEB., 1974							
25...	<50	7.3	.0	10.0	4	.0	1
MAY							
09...	<50	6.9	9.0	8.3	3	.0	0
SEP.							
12...	<50	7.6	5.0	9.8	2	.0	1

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (IN)	DISSOLVED OXYGEN (MG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)
09013900 - GRAND LAKE AT GRAND LAKE, CO. (LAT 40 14 41 LONG 105 49 32)								
NOV., 1973								
13...	<50	7.3	5.0	126	7.2	4	.0	3
FEB., 1974								
14...	<50	7.3	.0	--	7.4	1	.1	1
MAY								
16...	<50	7.0	4.0	130	7.2	1	.0	1
SEP.								
30...	55	6.5	10.5	114	7.6	0	.2	0
09014500 - SHADOW MOUNTAIN LAKE NEAR GRAND LAKE, CO. (LAT 40 12 26 LONG 105 50 27)								
NOV., 1973								
13...	60	7.2	5.0	83	7.8	6	.0	1
FEB., 1974								
14...	60	7.1	.0	--	7.5	1	.0	0
MAY								
16...	55	6.8	7.0	42	8.4	4	.0	1
SEP.								
30...	60	6.6	7.5	94	6.2	0	.4	0
09018500 - LAKE GRANBY NEAR GRANBY, CO. (LAT 40 10 55 LONG 105 52 14)								
NOV., 1973								
13...	55	--	6.5	108	6.8	4	.0	2
FEB., 1974								
14...	60	7.6	--	--	9.2	1	.0	0
MAY								
16...	60	7.3	5.0	77	9.0	4	.0	0
SEP.								
30...	60	6.5	12.0	161	6.9	1	.2	1

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
09070500 - COLORADO RIVER NEAR DOTSERO, COLO. (LAT 39 38 40 LONG 107 04 40)												
NOV., 1973												
12...	23	.0	.03	.02	242	150	55	.7	402	8.4	6.0	11.2
FEB., 1974												
11...	35	.5	.24	.01	277	160	56	1.0	466	7.7	.0	11.8
MAY												
06...	5.1	.2	.13	.02	131	88	14	.4	216	7.8	9.5	8.7
AUG.												
19...	83	.3	.06	.00	398	200	92	1.8	700	8.1	16.0	8.8

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974--Continued

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
09149500 - UNCOMPAHGRE RIVER AT DELTA, CO. (LAT 38 44 31 LONG 108 04 49)												
NOV., 1973												
30...	206	17	90	80	250	89	180	5.4	304	0	249	1000
FEB., 1974												
28...	150	16	20	120	230	87	180	6.5	309	0	253	970
MAY												
02...	597	14	30	60	110	32	73	3.3	167	0	137	380
AUG.												
14...	176	21	60	50	250	69	130	4.7	291	--	239	850
09163500 - COLORADO RIVER NEAR COLORADO-UTAH STATE LINE (LAT 39 10 00 LONG 108 57 26)												
FEB., 1974												
06...	5670	12	10	0	69	24	72	3.3	162	0	133	190
MAY												
16...	14000	10	50	0	45	13	29	2.0	108	0	89	110
SEP.												
04...	2020	9.4	50	30	180	57	150	5.7	218	--	179	660
09259700 - LITTLE SNAKE RIVER NEAR BAGGS, WY. (LAT 41 00 10 LONG 107 55 10)												
MAR., 1974												
20...	--	15	--	--	55	9.7	38	2.8	176	0	144	110
MAY												
21...	--	13	--	--	20	.3	4.8	.7	61	0	50	7.4
JULY												
17...	--	14	--	--	31	13	19	2.6	156	0	128	39
AUG.												
22...	--	6.7	--	--	53	26	60	2.6	310	0	254	100
09304550 - CURTIS CREEK NEAR MEEKER, CO. (LAT 40 02 22 LONG 107 52 54)												
NOV., 1973												
15...	.50	11	60	120	210	450	720	18	880	0	722	3000
MAY , 1974												
29...	.40	9.0	40	70	260	590	960	16	774	0	635	3800
SEP.												
23...	.50	16	90	280	270	590	1.0	16	728	--	597	3900

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974--Continued

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
09149500 - UNCOMPAHGRE RIVER AT DELTA, CO. (LAT 38 44 31 LONG 108 04 49)												
NOV., 1973												
30...	18	.7	5.1	.06	1730	990	740	2.5	2200	7.9	1.0	11.8
FEB., 1974												
28...	41	.7	3.9	.06	1700	930	680	2.6	2170	8.1	.5	11.5
MAY												
02...	7.3	.7	1.3	.04	709	410	270	1.6	1020	7.9	9.5	9.8
AUG.												
14...	13	.9	4.0	.04	1500	910	670	1.9	1940	7.6	13.5	9.8
09163500 - COLORADO RIVER NEAR COLORADO-UTAH STATE LINE (LAT 39 10 00 LONG 108 57 24)												
FEB., 1974												
06...	69	.2	.60	.01	522	270	140	1.9	867	8.0	.0	11.9
MAY												
16...	22	.4	.33	.01	286	170	77	1.0	471	7.9	13.0	9.0
SEP.												
04...	120	.5	1.2	.01	1300	680	510	2.5	1830	7.8	18.5	9.0
09259700 - LITTLE SNAKE RIVER NEAR BAGGS, WY. (LAT 41 00 10 LONG 107 55 10)												
MAR., 1974												
20...	7.6	.6	--	--	325	180	36	1.2	499	8.2	2.0	--
MAY												
21...	1.8	.2	--	--	79	50	0	.3	129	7.8	5.5	--
JULY												
17...	3.7	.2	--	--	199	130	2	.7	324	7.8	20.0	--
AUG.												
22...	13	.5	--	--	416	240	0	1.7	682	8.2	21.0	--
09304550 - CURTIS CREEK NEAR MEEKER, CO. (LAT 40 02 22 LONG 107 52 54)												
NOV., 1973												
15...	200	.2	.37	.08	5050	2400	1700	6.4	5580	8.1	.0	10.2
MAY , 1974												
29...	410	1.0	.07	.03	6430	3100	2400	7.5	7460	7.9	20.0	7.8
SEP.												
23...	310	.2	.00	.01	5460	3100	2500	.0	7	8.2	10.5	8.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974--Continued

09343000 - RIO BLANCO NEAR PAGOSA SPRINGS, CO. (LAT 37 12 46 LONG 106 47 38)

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
APR.. 1974											
16...	45	--	--	--	--	--	--	--	--	--	--
23...	88	19	10	14	2.1	7.3	1.5	64	0	53	8.9
MAY											
13...	280	--	--	--	--	--	--	--	--	--	--
14...	270	--	--	--	--	--	--	--	--	--	--
29...	211	18	20	7.7	1.1	3.5	1.1	34	0	28	5.0
JUNE											
11...	107	20	20	13	1.6	5.0	1.3	53	--	43	5.3
13...	107	--	--	--	--	--	--	--	--	--	--
JULY											
03...	37	24	20	16	2.6	6.5	1.7	77	0	63	6.1
24...	51	24	50	16	2.6	6.6	1.7	74	--	61	8.6
AUG.											
20...	28	25	20	19	3.5	8.1	1.9	90	--	74	5.5
SEP.											
04...	17	--	--	--	--	--	--	--	--	--	--
19...	15	26	20	22	2.9	8.5	1.9	102	--	84	6.4

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
APR.. 1974											
16...	--	--	--	--	--	--	--	--	141	--	5.6
23...	.9	.1	.05	.03	82	86	44	0	121	8.1	8.0
MAY											
13...	--	--	--	--	--	--	--	--	73	--	10.0
14...	--	--	--	--	--	--	--	--	76	--	9.0
29...	.3	.0	.00	.06	46	54	24	0	69	7.7	14.5
JUNE											
11...	.5	.1	.02	.05	79	73	39	0	98	7.8	14.0
13...	--	--	--	--	--	--	--	--	92	--	14.5
JULY											
03...	.7	.1	.00	.04	101	96	51	0	132	7.8	14.0
24...	.1	.1	.07	.05	101	97	51	0	131	--	14.5
AUG.											
20...	.3	.1	.02	.03	101	108	62	0	153	--	16.0
SEP.											
04...	--	--	--	--	--	--	--	--	175	--	10.5
19...	.8	.2	.00	.04	116	119	67	0	172	--	10.5

DATE	TURBIDITY (JTU)	DISSOLVED BORON (B) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
APR.. 1974										
16...	8	--	13	1.6	99	100	--	--	--	--
23...	--	10	--	--	--	--	--	--	--	--
MAY										
13...	9	--	59	45	45	57	71	89	96	100
14...	9	--	36	26	62	76	87	100	--	--
29...	3	20	22	13	46	58	72	90	100	--
JUNE										
11...	3	10	10	2.9	48	100	--	--	--	--
13...	2	--	7	2.0	83	89	95	100	--	--
JULY										
03...	2	20	6	.60	80	85	99	100	--	--
24...	7	10	17	2.3	82	89	96	100	--	--
AUG.										
20...	2	10	3	.23	66	81	100	--	--	--
SEP.										
04...	2	--	9	.41	57	73	82	92	100	--
19...	1	20	3	.12	63	74	100	--	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974--Continued

09343000 - RIO BLANCO NEAR PAGOSA SPRINGS, CO. (LAT 37 12 46 LONG 106 47 38)

DATE	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	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)	DIS-SOLVED OXYGEN (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)
JUNE, 1974											
11...	.02	.00	.02	.01	.24	.25	.27	8.2	24	2.0	0

DATE	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
JUNE, 1974										
11...	0	0	0	0	<100	10	.0	1	0	10

09343300 - RIO BLANCO BL BLANCO DIV DAM, NR PAGOSA SPS, CO. (LAT 37 12 11 LONG 106 48 45)

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
APR., 1974											
16...	21	--	--	--	--	--	--	--	--	--	--
23...	21	19	20	14	2.0	6.9	1.4	61	0	50	8.9
MAY											
13...	280	--	--	--	--	--	--	--	--	--	--
14...	270	--	--	--	--	--	--	--	--	--	--
29...	42	18	30	8.0	1.2	3.6	1.1	36	0	30	5.1
JUNE											
11...	22	19	20	11	1.4	5.0	1.3	51	--	42	5.1
13...	23	--	--	--	--	--	--	--	--	--	--
JULY											
03...	22	24	50	17	2.1	6.5	1.7	78	0	64	6.9
24...	23	24	20	17	2.4	6.9	1.7	77	--	63	6.3
AUG.											
05...	23	--	--	--	--	--	--	--	--	--	--
05...	89	--	--	--	--	--	--	--	--	--	--
20...	24	25	30	20	3.5	8.7	1.9	93	--	76	6.6
SEP.											
04...	17	--	--	--	--	--	--	--	--	--	--
19...	15	26	10	23	3.2	9.1	2.0	106	--	87	6.9

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
APR., 1974											
16...	--	--	--	--	--	--	--	--	131	--	3.9
23...	1.0	.2	.04	.00	80	84	43	0	116	8.1	7.5
MAY											
13...	--	--	--	--	--	--	--	--	84	--	9.0
14...	--	--	--	--	--	--	--	--	78	--	9.0
29...	.5	.0	.00	.05	52	55	25	0	71	7.7	13.5
JUNE											
11...	.3	.1	.04	.03	79	69	33	0	94	7.8	9.0
13...	--	--	--	--	--	--	--	--	99	--	14.0
JULY											
03...	.7	.1	.00	.04	98	98	51	0	134	7.8	10.0
24...	.6	.1	.05	.01	89	97	52	0	133	--	10.0
AUG.											
05...	--	--	--	--	--	--	--	--	101	--	18.0
05...	--	--	--	--	--	--	--	--	109	--	18.5
20...	.2	.1	.03	.04	101	112	64	0	159	--	13.0
SEP.											
04...	--	--	--	--	--	--	--	--	181	--	9.0
19...	1.4	.2	.00	.03	118	124	71	0	179	--	8.5

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974--Continued

09343300 - RIO BLANCO BL BLANCO DIV DAM, NR PAGOSA SPS, CO. (LAT 37 12 11 LONG 106 48 45)

DATE	TURBIDITY (JTU)	DISSOLVED BORON (B) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
APR., 1974										
16...	8	--	13	.74	95	100	--	--	--	--
23...	--	10	--	--	--	--	--	--	--	--
MAY										
13...	31	--	1310	990	16	31	60	85	89	94
14...	10	--	165	120	20	29	59	87	94	95
29...	3	20	13	1.5	61	81	100	--	--	--
JUNE										
11...	2	20	13	.77	50	60	70	78	100	--
13...	2	--	4	.25	75	100	--	--	--	--
JULY										
03...	2	20	6	.36	84	92	100	--	--	--
24...	8	10	27	1.7	60	64	68	85	95	100
AUG.										
05...	7	--	47	2.9	80	91	96	100	--	--
05...	7	--	22	5.3	77	86	89	92	92	100
20...	2	10	2	.13	58	82	100	--	--	--
SEP.										
04...	2	--	4	.18	76	78	100	--	--	--
19...	1	10	3	.12	57	70	100	--	--	--

DATE	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)
JUNE, 1974											
11...	.04	.00	.04	.01	.23	.24	.28	9.0	41	1.8	1

DATE	DISSOLVED BARIUM (BA) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED SILVER (AG) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
JUNE, 1974										
11...	0	0	0	0	<100	0	.0	1	0	20

09343400 - RIO BLANCO AT US HIGHWAY 84, NR PAGOSA SPGS, CO. (LAT 37 08 30 LONG 106 50 24)

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
APR., 1974										
16...	25	--	--	--	--	--	--	--	--	--
23...	30	17	30	23	6.2	11	1.7	91	0	75
MAY										
13...	280	--	--	--	--	--	--	--	--	--
14...	270	--	--	--	--	--	--	--	--	--
29...	40	17	20	11	2.0	4.6	1.0	44	0	36
JUNE										
13...	20	--	--	--	--	--	--	--	--	--
JULY										
03...	20	23	20	19	3.4	7.4	1.9	90	0	74
24...	22	22	10	19	3.5	8.4	1.8	86	--	71
AUG.										
05...	20	--	--	--	--	--	--	--	--	--
20...	20	22	20	20	3.2	8.8	1.8	99	--	81
SEP.										
04...	17	--	--	--	--	--	--	--	--	--
19...	15	22	10	24	3.4	9.5	1.9	111	--	91

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974--Continued

09343400 - RIO BLANCO AT US HIGHWAY 84, NR PAGOSA SPGS, CO. (LAT 37 08 30 LONG 106 50 24)

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
APR., 1974										
16...	--	--	--	--	--	--	--	--	--	226
23...	32	1.7	.2	.01	.03	130	138	83	8	210
MAY										
13...	--	--	--	--	--	--	--	--	--	210
14...	--	--	--	--	--	--	--	--	--	101
29...	8.4	.5	.0	.00	.05	63	66	36	0	92
JUNE										
13...	--	--	--	--	--	--	--	--	--	117
JULY										
03...	9.1	.7	.1	.00	.03	112	109	61	0	156
24...	8.9	.8	.1	.01	.01	101	107	62	0	153
AUG.										
05...	--	--	--	--	--	--	--	--	--	250
20...	8.3	.3	.1	.01	.00	106	113	63	0	170
SEP.										
04...	--	--	--	--	--	--	--	--	--	190
19...	9.2	1.3	.2	.00	.01	126	126	74	0	188

DATE	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED BORON (B) (UG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
APR., 1974										
16...	--	5.5	9	--	16	1.1	77	81	90	100
23...	8.0	9.0	--	30	--	--	--	--	--	--
MAY										
13...	--	11.0	400	--	7030	5310	--	--	--	--
14...	--	15.0	52	--	686	500	--	--	--	--
29...	8.0	16.5	--	9	--	--	--	--	--	--
JUNE										
13...	--	21.5	1	--	4	.22	90	100	--	--
JULY										
03...	8.2	15.0	1	20	4	.22	82	96	100	--
24...	--	19.0	7	10	16	.95	85	92	96	100
AUG.										
05...	--	20.5	25	--	53	2.9	91	93	99	100
20...	--	16.0	3	20	11	.59	67	78	91	100
SEP.										
04...	--	12.0	2	--	7	.32	60	72	85	100
19...	--	12.0	1	10	9	.36	74	83	90	100

09344300 - NAVAJO RIVER ABOVE CHROMO, CO. (LAT 37 01 55 LONG 106 43 56)

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
APR., 1974											
16...	80	--	--	--	--	--	--	--	--	--	--
23...	100	21	20	19	3.6	7.0	1.3	51	0	42	36
MAY											
09...	280	--	--	--	--	--	--	--	--	--	--
12...	300	--	--	--	--	--	--	--	--	--	--
29...	213	18	40	8.9	1.4	3.3	.8	28	0	23	14
JUNE											
12...	157	21	200	12	1.8	4.0	1.0	34	--	28	17
14...	144	--	--	--	--	--	--	--	--	--	--
JULY											
03...	65	26	20	17	2.4	5.4	1.2	45	0	37	33
24...	61	24	20	14	2.6	5.0	1.2	38	--	31	26
AUG.											
06...	92	--	--	--	--	--	--	--	--	--	--
20...	38	28	30	19	3.1	6.5	1.7	54	--	44	34
23...	30	--	--	--	--	--	--	--	--	--	--
27...	30	--	--	--	--	--	--	--	--	--	--
SEP.											
04...	27	--	--	--	--	--	--	--	--	--	--
19...	34	29	20	21	2.9	7.6	1.4	55	--	45	36

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974--Continued

09344300 - NAVAJO RIVER ABOVE CHROMO, CO. (LAT 37 01 55 LONG 106 43 56)

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
APR., 1974											
16...	--	--	--	--	--	--	--	--	193	--	6.5
23...	.9	.2	.00	.15	112	115	62	20	168	8.0	5.0
MAY											
09...	--	--	--	--	--	--	--	--	112	--	10.0
12...	--	--	--	--	--	--	--	--	100	--	10.0
29...	.8	.1	.00	1.2	60	65	28	5	78	7.5	7.5
JUNE											
12...	.6	.2	.02	.02	82	75	37	9	96	7.7	6.0
14...	--	--	--	--	--	--	--	--	102	--	8.0
JULY											
03...	.8	.1	.00	.09	111	108	52	15	141	7.8	17.0
24...	.0	.1	.02	.04	83	92	46	15	131	--	17.0
AUG.											
06...	--	--	--	--	--	--	--	--	125	--	10.5
20...	1.1	.2	.03	.05	116	121	60	16	162	--	17.0
23...	--	--	--	--	--	--	--	--	166	--	8.0
27...	--	--	--	--	--	--	--	--	168	--	10.0
SEP.											
04...	--	--	--	--	--	--	--	--	174	--	15.0
19...	.8	.2	.00	.05	125	126	64	19	175	--	14.0

DATE	TUR-BID-ITY (JTU)	DIS-SOLVED BORON (B) (UG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
APR., 1974										
16...	7	--	14	3.0	89	93	100	--	--	--
23...	--	10	--	--	--	--	--	--	--	--
MAY										
09...	28	--	168	127	56	68	82	95	98	100
12...	17	--	138	112	53	67	81	94	98	100
29...	11	10	119	68	38	53	70	88	93	100
JUNE										
12...	3	20	14	5.9	56	76	90	100	--	--
14...	2	--	10	3.9	56	70	88	100	--	--
JULY										
03...	1	10	2	.35	82	84	92	100	--	--
24...	22	20	63	14	95	98	99	100	--	--
AUG.										
06...	11	--	53	13	78	93	98	100	--	--
20...	2	20	11	1.1	76	86	92	100	--	--
23...	2	--	7	.57	86	90	96	100	--	--
27...	2	--	8	.65	91	95	99	100	--	--
SEP.										
04...	1	--	4	.29	65	70	97	100	--	--
19...	1	30	3	.28	77	82	85	100	--	--

DATE	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	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)	DIS-SOLVED OXYGEN (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)
JUNE, 1974											
12...	.02	.00	.03	.01	.22	.23	.26	9.6	5	1.5	0

DATE	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
JUNE, 1974										
12...	0	0	0	0	<100	10	.0	0	0	10

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974--Continued

09344450 - NAVAJO RIVER BL OSO DIV DAM, NEAR CHROMO, CO. (LAT 37 31 48 LONG 106 44 16)

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
APR., 1974											
16...	38	--	--	--	--	--	--	--	--	--	--
23...	39	21	20	20	3.7	6.9	1.0	54	0	44	37
MAY											
09...	280	--	--	--	--	--	--	--	--	--	--
12...	300	--	--	--	--	--	--	--	--	--	--
29...	90	18	40	9.4	1.5	3.4	.8	28	0	23	12
JUNE											
12...	59	21	160	12	1.8	4.2	1.0	35	--	29	16
14...	59	--	--	--	--	--	--	--	--	--	--
JULY											
03...	59	26	20	17	2.8	5.4	1.2	48	0	39	31
24...	59	23	10	14	2.7	4.8	1.3	37	--	30	26
AUG.											
06...	59	--	--	--	--	--	--	--	--	--	--
20...	45	28	10	19	2.5	6.7	1.4	54	--	44	34
23...	31	--	--	--	--	--	--	--	--	--	--
27...	30	--	--	--	--	--	--	--	--	--	--
SEP.											
04...	25	--	--	--	--	--	--	--	--	--	--
19...	34	29	10	21	2.9	7.7	1.3	58	--	48	37

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
APR., 1974											
16...	--	--	--	--	--	--	--	--	193	--	6.5
23...	1.5	.3	.09	.03	115	119	65	21	173	7.9	4.0
MAY											
09...	--	--	--	--	--	--	--	--	183	--	9.5
12...	--	--	--	--	--	--	--	--	81	--	5.0
29...	.6	.0	.00	.06	61	60	30	7	80	7.5	7.0
JUNE											
12...	.6	.2	.02	.03	84	75	37	9	380	7.7	8.0
14...	--	--	--	--	--	--	--	--	102	--	8.0
JULY											
03...	.7	.1	.00	.04	109	108	54	15	148	7.7	12.5
24...	.5	.1	.03	.01	92	91	46	16	123	--	14.0
AUG.											
06...	--	--	--	--	--	--	--	--	125	--	11.0
20...	.9	.1	.01	.02	111	119	58	13	163	--	14.0
23...	--	--	--	--	--	--	--	--	169	--	9.5
27...	--	--	--	--	--	--	--	--	174	--	10.5
SEP.											
04...	--	--	--	--	--	--	--	--	178	--	12.0
19...	.1	.2	.00	.04	133	128	64	17	179	--	9.5

DATE	TURBIDITY (JTU)	DISSOLVED BORON (B) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
APR., 1974										
16...	8	--	15	1.5	91	95	100	--	--	--
23...	--	20	--	--	--	--	--	--	--	--
MAY										
09...	1200	--	46900	35500	--	--	--	--	--	--
12...	22	--	287	232	27	36	54	82	91	100
29...	28	7	105	26	83	93	94	97	100	--
JUNE										
12...	3	20	9	1.4	81	91	100	--	--	--
14...	4	--	10	1.6	96	98	100	--	--	--
JULY										
03...	1	10	4	.64	81	87	93	100	--	--
24...	49	10	100	16	99	99	100	--	--	--
AUG.										
06...	8	--	30	4.8	82	91	100	--	--	--
20...	3	20	11	1.3	71	100	--	--	--	--
23...	140	--	878	73	--	--	--	--	--	--
27...	2	--	21	1.7	41	62	81	100	--	--
SEP.										
04...	1	--	10	.68	64	100	--	--	--	--
19...	2	10	4	.37	97	100	--	--	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974--Continued

09344450 - NAVAJO RIVER BL OSO DIV DAM, NEAR CHROMO, CO. (LAT 37 31 48 LONG 106 44 16)

DATE	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	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)	DIS-SOLVED OXYGEN (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)
JUNE, 1974											
12...	.01	.01	.02	.02	.25	.27	.29	9.6	3	1.6	1

DATE	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
JUNE, 1974										
12...	100	0	0	1	100	0	.0	0	0	10

09346000 - NAVAJO RIVER AT EDITH, CO. (LAT 37 00 10 LONG 106 54 25)

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
NOV., 1973											
26...	35	24	20	32	7.2	11	1.8	87	0	71	46
MAR., 1974											
04...	12	23	40	30	6.5	9.8	1.6	76	0	62	54
APR.											
16...	60	--	--	--	--	--	--	--	--	--	--
23...	45	20	20	31	8.4	12	1.7	91	0	75	59
MAY											
09...	300	--	--	--	--	--	--	--	--	--	--
12...	350	--	--	--	--	--	--	--	--	--	--
29...	90	18	40	19	5.5	6.5	1.9	71	0	58	27
JUNE											
10...	43	21	20	23	6.2	8.1	2.2	69	3	62	33
14...	55	--	--	--	--	--	--	--	--	--	--
JULY											
03...	55	24	50	30	7.7	9.4	2.4	107	0	88	42
17...	73	25	50	30	8.3	11	2.4	97	0	80	49
24...	55	24	10	24	6.4	8.1	1.8	79	0	65	43
AUG.											
05...	55	--	--	--	--	--	--	--	--	--	--
20...	36	26	20	31	8.6	10	2.6	109	0	89	44
23...	31	--	--	--	--	--	--	--	--	--	--
27...	31	--	--	--	--	--	--	--	--	--	--
SEP.											
04...	27	--	--	--	--	--	--	--	--	--	--
19...	30	25	20	35	8.6	12	2.5	117	0	96	52

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974--Continued

09346000 - NAVAJO RIVER AT EDITH, CO. (LAT 37 00 10 LONG 106 54 25)

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO, PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
NOV., 1973											
26...	1.4	.2	.03	.08	180	167	110	38	385	8.0	.0
MAR., 1974											
04...	2.2	.3	.04	.04	167	165	100	39	240	8.4	.0
APR.											
16...	--	--	--	--	--	--	--	--	284	--	8.0
23...	1.5	1.3	.00	.02	198	180	110	37	280	8.0	5.5
MAY											
09...	--	--	--	--	--	--	--	--	183	--	13.0
12...	--	--	--	--	--	--	--	--	112	--	6.0
29...	.9	.1	.05	.07	119	114	70	12	182	7.8	13.0
JUNE											
10...	1.4	.2	.03	.06	141	132	83	21	199	8.8	20.0
14...	--	--	--	--	--	--	--	--	238	--	14.0
JULY											
03...	1.0	.2	.06	.05	157	170	110	19	258	8.1	19.0
17...	2.4	.2	.01	.05	182	176	110	30	262	8.0	15.0
24...	1.1	.1	.07	.03	141	148	86	21	212	7.8	19.0
AUG.											
05...	--	--	--	--	--	--	--	--	180	--	21.0
20...	.9	.2	.03	.05	178	177	110	21	270	7.9	13.5
23...	--	--	--	--	--	--	--	--	268	--	15.0
27...	--	--	--	--	--	--	--	--	264	--	10.5
SEP.											
04...	--	--	--	--	--	--	--	--	304	--	13.0
19...	1.7	.2	.00	.05	198	195	120	24	299	8.0	13.0

DATE	TUR-BID-ITY (JTU)	DIS-SOLVED BORON (B) (UG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
NOV., 1973										
26...	--	20	4	.38	--	--	--	--	--	--
MAR., 1974										
04...	--	20	59	1.9	--	--	--	--	--	--
APR.										
16...	14	--	21	3.4	97	100	--	--	--	--
23...	--	20	--	--	--	--	--	--	--	--
MAY										
09...	360	--	3740	3030	--	--	--	--	--	--
12...	63	--	4830	4560	--	--	--	--	--	--
29...	--	20	--	--	--	--	--	--	--	--
JUNE										
10...	6	30	44	5.1	42	53	71	98	100	--
14...	4	--	75	11	24	28	37	82	98	100
JULY										
03...	3	30	36	5.3	37	43	52	88	98	100
17...	20	30	99	20	55	70	85	100	--	--
24...	78	20	296	44	71	74	79	94	99	100
AUG.										
05...	27	--	107	16	60	68	79	97	100	--
20...	9	20	32	3.1	70	82	92	100	--	--
23...	177	--	358	30	99	99	100	--	--	--
27...	9	--	32	2.7	55	61	68	97	100	--
SEP.										
04...	5	--	28	2.0	42	45	51	86	95	100
19...	5	30	27	2.2	47	60	72	87	100	--

DATE	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	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)	DIS-SOLVED OXYGEN (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV., 1973										
26...	.03	.00	.03	.00	.11	.11	.14	11.2	5	1.9
MAR., 1974										
04...	.04	.00	.04	.03	.20	.23	.27	11.1	0	2.2
JUNE										
10...	.02	.01	.09	.01	.42	.43	.52	7.2	33	3.6
JULY										
17...	.01	.00	.04	.05	.22	.27	.31	7.0	330	4.8

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
07079500 - EAST FORK ARKANSAS RIVER NEAR LEADVILLE, CO. (LAT 39 15 35 LONG 106 20 24)												
OCT., 1973 30...	--	--	60	200	--	--	--	--	--	--	--	--
07083700 - ARKANSAS RIVER NEAR MALTA, CO. (LAT 39 10 08 LONG 106 19 25)												
OCT., 1973 29...	--	9.9	70	630	26	10	5.0	1.3	76	0	62	44
07137500 - ARKANSAS RIVER NEAR COOLIDGE, KANS. (LAT 38 01 34 LONG 102 00 41)												
JUNE, 1974 04...	44	8.3	30	30	130	52	140	6.1	157	0	129	590
09355000 - SPRING CREEK AT LA BOCA, COLORADO (LAT 37 00 46 LONG 107 35 42)												
MAY , 1974 03...	21	8.1	80	0	37	8.7	50	4.8	163	0	134	92
09363100 - SALT CREEK NEAR OXFORD, CO. (LAT 37 08 23 LONG 107 45 10)												
MAY , 1974 01...	.11	1.2	80	210	68	17	250	5.3	411	0	337	200
381254106044500 - KERBER C AB L KERBER C NR BONANZA, CO. (LAT 38 12 54 LONG 106 04 45)												
NOV., 1973 01...	--	17	20	3400	34	5.3	5.3	1.1	19	0	16	110
381500105565900 - KERBER C NR MOUTH AT VILLA GROVE, CO. (LAT 38 15 00 LONG 105 56 59)												
NOV., 1973 01...	--	--	170	2900	--	--	--	--	--	--	--	--
381533105550400 - SAN LUIS C BL KERBER C NR VILLA GROVE, CO (LAT 38 15 33 LONG 105 55 04)												
NOV., 1973 01...	--	--	60	1800	--	--	--	--	--	--	--	--
381735106083000 - COPPER GULCH AT MOUTH AT BONANZA, CO. (LAT 38 17 35 LONG 106 08 30)												
NOV., 1973 02...	--	--	20	310	--	--	--	--	--	--	--	--
381832106084800 - KERBER C AB SQUIRREL C NR BONANZA, CO. (LAT 38 18 32 LONG 106 08 48)												
NOV., 1973 02...	--	16	120	230	14	2.2	2.8	1.0	55	0	45	7.3
381900106083400 - SQUIRREL C AT WINTER STATION NR BONANZA,CO (LAT 38 19 00 LONG 106 08 34)												
NOV., 1973 02...	--	15	20	30	54	9.7	5.5	1.4	95	0	78	93
381915106093200 - KERBER C AB MOSQUITO C NR BONANZA, CO. (LAT 38 19 15 LONG 106 09 32)												
NOV., 1973 02...	--	--	90	30	--	--	--	--	--	--	--	--
381948106084700 - SQUIRREL C AB BEAR C NR BONANZA, CO. (LAT 38 19 48 LONG 106 08 47)												
NOV., 1973 02...	--	--	20	0	--	--	--	--	--	--	--	--
390618106175400 - ARKANSAS R AB TWOBIT GULCH NR GRANITE, CO. (LAT 39 06 18 LONG 106 17 54)												
OCT., 1973 29...	--	--	120	420	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO, PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO
07079500 - EAST FORK ARKANSAS RIVER NEAR LEADVILLE, CO. (LAT 39 15 35 LONG 106 20 24)												
OCT., 1973 30...	--	--	--	--	--	--	--	--	--	--	--	--
07083700 - ARKANSAS RIVER NEAR MALTA, CO. (LAT 39 10 08 LONG 106 19 25)												
OCT., 1973 29...	1.5	.0	.12	.04	.04	137	.19	--	110	44	9	.2
07137500 - ARKANSAS RIVER NEAR COOLIDGE, KANS. (LAT 38 01 34 LONG 102 00 41)												
JUNE, 1974 04...	41	.8	1.3	--	.06	1050	1.43	125	540	410	36	2.6
09355000 - SPRING CREEK AT LA BOCA, COLORADO (LAT 37 00 46 LONG 107 35 42)												
MAY , 1974 03...	8.9	.8	.17	--	.12	292	.40	16.6	130	0	45	1.9
09363100 - SALT CREEK NEAR OXFORD, CO. (LAT 37 08 23 LONG 107 45 10)												
MAY , 1974 01...	160	.7	.02	--	.01	905	1.23	--	240	0	69	7.0
381254106044500 - KERBER C AB L KERBER C NR BONANZA, CO. (LAT 38 12 54 LONG 106 04 45)												
NOV., 1973 01...	.4	.2	.04	.06	.05	190	.26	--	110	91	10	.2
381500105565900 - KERBER C NR MOUTH AT VILLA GROVE, CO. (LAT 38 15 00 LONG 105 56 59)												
NOV., 1973 01...	--	--	--	--	--	--	--	--	--	--	--	--
381533105550400 - SAN LUIS C BL KERBER C NR VILLA GROVE, CO (LAT 38 15 33 LONG 105 55 04)												
NOV., 1973 01...	--	--	--	--	--	--	--	--	--	--	--	--
381735106083000 - COPPER GULCH AT MOUTH AT BONANZA, CO. (LAT 38 17 35 LONG 106 08 30)												
NOV., 1973 02...	--	--	--	--	--	--	--	--	--	--	--	--
381832106084800 - KERBER C AB SQUIRREL C NR BONANZA, CO. (LAT 38 18 32 LONG 106 08 48)												
NOV., 1973 02...	.9	.0	.01	.06	.06	72	.10	--	44	0	12	.2
381900106083400 - SQUIRREL C AT WINTER STATION NR BONANZA,CO (LAT 38 19 00 LONG 106 08 34)												
NOV., 1973 02...	.4	.0	.01	.07	.05	227	.31	--	170	97	6	.2
381915106093200 - KERBER C AB MOSQUITO C NR BONANZA, CO. (LAT 38 19 15 LONG 106 09 32)												
NOV., 1973 02...	--	--	--	--	--	--	--	--	--	--	--	--
381948106084700 - SQUIRREL C AB BEAR C NR BONANZA, CO. (LAT 38 19 48 LONG 106 08 47)												
NOV., 1973 02...	--	--	--	--	--	--	--	--	--	--	--	--
390618106175400 - ARKANSAS R AB TWOBIT GULCH NR GRANITE, CO. (LAT 39 06 18 LONG 106 17 54)												
OCT., 1973 29...	--	--	--	--	--	--	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974--Continued

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TOTAL ARSENIC (AS) (UG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
07079500 - EAST FORK ARKANSAS RIVER NEAR LEADVILLE, CO. (LAT 39 15 35 LONG 106 20 24)											
OCT., 1973 30...	--	--	1.5	--	--	1	2	0	1	--	590
07083700 - ARKANSAS RIVER NEAR MALTA, CO. (LAT 39 10 08 LONG 106 19 25)											
OCT., 1973 29...	250	7.8	6.0	--	--	3	9	4	5	--	690
07137500 - ARKANSAS RIVER NEAR COOLIDGE, KANS. (LAT 38 01 34 LONG 102 00 41)											
JUNE, 1974 04...	1480	7.7	24.0	--	--	--	--	--	--	--	--
09355000 - SPRING CREEK AT LA BOCA, COLORADO (LAT 37 00 46 LONG 107 35 42)											
MAY , 1974 03...	485	7.7	20.0	4	60	--	--	--	--	2	--
09363100 - SALT CREEK NEAR OXFORD, CO. (LAT 37 08 23 LONG 107 45 10)											
MAY , 1974 01...	1530	8.0	--	1	40	--	--	--	--	25	--
381254106044500 - KERBER C AB L KERBER C NR BONANZA, CO. (LAT 38 12 54 LONG 106 04 45)											
NOV., 1973 01...	279	7.2	4.5	--	--	11	26	6	14	--	3600
381500105565900 - KERBER C NR MOUTH AT VILLA GROVE, CO. (LAT 38 15 00 LONG 105 56 59)											
NOV., 1973 01...	--	--	4.0	--	--	6	24	7	8	--	3000
381533105550400 - SAN LUIS C BL KERBER C NR VILLA GROVE, CO (LAT 38 15 33 LONG 105 55 04)											
NOV., 1973 01...	--	--	5.0	--	--	4	11	0	6	--	1600
381735106083000 - COPPER GULCH AT MOUTH AT BONANZA, CO. (LAT 38 17 35 LONG 106 08 30)											
NOV., 1973 02...	--	--	1.5	--	--	3	12	0	5	--	1100
381832106084800 - KERBER C AB SQUIRREL C NR BONANZA, CO. (LAT 38 18 32 LONG 106 08 48)											
NOV., 1973 02...	105	7.9	.0	--	--	1	13	9	7	--	240
381900106083400 - SQUIRREL C AT WINTER STATION NR BONANZA,CO (LAT 38 19 00 LONG 106 08 34)											
NOV., 1973 02...	360	7.9	3.0	--	--	1	8	7	5	--	500
381915106093200 - KERBER C AB MOSQUITO C NR BONANZA, CO. (LAT 38 19 15 LONG 106 09 32)											
NOV., 1973 02...	--	--	1.0	--	--	1	2	1	4	--	20
381948106084700 - SQUIRREL C AB BEAR C NR BONANZA, CO. (LAT 38 19 48 LONG 106 08 47)											
NOV., 1973 02...	--	--	.0	--	--	0	1	4	1	--	20
390618106175400 - ARKANSAS R AB TWOBIT GULCH NR GRANITE, CO. (LAT 39 06 18 LONG 106 17 54)											
OCT., 1973 29...	--	--	5.0	--	--	2	9	1	6	--	560

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974--Continued

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
391321106211700 - ARKANSAS R AT MALTA, CO. (LAT 39 13 21 LONG 106 21 17)												
OCT., 1973												
29...	--	--	50	70	--	--	--	--	--	--	--	--
29...	--	--	50	70	--	--	--	--	--	--	--	--
391550106202500 - TENNESSEE C NR LEADVILLE, CO. (LAT 39 15 50 LONG 106 20 25)												
OCT., 1973												
30...	--	--	100	0	--	--	--	--	--	--	--	--
391709106164600 - E F ARKANSAS R AT HWY 91 NR LEADVILLE, CO. (LAT 39 17 09 LONG 106 16 46)												
OCT., 1973												
30...	--	5.5	80	20	23	9.8	2.0	1.0	106	1	89	16
391906106201300 - TENNESSEE C AB LONGS GL NR LEADVILLE, CO. (LAT 39 19 06 LONG 106 20 13)												
OCT., 1973												
30...	--	7.9	160	0	6.8	2.4	2.2	.9	33	0	27	4.6

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974--Continued

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO
391321106211700 - ARKANSAS R AT MALTA, CO. (LAT 39 13 21 LONG 106 21 17)												
OCT., 1973												
29...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
391550106202500 - TENNESSEE C NR LEADVILLE, CO. (LAT 39 15 50 LONG 106 20 25)												
OCT., 1973												
30...	--	--	--	--	--	--	--	--	--	--	--	--
391709106164600 - E F ARKANSAS R AT HWY 91 NR LEADVILLE, CO. (LAT 39 17 09 LONG 106 16 46)												
OCT., 1973												
30...	.9	.3	.08	.02	.02	112	.15	--	98	9	4	.1
391906106201300 - TENNESSEE C AB LONGS GL NR LEADVILLE, CO. (LAT 39 19 06 LONG 106 20 13)												
OCT., 1973												
30...	.6	.0	.01	.04	.03	42	.06	--	27	0	15	.2

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974--Continued

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TOTAL ARSENIC (AS) (UG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
391321106211700 - ARKANSAS R AT MALTA, CO. (LAT 39 13 21 LONG 106 21 17)											
OCT., 1973											
29...	--	--	--	--	--	1	2	4	3	--	240
29...	--	--	--	--	--	1	2	4	3	--	240
391550106202500 - TENNESSEE C NR LEADVILLE, CO. (LAT 39 15 50 LONG 106 20 25)											
OCT., 1973											
30...	--	--	.5	--	--	0	2	1	2	--	30
391709106164600 - E F ARKANSAS R AT HWY 91 NR LEADVILLE, CO. (LAT 39 17 09 LONG 106 16 46)											
OCT., 1973											
30...	201	8.4	2.5	--	--	0	3	1	5	--	20
391906106201300 - TENNESSEE C AB LONGS GL NR LEADVILLE, CO. (LAT 39 19 06 LONG 106 20 13)											
OCT., 1973											
30...	64	7.1	1.5	--	--	0	3	2	2	--	30

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