

1972

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 1972

OCTOBER 1971

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

NOVEMBER 1971

S	M	T	W	T	F	S
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DECEMBER 1971

S	M	T	W	T	F	S
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5	6	7	8	9	10	11
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JANUARY 1972

S	M	T	W	T	F	S
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2	3	4	5	6	7	8
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FEBRUARY 1972

S	M	T	W	T	F	S
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6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
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MARCH 1972

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
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APRIL 1972

S	M	T	W	T	F	S
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30						

MAY 1972

S	M	T	W	T	F	S
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7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

JUNE 1972

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

JULY 1972

S	M	T	W	T	F	S
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2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

AUGUST 1972

S	M	T	W	T	F	S
	1	2	3	4	5	
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

SEPTEMBER 1972

S	M	T	W	T	F	S
						1
						2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

1972

Water Resources Data

for

Colorado

Part 2. Water Quality Records



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GEOLOGICAL SURVEY

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

Prepared in cooperation with
Colorado Water Conservation Board
Bureau of Reclamation, U.S. Department of the Interior
Environmental Protection Agency

Water resources records, 1972, 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

*[Letters after station name designate type of data:
(C), chemical; (P) Pesticide; (R), radiochemical;
(S), sediment; (T), temperature]*

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Water Resources Data for Colorado, 1972

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 and physical characteristics of surface- and ground-water supplies of the Nation. These water quality data for surface waters in Colorado for the 1972 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 Water Resources Division of the U.S. Geological Survey under the direction of J. E. Biesecker, district chief, Water Resources Division.

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 coincides 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 as follows:

Acre-foot (ac-ft) is a quantity of water required to cover 1 acre to a depth of 1 foot and is equal to 43,560 cubic feet or 325,851 gallons.

Cfs-days is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It equals 86,400 cubic feet, 1.9835 acre-feet, or 646,317 gallons.

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.

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

Discharge, in its simplest concept, means outflow; therefore, the use of this term is not restricted to course or location. In this report, it represents the total fluids measured in the stream.

Daily mean discharge is the mean discharge for one day.

Mean daily discharge is the arithmetic mean discharge for the same day during a specific period of years.

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

Instantaneous discharge (at time of sampling). If the discharge at the time of sampling is reported instead of the daily mean, the heading of the discharge column is "Discharge (cfs)."

Drainage area of a stream at a specified location is that area, measured in 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.

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

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

Hardness of water is the physical-chemical characteristics attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate (CaCO_3).

Micrograms per liter ($\mu\text{g/l}$, UG/L) is a more precise unit for expressing the concentration of chemical constituents in solution. One thousand micrograms per liter is equivalent to one milligram per liter. See below.

Milligrams per liter (mg/l , MG/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the weight of solute per unit volume of water. Milligrams or micrograms per liter may be converted to milliequivalents (one thousandths of a gram-equivalent weight of a constituent) per liter by multiplying by the factors in table 1, page 4. Concentration of suspended sediment also is expressed in mg/l , and is based on the weight of sediment per liter of water-sediment mixture. Sediment concentrations may be converted to parts per million by using the factors in table 2, page 5.

Particle size is the diameter, in millimeters (mm) of suspended sediment or bed material determined by sieve and sedimentation methods.

Particle size classification agrees closely with recommendations made by the American Geophysical Union Subcommittee on sediment terminology (Lane and others, 1947, p. 937). The classification is as follows:

Clay:	Smaller than 0.004 mm.
Silt:	Between 0.004 and 0.062 mm.
Sand:	Between 0.062 and 2.0 mm.
Gravel:	Between 2.0 and 64.0 mm.

The particle size distributions given in this report are not necessarily representative of the particle sizes of sediment in transport in the natural stream. Most of the organic matter is removed and the sample is subjected to mechanical and chemical dispersion before analysis of the silt and clay.

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

<u>Ion</u>	<u>Multi- ply by</u>	<u>Ion</u>	<u>Multi- ply by</u>
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

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

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

Range of concentration in 1000 mg/l	Di- vide by	Range of concentration in 1000 mg/l	Di- vide by	Range of concentration in 1000 mg/l	Di- vide by	Range of concentration in 1000 mg/l	Di- vide by
0 - 8	1.00	201-217	1.13	411-424	1.26	619-634	1.39
8.05- 24	1.01	218-232	1.14	427-440	1.27	636-650	1.40
24.2 - 40	1.02	234-248	1.15	443-457	1.28	652-666	1.41
40.5 - 56	1.03	250-264	1.16	460-473	1.29	668-682	1.42
56.5 - 72	1.04	266-280	1.17	476-489	1.30	684-698	1.43
72.5 - 88	1.05	282-297	1.18	492-506	1.31	700-715	1.44
88.5 -104	1.06	299-313	1.19	508-522	1.32	717-730	1.45
105 -120	1.07	315-329	1.20	524-538	1.33	732-747	1.46
121 -136	1.08	331-345	1.21	540-554	1.34	749-762	1.47
137 -152	1.09	347-361	1.22	556-570	1.35	765-780	1.48
153 -169	1.10	363-378	1.23	572-585	1.36	782-796	1.49
170 -185	1.11	380-393	1.24	587-602	1.37	798-810	1.50
186 -200	1.12	395-409	1.25	604-717	1.38		

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

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 (Colby and Hembree, 1955).

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

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

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

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

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimeter at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. The following general relations are applicable:

Specific conductance X (0.65±0.05) = mg/l dissolved solids;

$$\frac{\text{Specific conductance}}{100} = \frac{\text{total epm}}{2}$$

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 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per liter by 0.00136.

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

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, 1972, is called the "1972 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."

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 name. 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.

COLLECTION AND EXAMINATION OF DATA

Samples of surface water ordinarily were obtained at or near gaging stations because water-discharge data are essential for computation and interpretation of water-quality records. Samples taken daily were taken by local observers trained and supervised by personnel of the Geological Survey. Samples taken less frequently than daily generally were taken by Geological Survey personnel or by personnel of cooperating agencies. The map (figure 1) shows the location of the surface-water stations sampled in 1972.

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 to use the metric system; data for chemical constituents and concentrations of suspended sediment are now reported in milligrams per liter (mg/l) and water temperatures are given in degrees Celsius (centigrade, °C). In waters with a density of 1.00 g/ml (grams per milliliter), parts per million and milligrams per liter can be considered equal. In waters with a density greater than 1.00 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per liter. (See table 2 on page 6.) To convert temperature in degrees Fahrenheit to degrees Celsius, see table 3 below.

Table 3.--Degrees Fahrenheit (°F) to degrees Celsius (°C)*
(Temperature reported to nearest 0.5°C)

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

$$^{\circ}\text{C} = 5/9 (^{\circ}\text{F} - 32) \text{ or } ^{\circ}\text{F} = 9/5 (^{\circ}\text{C}) + 32.$$

Solutes

The methods of collecting water samples and of compositing daily samples prior to laboratory analysis are described in a manual by Eugene Brown and others (1970). No single method of compositing of daily samples is applicable for all water-quality stations; the method used depends on the type of water problem being studied at the station. Generally, only samples having similar dissolved-solids content, indicated by measurements of conductivity, are included in any given composite. At sites where water-quality data were collected less frequently than daily, the data may represent conditions only at the time of sampling. For such sites, however, observations obtained over a period of years show relations that are useful in predicting the long-term water-quality characteristics.

Temperature

Water temperatures were measured at most of the water-quality stations. For daily stations, the water temperatures were taken at about the same time each day in order that the data would be relatively unaffected by diurnal variations in water temperature. Most large swiftly flowing streams probably have a small diurnal variation in water temperature, whereas sluggish or shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. The thermometers used for determining the water temperature were accurate to plus or minus 0.5°C.

At stations where thermographs are located, the records consist of maximum and minimum temperatures for each day and the monthly averages of maximum daily and minimum daily temperatures.

Sediment

Suspended-sediment samples generally were collected periodically with depth-integrating cable-suspended or hand samples at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

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

ADDITIONAL WATER QUALITY DATA

During the 1972 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:

Bingham, D. L., and Klein, J. M., late 1973, Water-level declines and groundwater quality, upper Black Squirrel Creek basin, Colorado: Colorado Water Conserv. Board Water Resources Circ. 23.

Bingham, D. L., and Klein, J. M., late 1974, Hydrologic data for the upper Arkansas River basin, Colorado: Colorado Water Conserv. Board Basic-Data Release.

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PLATTE RIVER BASIN

15

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 gaging station 350 ft downstream from bridge on State Highway 125, 0.8 mile upstream from Camp Creek, 4.2 miles northwest of Northgate, and 4.4 miles south of Colorado-Wyoming State line.

DRAINAGE AREA.--1,431 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1965 to September 1972.

Water temperatures: October 1965 to September 1966, June 1971 to September 1972.

EXTREMES.--June 1971 to September 1972:

Water temperatures: Maximum, 22.0°C Aug. 15, 25, 1971, July 29, Aug. 13, 1972; minimum, freezing point on many days during September 1971 to April 1972.

REMARKS.--Thermograph records furnished by Wyoming Game and Fish Commission.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	ALKA- LINITY AS CACO ₃ (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
NOV. 30...	165	14	150	30	6.8	13	1.3	122	0	100	24	1.5
DEC. 20...	54	14	180	31	5.7	13	1.8	129	0	106	20	2.1
JAN. 21...	76	13	120	28	6.2	13	1.6	120	0	98	22	1.7
FEB. 25...	120	13	240	32	8.9	16	3.6	135	0	111	35	4.2
MAR. 23...	474	8.9	470	29	6.7	17	2.6	110	0	90	40	3.4
MAY 24...	644	11	250	30	2.8	15	2.1	104	0	85	31	2.6
JUNE 12...	2440	15	350	33	4.9	14	2.8	138	0	113	20	2.0
JULY 13...	867	11	90	45	13	22	1.6	212	0	174	30	2.7
AUG. 16...	112	5.6	180	27	10	12	1.6	128	0	105	21	5.0

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITU- ENTS) (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)	TEMPER- ATURE (DEG C)	DIS- SOLVED BORON (B) (UG/L)
NOV. 30...	.5	164	151	73.1	.22	100	0	.6	262	7.7	.0	30
DEC. 20...	.5	158	152	23.0	.21	100	0	.6	255	7.5	.0	30
JAN. 21...	.5	142	146	29.1	.19	95	0	.6	240	7.5	.0	10
FEB. 25...	.4	182	180	59.0	.25	120	9	.6	294	7.4	.0	30
MAR. 23...	.5	170	163	218	.23	100	10	.7	276	7.9	2.0	20
MAY 24...	.4	156	147	271	.21	85	0	.7	235	7.9	13.0	50
JUNE 12...	.5	160	161	1050	.22	100	0	.6	267	7.7	9.0	60
JULY 13...	.6	240	231	562	.33	160	0	.7	386	8.0	15.5	60
AUG. 16...	.5	128	146	38.7	.17	110	5	.5	246	8.1	14.0	20

PLATTE RIVER BASIN

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

TEMPERATURE (°C) OF WATER, MAY 1971 TO SEPTEMBER 1972

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	18.5	14.0	21.0	12.0	21.0	13.5
2	---	---	---	---	---	---	18.5	15.0	18.5	13.0	19.5	13.0
3	---	---	---	---	---	---	19.0	15.0	18.5	11.0	15.0	10.0
4	---	---	---	---	---	---	18.5	15.0	19.0	14.5	12.0	8.5
5	---	---	---	---	14.5	9.5	19.5	15.0	20.5	14.0	15.0	7.0
6	---	---	10.5	6.5	15.5	10.5	18.0	15.5	21.0	14.0	17.0	8.5
7	---	---	10.0	6.0	17.0	10.5	19.0	14.5	21.0	14.0	14.0	11.0
8	---	---	9.0	6.5	17.0	13.0	19.0	15.5	20.0	13.5	16.0	10.0
9	---	---	9.0	6.5	16.0	13.0	18.5	15.0	19.0	14.0	18.0	10.0
10	---	---	10.0	5.0	15.0	11.0	19.0	15.0	20.0	13.5	18.5	10.5
11	---	---	12.0	5.5	15.0	11.0	20.0	15.0	18.5	14.0	19.0	11.0
12	---	---	---	---	14.5	11.0	20.0	14.5	20.0	14.5	19.5	11.5
13	---	---	---	---	16.5	11.0	21.0	15.5	21.0	13.5	18.0	8.5
14	---	---	---	---	18.0	13.5	20.5	16.5	21.5	14.0	16.5	5.5
15	---	---	---	---	18.5	14.5	21.0	15.5	22.0	14.0	19.0	0.0
16	---	---	---	---	18.5	14.5	21.5	16.0	20.5	14.5	11.5	0.0
17	---	---	---	---	18.0	15.0	20.5	16.5	20.5	14.0	1.0	0.0
18	---	---	---	---	16.5	14.5	20.5	17.0	20.5	15.0	10.0	0.0
19	---	---	---	---	18.5	14.0	18.5	15.5	20.5	13.5	10.0	1.0
20	---	---	---	---	19.0	15.5	20.0	14.5	20.5	14.5	8.0	4.0
21	---	---	---	---	20.0	15.5	19.0	16.0	19.5	13.5	6.5	4.0
22	---	---	---	---	20.5	16.5	19.0	15.0	21.0	13.5	10.0	3.5
23	---	---	---	---	20.0	16.5	19.5	14.5	20.0	14.5	11.5	4.5
24	---	---	---	---	20.5	17.0	18.0	14.5	20.5	13.5	13.0	5.5
25	---	---	---	---	20.0	16.0	18.0	14.0	22.0	14.0	13.0	6.0
26	---	---	---	---	19.5	16.0	18.5	14.0	19.5	15.5	13.0	7.0
27	---	---	---	---	19.0	16.0	18.5	14.0	20.0	15.0	12.0	6.0
28	---	---	---	---	19.0	15.5	18.5	13.0	20.0	15.0	11.5	5.5
29	---	---	---	---	18.0	15.0	18.5	13.5	19.5	15.0	10.0	4.5
30	---	---	---	---	17.0	14.0	19.0	11.5	20.0	14.0	13.5	7.0
31	---	---	---	---	---	---	19.5	13.5	20.5	13.5	---	---
DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	6.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	9.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	9.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	11.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	12.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	13.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	10.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	11.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	11.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	10.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	8.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	10.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	9.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	9.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	8.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	6.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	5.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0
22	8.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	1.0
23	6.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.5
24	6.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0
25	9.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	1.0
26	6.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	1.0
27	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0
28	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	0.0	0.0
31	0.5	0.0	---	---	0.0	0.0	0.0	0.0	---	---	1.0	0.0

PLATTE RIVER BASIN

17

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

TEMPERATURE (°C) OF WATER, MAY 1971 TO SEPTEMBER 1972

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.0	0.0	8.5	3.5	16.0	13.0	20.5	14.0	19.5	14.0	16.0	12.0
2	4.0	1.0	10.0	3.5	17.0	13.0	19.5	14.0	16.5	14.0	15.0	10.5
3	8.0	0.5	11.0	5.0	16.0	13.5	20.0	12.0	19.0	11.5	15.5	11.0
4	7.0	1.5	13.0	6.0	16.0	13.0	20.0	12.0	19.5	12.0	15.5	9.5
5	9.0	3.0	11.5	8.5	15.5	13.0	---	13.0	19.5	14.0	14.0	11.0
6	7.0	4.5	9.5	6.5	16.5	12.0	---	---	21.0	13.0	13.0	10.5
7	8.5	2.0	7.0	5.0	18.5	14.0	---	---	20.0	13.0	14.5	11.0
8	10.5	4.0	10.5	6.5	16.5	14.0	---	---	19.5	14.5	18.0	10.0
9	10.0	4.0	10.5	8.0	15.5	12.0	---	---	22.0	13.5	15.5	10.5
10	9.0	4.5	10.5	8.0	19.5	13.5	---	---	20.0	13.0	14.5	10.5
11	8.5	5.5	10.5	8.0	19.5	15.0	---	---	20.5	14.0	15.0	9.0
12	8.5	4.0	9.0	6.0	19.5	15.5	---	---	20.5	13.0	16.5	10.0
13	8.0	3.5	10.0	5.0	18.0	15.0	---	---	22.0	13.5	16.5	9.5
14	6.5	3.0	13.5	6.0	17.0	13.5	---	---	19.0	14.0	16.5	9.0
15	6.5	2.0	14.5	8.5	18.5	15.0	---	---	20.5	15.0	16.0	8.5
16	10.5	3.5	16.0	9.5	18.0	15.0	---	---	20.5	13.5	15.0	8.5
17	11.0	5.5	15.0	11.0	17.0	14.5	---	---	18.5	13.0	15.5	8.0
18	9.0	5.0	14.5	10.0	17.0	14.0	---	---	20.0	13.5	15.0	8.5
19	7.0	3.5	13.0	10.0	15.5	13.5	---	---	17.0	14.5	13.0	10.5
20	6.5	3.5	13.5	9.0	18.0	14.0	---	---	19.0	13.0	14.0	8.5
21	8.5	3.0	14.5	9.5	17.0	13.5	---	---	18.5	11.5	13.5	6.0
22	9.0	4.0	11.5	9.5	16.5	14.0	---	---	17.0	11.0	14.0	7.0
23	10.5	3.5	12.0	8.0	18.0	14.0	---	---	15.0	10.0	13.5	8.5
24	11.5	5.0	13.5	8.0	18.0	13.5	---	---	14.0	9.0	12.0	6.5
25	11.5	6.5	14.5	9.0	18.5	14.5	---	---	15.5	8.5	11.0	7.0
26	9.0	3.0	15.0	10.0	18.0	14.0	---	---	17.0	11.0	9.5	4.5
27	4.0	1.0	14.5	10.5	18.5	14.0	---	---	19.0	11.0	12.0	5.5
28	7.0	2.0	15.0	10.5	19.5	13.5	20.5	13.0	19.0	12.0	11.5	6.5
29	10.5	3.5	15.0	10.5	19.0	14.5	22.0	13.0	16.5	14.0	11.0	5.5
30	10.5	5.5	16.0	10.5	20.0	14.5	20.5	14.5	18.5	11.0	13.0	5.0
31	---	---	16.5	11.5	---	---	19.5	15.5	16.5	12.0	---	---

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
OCT.					
06...	1340	8.5	143	19	7.3
NOV.					
30...	1200	.0	165	8	3.6
DEC.					
20...	1520	.0	54	12	1.7
JAN.					
21...	1730	.0	76	8	1.6
FEB.					
25...	1200	.0	120	6	1.9
MAR.					
23...	1700	2.0	474	47	60
MAY					
24...	1940	13.0	644	48	83
JUNE					
12...	1645	9.0	2440	44	290
JULY					
13...	0900	15.5	867	9	21
AUG.					
16...	0830	14.0	112	4	1.2

PLATTE RIVER BASIN

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 downstream from Crestline Avenue Bridge at Littleton and 3.1 miles upstream from Bear Creek.

DRAINAGE AREA.--3,069 sq mi.

PERIOD OF RECORD.--Water temperatures: April 1970 to September 1972.

EXTREMES, 1971-72.--Water temperatures: Maximum, 25°C July 26, 27, Aug. 15; minimum, 1°C on many days during December to March.

Period of record.--Water temperatures: Maximum, 25°C July 17, 1971, July 26, 27, Aug. 15, 1972; minimum, freezing point on many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2)	DIS-SOLVED IRON (FE)	DIS-SOLVED MAN- GANESE (MN)	DIS-SOLVED CAL- CIUM (CA)	DIS-SOLVED MAG- NE- SIUM (MG)	DIS-SOLVED SODIUM (NA)	DIS-SOLVED PO- TAS- SIUM (K)	BICAR- BONATE (HCO3)	CAR- BONATE (CO3)	ALKA- LITY AS CACO3
		(MG/L)	(UG/L)	(UG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)
APR. 24...	93	9.4	30	25	45	14	36	2.7	137	0	112
DATE	DIS-SOLVED SULFATE (SO4)	DIS-SOLVED CHLO- RIDE (CL)	DIS-SOLVED FLUO- RIDE (F)	DIS-SOLVED NITRITE PLUS NITRATE (N)	DIS-SOLVED ORTHO. PHOS- PHORUS (P)	DIS-SOLVED SOLIDS (SUM OF CONSTI- TUENTS)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG)	NON-CAR- BONATE HARD- NESS	PERCENT SODIUM
APR. 24...	75	44	.8	.71	.010	298	.41	74.8	170	58	31
DATE	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH	TEMPER- ATURE (DEG C)	DIS-SOL- VED OR- GANIC CARBON (C)	DIS-SOLVED ARSENIC (AS)	DIS-SOLVED CAD- MIUM (CD)	DIS-SOLVED COPPER (CU)	DIS-SOLVED LEAD (PB)	DIS-SOLVED ZINC (ZN)	
APR. 24...	1.2	513	7.9	16.5	1.5	0	0	2	0	7	

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	ALDRIN (UG/L)	CHLDR- DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- ELDRIN (UG/L)
APR. 24...	93	16.5	.00	.0	.00	.00	.00	.00
	ENDRIN	HEPTA- CHLOR	HEPTA- CHLOR EPDXIDE	LINDANE	2,4-D	2,4,5-T	SILVEX	
DATE	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	
APR. 24...	.00	.00	.00	.00	.00	.00	.00	.00

PLATTE RIVER BASIN

19

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

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	11.5	8.5	3.5	5.0	4.0	4.5	3.0	6.0	5.5	10.5	9.5
2	12.0	8.5	7.0	4.0	6.0	4.0	4.5	3.0	6.0	5.5	10.5	8.0
3	12.5	8.5	8.0	4.0	5.5	4.0	3.5	3.5	5.5	5.0	10.5	9.0
4	13.5	9.0	11.0	4.0	5.5	3.5	4.5	2.5	5.0	4.5	10.5	9.5
5	13.5	9.5	8.5	4.0	4.5	3.0	2.5	2.5	6.0	5.5	9.5	8.0
6	14.5	10.0	8.0	3.0	5.5	4.0	2.5	2.0	7.0	6.0	10.5	9.0
7	14.0	10.0	8.0	2.5	4.5	3.5	3.0	2.5	7.5	5.5	11.0	10.0
8	13.5	11.0	7.0	3.5	4.5	4.0	3.5	2.5	6.5	4.5	10.0	9.5
9	14.0	9.5	6.0	3.0	5.5	3.0	3.5	3.0	7.0	6.5	12.0	9.5
10	14.0	10.0	9.5	3.0	4.5	3.0	4.5	3.5	7.0	6.5	12.5	10.0
11	14.0	9.5	7.0	4.5	4.5	3.0	4.5	3.5	7.0	6.5	12.5	11.0
12	13.5	10.0	9.0	5.0	4.5	3.0	4.5	4.0	7.5	6.5	13.0	11.5
13	13.0	9.0	8.0	4.0	4.0	3.5	4.5	4.0	7.5	6.5	13.0	11.5
14	13.0	9.5	8.0	3.5	4.0	3.0	4.5	4.5	8.0	7.0	12.0	11.5
15	13.0	10.0	6.5	3.5	4.0	3.0	4.5	4.0	7.5	7.0	12.0	10.5
16	11.5	9.5	8.0	5.5	4.0	2.5	4.0	3.0	7.5	7.0	12.0	11.0
17	12.0	10.0	6.0	4.0	4.5	2.5	4.0	3.0	8.0	7.5	13.0	11.5
18	11.0	7.5	5.5	2.0	4.5	3.0	4.0	3.5	8.5	7.5	13.5	12.0
19	11.0	6.5	5.0	1.0	4.5	4.0	5.0	4.0	8.5	7.5	13.5	12.0
20	10.5	6.5	6.5	2.5	5.0	3.5	5.5	4.5	9.0	8.0	13.0	12.0
21	11.0	8.0	7.0	3.0	5.0	3.5	5.5	5.0	9.0	8.5	12.5	10.5
22	10.5	8.5	5.5	4.0	5.0	3.5	5.0	4.5	9.0	8.0	13.5	11.0
23	10.5	8.5	4.5	3.0	6.0	4.0	6.0	4.5	9.0	8.5	13.0	12.0
24	10.5	8.5	6.5	2.0	5.5	5.0	6.0	5.5	9.5	8.0	12.5	10.5
25	11.0	9.0	6.5	3.5	6.0	5.0	5.5	4.5	9.5	8.5	15.5	9.5
26	11.0	9.0	6.0	3.5	7.0	5.0	5.5	5.5	8.5	7.5	16.0	10.0
27	10.0	8.5	6.5	3.5	6.5	5.5	5.5	4.5	8.5	8.0	11.5	9.0
28	10.0	7.0	6.5	4.0	5.5	4.0	4.5	4.0	10.0	8.0	11.5	5.0
29	7.0	3.5	5.5	3.0	5.0	4.0	4.5	4.0	10.5	9.0	12.0	5.0
30	7.5	1.5	5.5	2.5	4.5	3.5	4.5	4.0	---	---	13.0	5.0
31	8.0	2.5	---	---	4.0	3.0	6.0	4.0	---	---	12.5	8.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	7.0	17.0	7.5	20.0	15.0	17.0	15.5	21.5	17.0	21.5	20.0
2	13.0	8.5	18.5	8.5	20.0	15.5	16.5	14.0	21.5	18.0	19.0	18.0
3	12.5	8.0	20.0	9.5	19.0	14.5	14.0	12.5	20.0	19.0	18.5	18.0
4	15.0	7.5	21.0	10.5	18.5	14.0	13.0	12.0	20.0	19.0	19.0	18.0
5	15.5	10.0	14.5	11.5	17.0	15.0	17.0	11.0	23.0	19.0	19.0	18.5
6	17.0	10.5	11.5	10.5	17.5	14.5	17.5	14.5	21.0	19.0	19.0	18.0
7	17.0	10.0	13.0	9.5	18.5	13.5	18.0	13.5	21.5	20.5	19.0	17.5
8	18.0	11.5	16.0	11.0	20.5	15.0	19.0	13.5	22.0	21.0	19.0	18.0
9	17.5	11.5	15.5	12.0	21.0	15.5	18.5	14.5	21.0	20.0	19.5	19.0
10	16.5	11.5	14.5	12.5	20.5	14.5	19.5	14.5	21.0	20.5	19.5	19.0
11	18.0	11.5	13.5	12.5	21.5	15.5	20.5	15.0	21.0	20.0	20.0	19.0
12	17.5	12.5	13.0	12.0	23.5	16.5	21.5	15.0	21.5	20.5	20.0	19.5
13	16.5	10.5	12.5	12.0	19.5	16.0	22.5	17.0	22.5	20.0	20.0	19.0
14	13.5	9.0	13.0	12.0	20.5	14.5	22.5	16.5	24.0	20.0	20.0	19.0
15	13.5	8.5	15.5	12.5	22.0	15.0	21.5	17.5	25.0	20.5	20.5	18.5
16	17.5	8.5	21.5	13.0	20.0	15.5	21.5	16.5	24.5	21.0	20.5	18.0
17	17.0	9.5	18.5	13.0	17.0	14.5	18.0	15.5	21.5	21.0	20.0	16.5
18	14.0	11.0	17.0	12.5	17.0	13.5	18.5	13.5	21.5	21.0	20.0	17.0
19	11.5	9.0	16.0	12.0	18.5	14.5	21.0	15.5	22.0	21.0	19.5	17.5
20	11.5	8.5	16.0	12.5	17.0	13.5	20.5	17.0	22.0	21.0	19.0	16.5
21	15.5	7.5	19.0	13.5	18.5	13.5	21.5	16.0	22.0	21.0	20.5	16.5
22	17.5	9.0	17.5	13.5	20.0	14.5	23.0	16.0	21.5	21.0	21.5	15.0
23	18.5	9.5	16.5	12.0	19.5	14.5	24.0	16.5	21.5	21.0	19.0	15.5
24	18.0	13.5	19.0	12.0	21.5	14.0	23.0	18.5	21.0	20.5	18.0	14.5
25	18.0	10.0	17.0	13.0	22.5	15.0	22.5	18.5	20.5	19.5	17.5	15.0
26	12.0	7.0	19.0	13.5	21.0	15.5	25.0	18.0	21.0	20.0	16.0	14.5
27	11.0	6.0	17.5	14.0	19.5	15.0	25.0	18.5	21.5	20.5	16.5	13.0
28	15.5	7.5	18.0	13.5	16.0	14.0	23.5	19.0	21.5	21.0	17.0	13.5
29	16.0	8.5	17.0	14.0	16.0	15.5	23.0	19.0	21.5	21.5	16.5	14.0
30	15.0	9.0	18.5	13.0	16.0	16.0	22.5	18.0	21.5	21.0	16.5	13.0
31	---	---	19.5	14.0	---	---	21.5	17.5	21.5	21.0	---	---

PLATTE RIVER BASIN

06720500 SOUTH PLATTE RIVER AT HENDERSON, COLO.

LOCATION.--Lat 39°55'19", long 104°52'00", in SE¼NE¼ sec.34, T.1 S., R.67 W., Adams County, at gaging station on right bank 500 ft upstream from bridge on State Highway 22 and 0.2 mile northwest of Henderson.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA (NH4) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)				
OCT. 20...	219	84	18	110	8.8	11	5.2				
NOV. 24...	224	78	17	110	9.6	9.6	7.1				
DEC. 16...	172	79	18	2.5	11	--	6.3				
JAN. 19...	189	82	18	130	12	15	.20				
FEB. 09...	202	81	18	110	9.2	12	5.2				
MAR. 22...	122	86	18	140	12	15	6.2				
APR. 12...	100	84	20	120	7.5	9.7	3.7				
MAY 04...	228	80	19	120	--	--	--				
10...	433	73	16	92	8.1	10	4.6				
JUNE 28...	680	53	12	67	3.3	4.3	2.3				

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- LILITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
JULY 19...	440	13	58	14	85	7.5	180	0	148	140	64	--
AUG. 30...	214	15	68	14	99	8.5	228	0	187	160	77	--
SEP. 29...	181	16	76	17	120	11	281	0	230	210	99	--

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	ALDRIN (UG/L)	CHLOR- DANE (UG/L)	DOD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- AZINON (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)
DEC. 16...	.00	.0	.00	.00	.01	--	.01	.00	.00
MAR. 22...	.00	.0	.00	.00	.00	--	.01	.00	.00
MAY 04...	.00	.0	.00	.00	.00	.09	.01	.00	.00
JUNE 28...	.00	.0	.00	.00	.00	--	.02	.00	.00

06720500 SOUTH PLATTE RIVER AT HENDERSON, COLO.--Continued

DRAINAGE AREA.--4,713 sq mi.

PERIOD OF RECORD.--Chemical analyses: July 1955 to September 1957, June 1962 to September 1972.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	HARD- NESS (CA,MG) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)
OCT. 20...	280	1170	6.8	17.0	--	--	--
NOV. 24...	260	1220	7.0	9.5	--	--	--
DEC. 16...	270	1320	7.3	8.0	30	2	10
JAN. 19...	280	1300	7.0	10.0	--	--	--
FEB. 09...	280	1200	7.2	9.0	--	--	--
MAR. 22...	290	1340	7.1	13.5	20	2	1
APR. 12...	290	1230	7.3	17.0	--	--	--
MAY 04...	280	1300	6.9	12.0	10	0	--
10...	250	1020	6.9	14.0	--	--	--
JUNE 28...	180	705	6.9	23.0	0	0	7

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 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	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)
JULY 19...	1.5	3.3	487	.66	579	200	55	47	2.6	817	6.4	19.0
AUG. 30...	2.0	3.3	572	.78	331	230	40	47	2.9	953	7.4	20.0
SEP. 29...	1.5	5.5	711	.97	348	260	29	49	3.2	1170	7.0	17.0

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	HEPTA- CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	MALA- THION (UG/L)	METHYL PARA- THION (UG/L)	PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
DEC. 16...	.00	.00	--	--	--	.00	.01	.00
MAR. 22...	.00	.00	--	--	--	.08	.01	.00
MAY 04...	.00	.09	.05	.00	.00	.53	.00	.00
JUNE 28...	.00	.04	--	--	--	.17	.00	.03

PLATTE RIVER BASIN

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 mile upstream from Longmont Dam and 4 miles west of Lyons.

DRAINAGE AREA.--106 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1971 to September 1972.

REMARKS.--Records of discharge are estimated values.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)	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)
CT.												
06...	E20	6.0	60	10	2.9	.2	1.4	.2	14	0	11	3.0
NOV.												
03...	E10	5.1	40	0	4.3	.4	1.6	.3	14	0	11	2.8
DEC.												
14...	E10	5.0	60	0	3.6	.6	2.2	.1	15	0	12	2.3
JAN.												
18...	E8.0	5.2	50	0	3.1	.6	1.6	.6	18	0	15	2.3
FEB.												
16...	E5.0	5.0	70	30	3.5	.7	2.1	.0	13	0	10	3.2
MAR.												
21...	E8.0	6.2	30	20	2.9	.7	1.9	.4	16	0	13	2.3
APR.												
13...	E20	5.3	50	10	3.3	.5	1.9	.4	15	0	12	3.8
MAY												
12...	E15	6.1	90	50	3.3	.6	2.0	.4	16	0	13	3.2
JUNE												
22...	E220	5.6	60	0	3.0	.4	1.0	.2	9	0	7	4.5
JULY												
17...	E40	5.2	80	0	3.8	.5	1.6	.6	13	0	11	5.7
AUG.												
11...	E30	5.0	100	30	2.9	.5	1.6	.6	10	0	8	6.1
SEP.												
19...	E20	4.6	140	20	3.2	.4	1.7	.3	12	0	10	4.3

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)	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)	TEMPER- ATURE (DEG C)
OCT.												
06...	.4	.0	.00	.010	21	.03	8	0	.2	24	7.0	13.0
NOV.												
03...	.9	.1	.02	.010	23	.03	12	1	.2	24	7.2	9.0
DEC.												
14...	.6	.4	.01	.010	22	.03	11	0	.3	27	7.2	1.0
JAN.												
18...	.1	.0	.02	.020	23	.03	10	0	.2	28	6.3	2.0
FEB.												
16...	1.7	.1	.00	.000	23	.03	12	1	.3	28	7.3	2.0
MAR.												
21...	.8	.1	.00	.000	23	.03	10	0	.3	29	7.3	6.0
APR.												
13...	.6	.1	.03	.000	23	.03	10	0	.3	27	7.6	7.0
MAY												
12...	.2	.1	.00	.000	24	.03	11	0	.3	31	6.8	8.0
JUNE												
22...	.3	.0	.04	.000	20	.03	9	2	.1	24	7.2	10.0
JULY												
17...	1.0	.2	.07	.000	25	.03	12	1	.2	22	7.2	11.0
AUG.												
11...	.7	.2	.05	.020	23	.03	9	1	.2	21	7.6	13.0
SEP.												
19...	.8	.2	.07	.000	22	.03	10	0	.2	23	7.5	14.5

PLATTE RIVER BASIN

23

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 south of State Highway 7 and 0.2 mile southwest of Lyons.

DRAINAGE AREA.--81.4 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1971 to September 1972.

REMARKS.--Records of discharges are estimated values.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)
OCT.												
06...	E15	7.7	70	0	7.0	1.1	6.0	.5	29	0	24	7.0
NOV.												
03...	E5.0	7.9	20	10	8.4	1.6	3.1	.6	32	0	26	9.3
DEC.												
14...	E2.0	9.1	20	0	6.7	1.5	3.5	.7	33	0	27	5.5
JAN.												
18...	E4.0	9.4	30	0	7.0	1.6	3.1	.6	35	0	29	5.0
FEB.												
16...	E3.0	9.7	20	0	7.4	1.7	3.9	.2	34	0	28	5.2
MAR.												
21...	E4.0	12	40	20	7.1	1.7	3.3	.7	33	0	27	5.4
APR.												
13...	E45	10	70	10	6.0	1.4	3.2	.8	28	0	23	4.7
MAY												
12...	E12	9.8	70	13	5.4	1.1	2.7	.5	23	0	19	5.3
JUNE												
22...	E200	5.1	50	0	3.7	.6	.8	.3	14	0	11	4.9
JULY												
17...	E20	4.4	30	0	5.4	.8	1.5	.6	19	0	16	4.9
AUG.												
11...	E8.0	5.5	50	10	6.9	.9	2.0	.7	21	0	17	4.5
SEP.												
19...	E5.0	5.6	30	0	6.8	1.1	2.5	.4	26	0	21	4.7

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
OCT.												
06...	.4	.0	.01	.020	44	.06	22	0	.6	59	7.4	15.0
NOV.												
03...	1.0	.2	.03	.010	48	.07	28	1	.3	67	7.4	8.0
DEC.												
14...	.8	.6	.18	.010	45	.06	23	0	.3	70	7.3	.0
JAN.												
18...	.4	.0	.22	.040	45	.06	24	0	.3	69	7.9	.0
FEB.												
16...	1.0	.2	.09	.000	46	.06	25	0	.3	70	7.6	5.5
MAR.												
21...	2.0	.2	.02	.000	49	.07	25	0	.3	64	7.2	12.0
APR.												
13...	1.2	.2	.02	.000	41	.06	21	0	.3	55	7.9	8.0
MAY												
12...	.3	.1	.04	.000	37	.05	18	0	.3	50	7.0	10.0
JUNE												
22...	.2	.0	.03	.000	23	.03	12	0	.1	30	7.4	11.0
JULY												
17...	1.0	.1	.04	.000	28	.04	17	1	.2	34	5.8	14.0
AUG.												
11...	.6	.2	.01	.020	32	.04	21	4	.2	39	6.4	19.0
SEP.												
19...	.9	.1	.04	.000	35	.05	22	0	.2	51	7.2	17.0

PLATTE RIVER BASIN

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 mile west of intersection of State Highway 160 and U.S. Highway 36 in Altona.

DRAINAGE AREA.--59.0 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1971 to September 1972.

REMARKS.--Records of discharges are estimated values.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SiO ₂) (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 (HCO ₃) (MG/L)	CARBONATE (CO ₃) (MG/L)	ALKALINITY AS CaCO ₃ (MG/L)	DIS-SOLVED SULFATE (SO ₄) (MG/L)
OCT. 06...	E2.0	11	20	80	19	4.8	6.2	1.1	55	0	45	40
NOV. 03...	E4.0	11	20	90	17	4.3	6.2	1.2	33	0	27	44
DEC. 14...	E1.0	12	30	120	21	6.8	9.2	1.0	34	0	28	68
JAN. 18...	E3.0	13	20	90	26	6.7	10	1.7	34	0	28	89
FEB. 16...	E3.0	12	30	100	24	6.6	11	1.1	32	0	26	83
MAR. 21...	E3.0	14	20	100	22	6.2	9.6	1.4	39	0	32	68
APR. 13...	E1.0	12	20	50	15	4.5	6.9	1.2	31	0	25	46
MAY 12...	E8.0	12	40	50	13	3.7	5.8	1.1	30	0	25	32
JUNE 22...	E30	5.6	80	10	4.4	.9	1.6	2.2	12	0	10	9.4
JULY 17...	E10	5.1	50	10	7.7	1.2	2.9	.8	15	0	12	12
AUG. 11...	E4.0	5.7	80	20	7.0	1.5	3.9	.9	19	0	16	17
SEP. 19...	E3.0	7.4	100	20	11	2.6	7.4	.8	25	0	21	34

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
OCT. 06...	.9	1.9	.04	.010	112	.15	67	22	.3	179	7.2	15.0
NOV. 03...	1.1	2.0	.10	.000	104	.14	60	33	.3	167	7.1	4.0
DEC. 14...	1.1	4.6	.45	.010	143	.19	80	53	.4	224	6.9	.0
JAN. 18...	.8	1.6	.46	.000	168	.23	92	65	.5	252	6.6	1.0
FEB. 16...	1.1	4.5	.42	.000	161	.22	87	61	.5	255	7.1	3.0
MAR. 21...	1.2	2.7	.18	.010	145	.20	80	48	.5	227	7.2	11.0
APR. 13...	1.2	1.9	.09	.000	104	.14	56	31	.4	160	7.3	5.5
MAY 12...	.7	.9	.10	.000	84	.11	48	23	.4	134	7.1	8.0
JUNE 22...	1.7	.5	.01	.080	33	.04	15	5	.2	47	7.2	11.0
JULY 17...	1.0	.8	.02	.000	39	.05	24	12	.3	54	5.8	13.0
AUG. 11...	.6	1.0	.01	.000	47	.06	24	8	.3	74	7.1	20.0
SEP. 19...	1.1	1.4	.11	.000	79	.11	38	18	.5	122	7.4	15.0

PLATTE RIVER BASIN

25

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 downstream from bridge on county road, 1.3 miles upstream from mouth, and 4 miles northwest of Platteville.

DRAINAGE AREA.--976 sq mi.

PERIOD OF RECORD.--Chemical analyses: February 1955 to August 1956, September 1965 to September 1968, October 1970 to September 1972.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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- LITY AS CaCO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
OCT.												
05...	241	8.0	40	30	91	58	92	3.5	291	0	239	410
NOV.												
02...	192	8.6	40	80	94	67	110	4.7	293	0	240	490
DEC.												
13...	156	9.7	40	140	100	77	120	5.3	291	0	239	530
JAN.												
08...	160	9.7	40	110	86	54	93	6.0	246	0	202	400
FEB.												
01...	226	9.0	20	230	92	63	72	4.4	235	0	193	370
MAR.												
04...	109	9.2	20	150	99	70	120	4.2	280	0	230	510
APR.												
14...	100	7.4	40	240	85	64	110	4.7	246	0	202	460
MAY												
04...	126	8.8	20	390	110	79	150	6.0	298	0	244	630
18...	85	7.2	40	210	99	84	140	4.8	297	0	244	620
JUNE												
23...	119	9.6	20	100	100	68	110	4.5	259	0	212	530
JULY												
18...	214	8.7	50	40	100	77	130	4.8	268	0	220	570
AUG.												
10...	154	8.0	30	70	110	88	150	4.7	281	0	230	710
SEP.												
18...	121	7.9	40	90	110	84	150	4.5	334	0	274	600

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 ORTHOPHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	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)	TEMPER- ATURE (DEG C)
OCT.												
05...	16	1.0	2.5	.38	835	1.14	470	230	1.9	1220	7.7	11.0
NOV.												
02...	25	1.1	2.6	.59	958	1.30	510	270	2.1	1420	7.4	5.0
DEC.												
13...	25	.8	4.5	.45	1030	1.40	570	330	2.2	1480	7.6	.0
JAN.												
08...	23	.6	2.0	.42	804	1.09	440	240	1.9	1200	7.2	.0
FEB.												
01...	24	1.0	1.9	.50	761	1.04	490	300	1.4	1010	8.0	.0
MAR.												
04...	28	1.1	2.6	.55	993	1.35	540	310	2.3	1380	7.4	4.0
APR.												
14...	25	1.0	3.3	.72	895	1.22	480	270	2.2	1290	7.5	8.5
MAY												
04...	43	1.0	2.4	.80	1190	1.62	600	360	2.7	1660	7.5	18.0
18...	34	1.0	2.4	.39	1150	1.56	590	350	2.5	1620	7.8	23.0
JUNE												
23...	27	1.0	2.8	.25	991	1.35	530	320	2.1	1420	8.2	26.0
JULY												
18...	26	1.1	2.8	.19	1060	1.44	570	350	2.4	1510	7.2	16.5
AUG.												
10...	30	1.2	2.6	.19	1250	1.70	640	410	2.6	1740	8.0	18.5
SEP.												
18...	36	1.3	2.4	.38	1170	1.59	620	350	2.6	1660	8.2	21.0

PLATTE RIVER BASIN

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

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	ALDRIN (UG/L)	CHLOR- DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- AZINON (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR EPOXIDE (UG/L)
MAY 04...	126	3.5	.00	.0	.00	.00	.00	.02	.00	.00	.00	.00
DATE	LINDANE (UG/L)	MALA- THION (UG/L)	METHYL PARA- THION (UG/L)	PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
MAY 04...	.00	.00	.00	.00	.24	.00	.00	2	0	2	0	10

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 miles west of city hall in Fort Collins.

PERIOD OF RECORD.--Chemical analyses: September 1969 to September 1972.

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 1971 TO SEPTEMBER 1972

DATE	RESER- VOIR STORAGE (AC-FT)	DEPTH (FT)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED AMMONIA 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)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT.										
19...	58200	2.0	.02	.000	.11	.080	78	.11	101	13.0
19...	58200	40	.01	.000	.34	2.5	79	.11	97	13.0
19...	58200	80	.02	.000	1.2	.10	81	.11	78	13.0
NOV.										
23...	61710	2.0	.05	.000	.19	.090	73	.10	82	7.0
23...	61710	45	.06	.000	.18	.10	63	.09	83	7.0
23...	61710	90	.05	.000	.20	1.0	67	.09	94	7.0
DEC.										
21...	69700	2.0	.10	.010	.07	.43	65	.09	83	2.0
21...	69700	50	.07	.000	.05	.20	60	.08	83	3.0
21...	69700	100	.06	.000	.03	.94	57	.08	89	3.5
MAR.										
14...	113700	2.0	.08	.000	.02	.46	69	.09	79	3.0
14...	113700	40	.06	.000	.04	.21	60	.08	80	3.0
14...	113700	80	.06	.000	.04	1.5	56	.08	94	3.0
APR.										
18...	126500	2.0	.09	.000	.05	.12	77	.10	78	6.0
18...	126500	50	.09	.000	.05	.080	78	.11	75	5.5
18...	126500	110	.09	.000	.07	.040	80	.11	72	5.0
MAY										
31...	128400	2.0	.05	.000	.05	.020	51	.07	74	14.0
31...	128400	40	.12	.000	.00	.15	50	.07	72	7.5
31...	128400	120	.13	.000	.01	.020	51	.07	72	6.5
JUNE										
29...	129900	2.0	.01	.000	.05	.37	65	.09	70	21.0
29...	129900	40	.04	.000	.04	.020	66	.09	72	8.5
29...	129900	110	.09	.000	.02	.21	69	.09	74	7.0
JULY										
28...	109300	2.0	.00	.000	.02	.29	67	.09	72	19.5
28...	109300	40	.01	.000	.03	.59	58	.08	71	13.0
28...	109300	90	.07	.000	.02	.92	72	.10	73	13.0
AUG.										
16...	87750	2.0	.03	.000	.06	.060	58	.08	71	20.5
16...	87750	40	.06	.000	.09	.040	54	.07	70	13.5
16...	87750	90	.12	.000	.06	.050	52	.07	73	8.5
SEP.										
26...	70600	2.0	.03	.000	.05	--	52	.07	77	16.0
26...	70600	60	.09	.000	.04	--	46	.06	72	11.0
26...	70600	100	.15	.010	.01	--	50	.07	74	8.0

PLATTE RIVER BASIN

27

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 miles west of Berthoud, and 8.9 miles upstream from mouth.

PERIOD OF RECORD.--Chemical analyses: February 1970 to September 1972.

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 1971 TO SEPTEMBER 1972

DATE	RESER- VOIR STORAGE (AC-FT)	DEPTH (FT)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED AMMONIA 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)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT.										
19...	54400	2.0	.04	.000	.20	1.5	116	.16	110	12.0
19...	54400	30	.04	.000	.16	.10	89	.12	100	12.0
19...	54400	60	.03	.000	.21	.090	81	.11	91	2.5
NOV.										
23...	64110	2.0	.05	.000	.17	.12	69	.09	91	7.0
23...	64110	50	.04	.000	.19	.090	67	.09	89	7.0
23...	64110	90	.05	.000	.06	.050	70	.10	90	7.0
DEC.										
21...	73690	2.0	.03	.000	.05	1.3	58	.08	96	3.0
21...	73690	50	.03	.000	.04	.45	55	.07	90	3.0
21...	73690	100	.03	.000	.05	.070	57	.08	88	3.0
MAR.										
14...	101800	2.0	.03	.000	.04	2.0	58	.08	99	3.0
14...	101800	55	.03	.000	.04	.080	61	.08	87	2.5
14...	101800	110	.03	.000	.05	.040	57	.08	87	3.0
APR.										
18...	107300	2.0	.03	.000	.04	.070	82	.11	86	6.0
18...	107300	50	.04	.000	.05	.040	84	.11	86	5.0
18...	107300	110	.04	.000	.02	.030	91	.12	85	4.0
MAY										
31...	105200	2.0	.00	.000	.00	.11	58	.07	87	14.0
31...	105200	40	.04	.000	.00	.32	64	.09	101	6.0
31...	105200	120	.04	.000	.00	1.5	63	.09	99	5.0
JUNE										
29...	99380	2.0	.00	.000	.02	.050	71	.09	89	20.5
29...	99380	30	.01	.000	.02	.020	72	.10	89	10.0
29...	99380	100	.04	.000	.01	.030	73	.10	89	6.0
JULY										
28...	78820	2.0	.02	.000	.04	1.3	76	.10	100	20.5
28...	78820	40	.04	.000	.05	.16	66	.09	101	12.0
28...	78820	90	.03	.000	.04	.070	71	.10	91	10.0
AUG.										
16...	66930	2.0	.01	.000	.05	.020	69	.09	95	20.5
16...	66930	30	.00	.000	.06	.020	67	.09	95	12.0
16...	66930	90	.06	.000	.06	.050	61	.08	91	6.5
SEP.										
26...	--	2.0	.01	.000	.06	--	55	.07	102	16.0
26...	--	40	.00	.000	.04	--	59	.08	99	11.0
26...	--	70	.00	.000	.05	--	56	.07	92	7.0

PLATTE RIVER BASIN

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 mile upstream from highway bridge, 1.6 miles upstream from mouth, and 4 miles west of LaSalle.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (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)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	ALKA- LITY AS CACO ₃ (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)
OCT.												
05...	94	8.9	20	110	200	130	180	4.6	394	0	323	1000
NOV.												
02...	118	9.2	30	300	170	100	140	6.2	345	0	283	850
DEC.												
13...	82	9.0	30	250	190	140	220	9.2	414	0	340	1200
JAN.												
08...	93	11	30	210	190	130	190	12	381	0	313	1100
FEB.												
01...	64	12	30	350	220	150	210	7.6	436	0	358	1300
MAR.												
04...	63	11	40	240	200	140	190	8.6	405	0	332	1100
APR.												
14...	94	7.9	30	250	120	78	110	6.5	242	0	198	630
MAY												
11...	21	8.0	30	280	190	130	180	11	366	0	300	1100
18...	7.5	7.3	40	310	180	120	180	11	301	0	247	990
JUNE												
23...	66	8.0	20	210	110	74	120	7.2	241	0	198	640
JULY												
18...	48	9.6	50	200	170	110	170	7.8	329	0	270	900
AUG.												
10...	38	11	50	220	180	110	160	7.3	358	0	294	940
SEP.												
18...	44	9.4	80	200	200	130	190	8.3	406	0	333	1000

TRACE METALS AND PESTICIDE ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	ALDRIN (UG/L)	CHLOR- DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- AZINON (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR EPOXIDE (UG/L)
MAY												
11...	21	7.0	.00	.0	.00	.00	.00	.01	.00	.00	.00	.00

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

DRAINAGE AREA.--828 sq mi.

PERIOD OF RECORD.--Chemical analyses: August 1954 to July 1956, October 1967 to September 1968, October 1970 to September 1972.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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 CONSTITUENTS) (MG/L)	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)	TEMPER- ATURE (DEG C)
OCT. 05...	16	1.0	2.9	.14	1750	2.38	1000	710	2.4	2320	7.6	11.0
NOV. 02...	18	.9	1.6	.090	1470	2.00	840	550	2.1	1960	7.2	5.0
DEC. 13...	28	1.4	1.6	.10	2010	2.73	1100	710	3.0	2580	7.5	.0
JAN. 08...	28	.9	2.6	.12	1860	2.53	1000	700	2.6	2380	7.0	.0
FEB. 01...	33	1.1	1.5	.24	2160	2.94	1200	810	2.7	2560	7.5	.0
MAR. 04...	25	1.2	4.5	.22	1900	2.58	1100	740	2.5	2420	7.2	5.0
APR. 14...	16	.8	1.5	.15	1100	1.50	620	420	1.9	1520	7.2	9.5
MAY 11...	24	.8	1.2	.080	1830	2.49	1000	710	2.5	2330	7.2	13.0
18...	26	1.0	1.3	.11	1670	2.27	940	700	2.6	2210	7.3	24.0
JUNE 23...	17	.7	2.2	.050	1110	1.51	580	380	2.2	1530	7.6	24.0
JULY 18...	25	1.1	3.2	.030	1570	2.14	880	610	2.5	2060	7.2	16.5
AUG. 10...	22	1.0	1.8	.080	1620	2.20	900	610	2.3	2100	7.7	18.0
SEP. 18...	25	1.1	1.8	.040	1770	2.41	1000	700	2.6	2380	7.6	18.5

TRACE METALS AND PESTICIDE ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	LINDANE (UG/L)	MALA- THION (UG/L)	METHYL PARA- THION (UG/L)	PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
MAY 11...	.00	.00	.00	.00	.03	.00	.00	2	0	2	0	30

PLATTE RIVER BASIN

06747500 CACHE LA POUDE RIVER NEAR RUSTIC, COLO.

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

DRAINAGE AREA.--199 sq mi (at gaging station).

PERIOD OF RECORD.--Chemical analyses: October 1971 to September 1972.

REMARKS.--Records of discharges are estimated values.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (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)	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. 05...	E65	11	80	10	5.8	1.0	6.5	.8	27	0	22	3.8
NOV. 03...	--	11	140	40	7.7	2.0	3.8	1.1	31	0	25	5.0
DEC. 14...	E25	13	60	0	8.6	2.7	5.3	1.6	41	0	34	6.8
JAN. 28...	E20	14	60	10	8.3	2.1	3.4	1.3	42	0	34	3.9
FEB. 18...	E15	13	40	0	7.7	2.2	3.5	.8	40	0	33	3.7
MAR. 18...	E20	14	40	0	7.4	2.4	3.5	1.2	42	0	34	3.7
APR. 12...	E80	10	70	0	6.4	1.6	3.5	1.2	36	0	30	3.4
MAY 17...	E250	8.4	220	0	5.9	1.4	2.0	.9	24	0	20	7.8
JUNE 28...	E650	7.5	60	0	3.9	.8	2.0	.6	17	0	14	3.4
JULY 20...	E150	6.2	60	0	6.6	.9	1.6	.9	19	0	16	4.6
AUG. 11...	E75	8.3	50	20	5.0	1.1	2.2	1.2	22	0	18	4.4
SEP. 19...	E40	9.3	80	0	6.3	1.2	2.7	.7	29	0	24	3.1

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 CONSTITUENTS) (MG/L)	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)	TEMPER- ATURE (DEG C)
OCT. 05...	.6	.0	.03	.020	43	.06	19	0	.7	50	7.2	10.0
NOV. 03...	1.5	.1	.10	.010	48	.07	27	2	.3	55	7.3	.0
DEC. 14...	1.7	.4	.15	.020	61	.08	33	0	.4	78	7.3	.0
JAN. 28...	1.4	.1	.08	.030	56	.08	29	0	.3	76	7.4	.0
FEB. 18...	.8	.2	.03	.010	52	.07	28	0	.3	75	7.5	.0
MAR. 18...	.8	.2	.01	.000	54	.07	28	0	.3	73	7.3	4.0
APR. 12...	1.8	.2	.01	.000	46	.06	23	0	.3	63	8.0	5.5
MAY 17...	1.7	.1	.02	.000	40	.05	20	1	.2	47	7.6	7.0
JUNE 28...	.9	.0	.03	.000	28	.04	13	0	.2	34	7.7	10.0
JULY 20...	1.0	.3	.01	.000	32	.04	20	5	.2	35	7.2	12.0
AUG. 11...	.6	.2	.00	.040	34	.05	17	0	.2	43	6.8	12.0
SEP. 19...	.7	.1	.01	.000	38	.05	21	0	.3	48	6.5	10.0

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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 mile downstream from headgate of Poudre Valley Canal, 1.2 miles upstream from Lewstone Creek, and 9.3 miles northwest of courthouse in Fort Collins.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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. 05...	39	11	60	0	9.5	2.1	6.5	.9	37	0	30	7.0
NOV. 03...	160	11	70	20	7.9	1.9	3.0	.9	40	0	33	3.3
DEC. 14...	33	12	30	0	16	4.2	6.7	1.7	75	0	62	6.8
JAN. 28...	27	13	20	0	20	5.1	7.6	1.4	92	0	75	9.0
FEB. 18...	33	11	20	20	17	4.5	6.2	.7	80	0	66	6.9
MAR. 18...	37	13	20	10	16	4.1	5.9	1.2	74	0	61	6.3
APR. 12...	55	10	30	20	16	4.4	6.6	1.4	80	0	66	7.6
MAY 18...	584	9.2	200	10	8.1	1.9	3.0	1.0	37	0	30	4.6
JUNE 28...	848	8.2	60	0	5.8	1.4	2.5	.9	25	0	20	4.0
JULY 20...	290	6.5	60	0	4.7	1.0	1.8	.9	21	0	17	6.3
AUG. 11...	66	9.1	70	30	9.8	2.3	4.0	1.3	43	0	35	6.2
SEP. 19...	53	8.6	60	0	7.4	2.2	4.0	.9	34	0	28	7.0

[illegible]

PLATE RIVER BASIN

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

PERIOD OF RECORD.--Chemical analyses: October 1971 to September 1972.

Sediment records: June 1962 to October 1965.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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 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)	TEMPER- ATURE (DEG C)
OCT.												
05...	1.0	.1	.04	.020	57	.08	32	2	.5	73	7.1	14.0
NOV.												
03...	.9	.2	.06	.000	20	.03	28	0	.2	71	7.2	2.0
DEC.												
14...	3.0	.6	.14	.010	89	.12	57	0	.4	138	7.6	.0
JAN.												
28...	4.0	.4	.14	.040	107	.15	71	0	.4	176	7.7	.0
FEB.												
18...	2.6	.4	.04	.000	89	.12	61	0	.3	148	7.8	.0
MAR.												
18...	2.7	.4	.02	.000	86	.12	57	0	.3	133	7.5	7.0
APR.												
12...	3.0	.4	.02	.000	89	.12	58	0	.4	146	7.6	10.5
MAY												
18...	1.2	.2	.00	.010	48	.07	28	0	.2	75	7.0	12.0
JUNE												
28...	.8	.1	.00	.040	36	.05	20	0	.2	49	7.5	13.0
JULY												
20...	1.0	.2	.06	.020	33	.04	16	0	.2	39	6.1	15.5
AUG.												
11...	1.1	.3	.01	.040	56	.08	34	0	.3	78	6.8	15.0
SEP.												
19...	1.2	.2	.03	.000	48	.07	28	0	.3	63	7.2	14.0

TRACE METALS AND PESTICIDE ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	LINDANE (UG/L)	MALA- THION (UG/L)	METHYL PARA- THION (UG/L)	PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
MAY												
18...	.00	.00	.00	.00	.00	.00	.00	0	1	3	2	20

PLATTE RIVER BASIN

33

06752500 CACHE LA POUDE 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 downstream from highway bridge, 3 miles east of court house in Greeley, and 3 miles upstream from mouth.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (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 (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	ALKA- LINITY AS CACO ₃ (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)
OCT. 05...	144	11	40	70	190	99	130	5.2	351	0	288	790
NOV. 02...	186	14	30	100	110	49	71	4.9	259	0	212	370
DEC. 13...	136	13	20	150	160	79	150	6.5	375	0	308	630
JAN. 08...	161	16	40	110	160	78	110	9.2	386	0	317	620
FEB. 01...	172	15	80	150	160	82	110	5.8	342	0	281	660
MAR. 04...	147	12	30	130	150	72	110	5.9	298	0	244	580
APR. 14...	150	11	40	140	170	80	160	7.3	342	0	281	700
MAY 23...	15	11	50	160	160	72	110	5.8	287	0	235	560
JUNE 23...	150	12	20	150	140	72	120	7.7	264	0	217	620
JULY 18...	17	14	20	270	180	77	130	7.9	348	0	285	640
AUG. 10...	8.7	14	30	310	180	73	130	9.0	362	0	297	670
SEP. 18...	69	13	50	130	160	85	120	6.2	344	0	282	650

TRACE METALS AND PESTICIDE ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	ALDRIN (UG/L)	CHLOR- DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- AZINON (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)
MAY 23...	15	6.0	.00	.0	.00	.00	.00	.02	.01	.00	.00

PLATTE RIVER BASIN

06752500 CACHE LA POUDRE RIVER NEAR GREELEY, COLO.--Continued

DRAINAGE AREA.--1,877 sq mi.

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 1972.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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 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)	TEMPER- ATURE (DEG C)
OCT. 05...	29	.9	4.7	.35	1450	1.97	880	590	1.9	1960	7.1	13.0
NOV. 02...	25	.8	2.6	.32	785	1.07	480	260	1.4	1140	7.0	7.0
DEC. 13...	33	1.4	3.6	.75	1280	1.74	720	420	2.4	1690	7.2	4.0
JAN. 08...	38	.6	5.5	.70	1250	1.70	720	400	1.8	1680	7.1	5.0
FEB. 01...	35	1.0	3.8	.79	1260	1.71	740	460	1.8	1680	7.4	2.0
MAR. 04...	44	.9	4.8	.74	1150	1.56	670	430	1.8	1580	7.1	5.0
APR. 14...	75	.9	3.2	1.1	1390	1.89	750	470	2.5	1940	7.5	9.0
MAY 23...	37	.9	2.6	.51	1110	1.51	700	460	1.8	1610	6.5	14.5
JUNE 23...	55	.8	4.9	.74	1180	1.60	650	430	2.1	1650	7.3	23.0
JULY 18...	52	.8	4.2	.48	1290	1.75	770	480	2.0	1800	7.0	19.0
AUG. 10...	43	.8	2.5	.54	1310	1.78	750	450	2.1	1810	7.1	20.0
SEP. 18...	43	1.1	3.5	1.0	1270	1.73	750	470	1.9	1790	7.5	19.0

TRACE METALS AND PESTICIDE ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	HEPTA- CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	MALA- THION (UG/L)	METHYL PARA- THION (UG/L)	PARA- THION (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
MAY 23...	.00	.00	.00	.00	.00	0	0	2	1	20

PLATTE RIVER BASIN

35

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 downstream from bridge on State Highway 144, 2.8 miles southeast of Weldona, and 4.2 miles

Analyses: October 1967 to September 1968, October 1971 to September 1972.

QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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- LITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
10	140	65	150	6.0	313	0	257	600
20	140	62	140	6.5	318	0	261	600
50	160	67	160	8.9	324	0	266	620
50	140	59	140	11	317	0	260	550
160	150	63	150	8.3	338	0	277	600
50	140	61	150	7.0	310	0	254	550
67	180	74	170	7.7	341	0	280	730
50	170	77	170	8.1	248	0	273	760
30	150	62	140	7.2	288	0	236	600
0	150	83	190	9.2	278	0	228	750
50	180	74	180	8.9	319	0	262	820
30	180	77	180	8.2	354	0	290	740

DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	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)	TEMPER- ATURE (DEG C)
.70	1210	1.65	620	360	2.6	1650	7.7	14.0
.36	1200	1.63	600	340	2.5	1720	7.9	7.0
.53	1290	1.75	670	410	2.7	1770	7.6	1.5
1.1	1160	1.58	590	330	2.5	1600	7.2	1.0
.87	1250	1.70	630	360	2.6	1740	7.7	.0
.84	1170	1.59	600	350	2.7	1660	7.4	4.0
.30	1430	1.94	750	470	2.7	1910	8.3	7.0
.10	1400	1.90	740	540	2.7	1870	7.3	22.0
.20	1180	1.60	630	390	2.4	1670	8.3	20.0
.080	1420	1.93	720	490	3.1	1990	7.6	24.5
.14	1520	2.07	750	490	2.9	1970	8.0	26.0
.21	1470	2.00	770	480	2.8	2020	8.2	14.5

PLATTE RIVER BASIN

06764000 SOUTH PLATTE RIVER AT JULESBURG, COLO.
(Irrigation 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 mile southeast of Julesburg, 3 miles upstream from Colorado-Nebraska State line, and 8 miles downstream from Lodgepole Creek.

DRAINAGE AREA.--23,138 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1945 to September 1972.

Water temperatures: October 1945 to September 1972.

EXTREMES, 1971-72.--Specific conductance: Maximum daily, 2,280 micromhos Apr. 28; minimum daily, 1,290 micromhos June 11.

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

LAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1800	1960	1930	1970	2000	1940	1910	1950	1950	1890	1820	1850
2	1820	1960	1950	1980	2050	1950	1950	2070	1950	1700	1900	1870
3	1840	1990	1950	2000	2090	1920	1950	2040	1950	1890	1920	1900
4	1840	1960	1950	1970	2090	1960	1960	1990	1880	1910	1930	1900
5	1860	1940	1960	2150	1990	1960	1950	1960	1520	1930	1940	1970
6	1840	1930	1940	1940	1890	1920	1970	1980	1830	1920	1940	1960
7	1840	1940	1940	1980	1860	1890	1970	1990	2000	1900	1940	1970
8	1840	1910	2020	2040	1810	1900	1970	1970	1830	1930	1940	2000
9	1870	1880	2100	2090	1760	1880	1970	1880	1960	1930	1850	2000
10	1870	1890	2040	2020	1750	1890	1940	1970	1590	1930	1930	1990
11	1870	1910	2030	1970	1730	1880	1960	1850	1290	1920	1950	2020
12	1880	1910	2000	1970	1750	1870	1960	1930	1470	1920	1950	2050
13	1890	1910	2000	1990	1730	1860	1940	2010	1670	1940	1950	2020
14	1900	1910	1830	1970	1700	1850	1960	2020	1770	1930	1950	1990
15	1900	1910	1960	1990	1680	1850	1980	1970	1850	1930	1950	1990
16	1910	1900	1920	1980	1650	1900	1990	1960	1870	1920	1940	1990
17	1890	1900	2000	1960	1520	1910	1980	1960	1810	1940	1940	2000
18	1700	1940	1950	1950	1730	1940	1970	1950	1850	1940	1950	2000
19	1870	1950	1930	1920	1730	1940	1960	1960	1900	1930	1940	2000
20	1890	1960	1860	1860	1820	1950	1970	1920	1870	1910	1940	1990
21	1890	1980	1900	1820	1850	1940	1970	1920	1930	1940	1950	2020
22	1900	1980	1870	1780	1870	1950	1980	1950	1950	1990	1940	2000
23	1390	1950	1860	1720	1880	1940	1960	1910	1920	1940	1940	2010
24	1900	1960	1840	1680	1910	1920	1960	1930	1940	1940	1880	2020
25	1390	1960	1810	1830	1910	1940	1950	1950	1920	1920	1990	2020
26	1900	1960	1830	1980	1910	1950	1770	1920	1870	1940	2050	2030
27	1890	1990	1930	1910	1920	1950	2010	1870	1790	1700	2000	2020
28	1900	1980	1810	1970	1920	1960	2280	1930	1910	1900	2030	2020
29	1910	1960	1840	2020	1940	1940	2110	1950	1920	1930	1990	2030
30	1890	1960	1920	2090	---	1930	2020	1950	1900	1920	1760	2020
31	1910	---	2020	2020	---	1920	---	1950	---	1930	1850	---

PLATTE RIVER BASIN

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

EXTREMES, 1971-72.--Continued.

Water temperatures: Maximum, 30.0°C June 6, 7, Aug. 13; minimum, freezing point on many days during December 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, 1950-71): Maximum, 34°C July 28, Aug. 1, 1953, July 7, 18, 1963; minimum, freezing point on many days during winter period.

REMARKS.--Samples for specific conductance and temperature collected from channel no. 2 (06763990). For monthly chemical analyses considered applicable to this site, see record for South Platte River near Julesburg, Colo. (sta. 06764200).

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.5	4.5	2.0	1.0	0.0	3.5	8.0	8.0	19.0	21.0	19.0	15.5
2	11.0	4.5	1.0	0.0	0.0	9.0	10.0	6.5	18.0	16.5	18.0	14.5
3	10.0	4.5	1.0	0.0	0.0	6.5	5.5	13.5	24.5	13.5	15.5	13.5
4	9.0	3.5	2.0	0.0	0.0	4.5	6.5	14.5	24.5	14.0	15.5	23.5
5	10.0	5.5	1.0	0.0	1.0	3.5	15.5	13.5	20.0	14.5	20.0	19.0
6	11.0	1.0	0.0	0.0	0.0	6.5	13.5	12.0	30.0	29.0	16.5	18.0
7	10.0	1.0	0.0	0.0	0.0	4.5	10.0	8.0	30.0	16.5	16.5	16.5
8	10.0	3.5	0.0	0.0	0.0	3.5	12.0	10.0	21.0	18.0	16.5	14.5
9	5.5	3.5	0.0	0.0	0.0	4.5	11.0	11.0	29.0	21.0	26.5	18.0
10	9.0	3.5	1.0	0.0	0.0	6.5	10.0	8.0	21.0	18.0	18.0	19.0
11	10.0	4.5	0.0	0.0	0.0	9.0	13.5	10.0	20.0	16.5	18.0	18.0
12	11.0	6.5	0.0	0.0	0.0	9.0	11.0	11.0	21.0	26.5	20.0	19.0
13	9.0	8.0	0.0	0.0	0.0	6.5	11.0	11.0	21.0	20.0	30.0	15.5
14	10.0	5.5	0.0	0.0	0.0	8.0	5.5	9.0	24.5	18.0	18.0	16.5
15	10.0	5.5	0.0	0.0	0.0	5.5	8.0	13.5	18.0	18.0	19.0	16.5
16	9.0	6.5	0.0	0.0	1.0	6.5	11.0	15.5	22.0	26.5	19.0	17.0
17	5.5	4.5	0.0	0.0	1.0	8.0	15.5	16.5	18.0	16.5	18.0	17.0
18	11.0	2.0	0.0	1.0	1.0	8.0	8.0	15.5	19.0	15.5	20.0	18.0
19	8.0	2.0	1.0	0.0	2.0	10.0	8.0	15.5	18.0	18.0	25.5	18.0
20	9.0	4.5	3.5	1.0	2.0	9.0	5.5	15.5	15.5	16.5	19.0	15.5
21	8.0	4.5	0.0	0.0	3.5	6.5	9.0	21.0	19.0	16.5	16.5	10.0
22	10.0	4.5	0.0	0.0	2.0	8.0	15.5	16.5	15.5	18.0	16.5	11.0
23	9.0	4.5	0.0	1.0	3.5	6.5	13.5	15.5	18.0	19.0	15.5	11.0
24	9.0	4.5	1.0	0.0	3.5	6.5	9.0	15.5	19.0	26.5	16.5	15.5
25	8.0	4.5	1.0	0.0	5.5	5.5	11.0	15.5	19.0	19.0	15.5	14.5
26	9.0	4.5	0.0	0.0	5.5	8.0	6.5	16.5	16.5	19.0	18.0	9.0
27	10.0	4.5	0.0	0.0	3.5	4.5	4.5	15.5	15.5	19.0	23.5	10.0
28	4.5	3.5	0.0	1.0	8.0	5.5	5.5	15.5	15.5	21.0	19.0	10.0
29	2.0	2.0	0.0	0.0	10.0	6.5	8.0	12.0	21.0	18.0	21.0	10.0
30	3.5	2.0	0.0	0.0	---	4.5	10.0	15.5	18.0	19.0	21.0	9.0
31	1.0	---	0.0	1.0	---	4.5	---	22.0	---	20.0	19.0	---

PLATTE RIVER BASIN

06764200 SOUTH PLATTE RIVER NEAR JULESBURG, COLO.

LOCATION.--Lat 41°00'59", long 102°10'34", in SE¼NW¼ sec.13, T.12 N., R.43 W., Deuel County, Nebr., 4.7 miles downstream from gaging station at Julesburg, at diversion to Western Canal about 1.7 miles downstream from Colorado-Nebraska State line, and about 6 miles northeast of Julesburg.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (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.										
29...	254	--	--	--	120	31	--	--	--	--
NOV.										
29...	345	--	--	--	190	55	--	--	--	--
DEC.										
29...	343	--	--	--	190	58	--	--	--	--
JAN.										
28...	419	25	340	60	190	68	190	15	358	0
FEB.										
29...	499	--	--	--	190	60	--	--	--	--
MAR.										
31...	270	--	--	--	190	59	--	--	--	--
APR.										
28...	118	26	20	110	190	57	190	16	274	0
MAY										
31...	50	--	--	--	200	58	--	--	--	--
JUNE										
28...	34	--	--	--	200	56	--	--	--	--
JULY										
31...	20	26	20	100	200	56	180	18	258	0
AUG.										
31...	288	--	--	--	--	--	--	--	202	0
SEP.										
29...	51	--	--	--	--	--	--	--	242	0

DATE	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)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	DIS- SOLVED BORON (B) (UG/L)
OCT.										
29...	1.16	584	430	--	--	1190	--	1.0	--	--
NOV.										
29...	2.14	1460	700	--	--	1880	--	2.0	--	--
DEC.										
29...	1.96	1330	710	--	--	1900	--	.0	--	--
JAN.										
28...	1.97	1640	750	460	3.0	2000	7.7	.0	20	300
FEB.										
29...	2.14	2160	720	--	--	1930	--	9.0	--	--
MAR.										
31...	2.27	1220	720	--	--	1870	--	5.0	--	--
APR.										
28...	2.24	526	710	480	3.1	1980	8.2	10.0	5	250
MAY										
31...	2.11	209	740	--	--	1960	--	23.0	--	--
JUNE										
28...	2.20	140	730	--	--	1930	--	24.0	--	--
JULY										
31...	2.05	81.5	730	520	2.9	2020	7.4	22.0	20	270
AUG.										
31...	--	--	--	--	--	1910	7.7	19.0	--	--
SEP.										
29...	--	--	--	--	--	2010	8.2	10.0	--	--

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	ALDRIN (UG/L)	CHLOR- DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- AZINON (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)
AUG.									
31...	288	.00	.0	.00	.01	.00	.00	.02	.00

PLATTE RIVER BASIN

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06764200 SOUTH PLATTE RIVER NEAR JULESBURG, COLO.--Continued

DRAINAGE AREA.--23,200 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1972.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)
OCT.										
29...	--	370	39	--	.68	.33	.16	--	852	--
NOV.										
29...	--	700	66	--	1.5	.24	.23	--	1570	--
DEC.										
29...	--	710	70	--	2.1	.14	.24	--	1440	--
JAN.										
28...	294	710	82	1.0	3.4	.79	.54	.54	1450	1470
FEB.										
29...	--	700	74	--	2.6	.09	.29	--	1570	--
MAR.										
31...	--	730	75	--	1.8	.07	.27	--	1670	--
APR.										
28...	225	770	82	.8	1.2	.06	.13	.10	1650	1470
MAY										
31...	--	790	83	--	.79	.10	.11	--	1550	--
JUNE										
28...	--	760	77	--	1.3	.14	.19	--	1620	--
JULY										
31...	212	810	86	.7	1.5	--	--	.12	--	1510
AUG.										
31...	166	--	--	--	.01	--	--	.070	--	--
SEP.										
29...	198	--	--	--	.04	--	--	.060	--	--

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- SOLVED GROSS ALPHA AS U-NAT. (PC/L)	SUS- SOLVED GROSS ALPHA AS U-NAT. (PC/L)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- SOLVED GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L)
OCT.									
29...	24	.4	73	1.3	25	4.2	20	3.8	.10
NOV.									
29...	40	1.0	120	2.9	27	9.1	22	8.0	.10
DEC.									
29...	42	.6	120	1.8	27	9.5	23	8.3	.07
JAN.									
28...	69	<.1	210	<.4	31	5.1	25	4.6	.09
FEB.									
29...	47	2.7	140	8.0	23	14	19	12	.08
MAR.									
31...	42	1.2	120	3.6	23	9.6	19	8.2	.12
APR.									
28...	38	.1	110	.4	26	6.4	22	5.8	.10
MAY									
31...	37	.6	110	1.7	29	10	24	8.4	.10
JUNE									
28...	58	.5	170	1.5	26	8.7	22	7.3	.12
JULY									
31...	44	3.4	130	10	30	20	26	17	--
AUG.									
31...	32	7.3	95	22	25	28	21	23	--
SEP.									
29...	49	.3	150	.9	27	16	23	14	--

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	MALA- THION (UG/L)	METHYL PARA- THION (UG/L)	PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
AUG.									
31...	.00	.00	.00	.00	.00	.00	.10	.00	.00

PART 7. LOWER MISSISSIPPI RIVER BASIN

ARKANSAS RIVER BASIN

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

LOCATION.--Lat 39°10'20", long 106°23'19", in SE 1/4 sec. 13, T.10 S., R.81 W., Lake County, at gaging station, 1.4 miles upstream from culvert, 3.3 miles upstream from mouth, and 4.3 miles southwest of Malta.

DRAINAGE AREA.--23.6 sq mi.

PERIOD OF RECORD.--Chemical analyses: November 1966 to September 1972.

Water temperatures: May 1967 to September 1972.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (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)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	ALKA- LINITY AS CACO ₃ (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)
OCT. 26...	10	6.2	40	0	10	3.5	2.0	.8	51	0	42	1.0
NOV. 11...	10	6.1	30	10	10	3.8	1.6	.8	47	0	39	.0
DEC. 02...	6.7	6.9	20	0	12	4.0	1.9	.6	49	0	40	6.5
JAN. 20...	6.4	6.8	100	0	10	4.1	1.7	.9	50	0	41	6.1
FEB. 15...	3.0	7.1	40	10	12	4.3	1.9	1.4	53	0	43	6.5
MAR. 16...	8.2	6.9	30	10	12	4.2	2.4	.8	54	0	44	8.8
APR. 11...	8.2	6.0	130	20	10	4.0	1.7	.8	50	0	41	6.0
MAY 16...	20	4.6	70	20	8.8	3.2	1.4	.6	41	0	34	5.3
JUNE 14...	152	3.7	310	0	5.6	1.8	.7	.5	30	0	25	4.9
JULY 20...	43	4.3	40	0	7.7	2.3	1.0	.6	33	0	27	3.8
AUG. 17...	22	4.5	60	0	9.5	3.0	1.6	.5	39	0	32	6.3
SEP. 20...	22	4.5	70	0	9.3	3.1	1.3	.5	41	0	34	5.0

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

ARKANSAS RIVER BASIN

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07083000 HALFMOON CREEK NEAR MALTA, COLO.--Continued

EXTREMES, 1971-72.--Water temperatures: Maximum, 17°C Aug. 13; minimum, freezing point on many days during October to February.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED NITRATE PLUS NITRITE (N) (MG/L)	DIS-SOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
OCT.												
26...	1.5	.2	.15	.010	52	.07	39	0	.1	85	7.5	3.0
NOV.												
11...	.5	.1	.19	.040	47	.06	41	2	.1	87	7.5	.0
DEC.												
02...	.6	.1	.20	.010	58	.08	46	6	.1	91	7.6	.0
JAN.												
20...	.7	.2	.16	.000	56	.08	42	1	.1	93	7.4	1.0
FEB.												
15...	.8	.0	.28	.000	61	.08	48	4	.1	97	7.6	.0
MAR.												
16...	.6	.1	.03	.010	63	.09	47	3	.2	93	6.9	.0
APR.												
11...	.1	.1	.11	.010	54	.07	41	0	.1	89	7.4	8.0
MAY												
16...	2.1	.3	.17	.000	47	.06	35	2	.1	78	7.9	9.5
JUNE												
14...	.6	.0	.10	.010	33	.04	21	0	.1	47	7.8	9.0
JULY												
20...	1.0	.0	.03	.000	37	.05	29	2	.1	60	7.5	11.0
AUG.												
17...	.9	.1	.06	.010	46	.06	36	4	.1	75	7.4	7.0
SEP.												
20...	.4	.1	.05	.000	45	.06	36	2	.1	77	7.0	4.0

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	2.0	0.0	8.5	0.0	9.0	2.5	9.5	5.5	16.0	7.5	11.5	7.0
2	2.5	0.0	9.5	0.0	7.0	3.0	12.5	4.5	14.5	8.0	13.0	7.0
3	5.0	0.0	11.0	0.0	7.0	3.0	9.0	5.5	16.5	8.5	12.0	5.5
4	4.5	0.0	11.5	0.0	8.0	3.0	13.5	5.5	14.5	10.0	12.5	4.0
5	6.5	0.0	5.5	1.0	8.0	3.0	13.5	5.5	14.5	8.0	13.0	5.0
6	6.5	2.5	2.5	0.0	8.5	4.0	10.5	5.5	16.0	7.0	11.0	6.0
7	8.0	0.0	6.0	1.5	9.5	3.5	10.5	5.5	15.5	7.5	12.0	4.5
8	8.5	0.0	11.0	0.0	6.5	4.0	10.5	5.0	12.0	7.5	11.5	4.0
9	8.0	0.5	7.5	1.5	8.5	3.5	9.5	6.0	14.5	6.5	8.5	5.0
10	5.0	1.0	8.0	2.5	9.0	3.5	13.5	5.5	14.5	7.0	8.0	4.0
11	8.0	0.5	10.0	0.5	10.0	4.0	14.5	6.0	13.5	6.5	10.5	3.5
12	5.0	0.0	8.5	1.0	8.0	4.0	14.5	6.0	16.0	7.0	12.0	4.0
13	4.0	2.0	8.0	0.5	10.0	4.5	15.0	6.0	17.0	7.0	12.0	3.5
14	6.0	0.0	12.0	0.5	9.0	4.0	15.0	6.0	13.5	7.5	12.5	4.5
15	6.0	0.0	13.0	2.0	9.0	4.0	16.0	8.0	13.0	8.0	10.5	3.5
16	8.0	0.0	9.5	2.0	8.0	4.0	15.0	7.0	12.5	7.0	11.0	2.5
17	8.5	0.0	8.0	2.0	10.5	4.0	15.0	---	10.0	7.0	11.5	2.5
18	6.0	0.0	10.0	1.0	10.0	3.5	15.5	---	13.0	6.0	10.5	3.0
19	7.0	0.0	7.0	2.0	8.0	4.5	14.5	---	13.5	8.0	8.0	4.5
20	6.0	0.0	11.0	1.5	8.5	4.0	12.0	---	15.5	7.0	9.5	3.0
21	7.0	0.0	9.0	1.0	10.0	3.5	14.0	---	11.0	6.0	9.0	2.0
22	9.0	0.0	7.0	0.5	8.5	4.0	15.5	---	12.0	5.5	10.0	2.0
23	10.0	0.0	8.0	0.5	9.0	4.5	12.5	---	11.0	5.5	10.0	3.0
24	10.0	0.5	10.5	1.0	11.5	4.0	11.5	---	13.0	5.5	7.0	2.0
25	7.0	1.0	8.5	1.5	11.5	4.0	13.0	7.5	10.5	6.5	8.5	2.0
26	5.0	0.0	9.5	1.5	11.5	4.0	12.0	7.0	12.0	6.0	8.5	1.5
27	6.0	0.0	7.0	1.5	11.5	4.0	15.5	7.0	12.0	6.0	8.5	1.5
28	8.5	0.0	9.0	2.0	13.0	4.0	16.0	7.5	12.0	7.5	9.0	3.0
29	11.0	0.5	9.0	1.5	11.0	4.5	16.0	7.0	11.5	7.0	8.5	2.5
30	9.0	2.0	9.0	3.0	13.0	5.5	16.0	7.0	13.5	6.0	8.5	1.0
31	---	---	9.0	2.0	---	---	14.0	7.5	11.0	6.0	---	---

ARKANSAS RIVER BASIN

07083000 HALFMOON CREEK NEAR MALTA, COLO.--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	ALDRIN (UG/L)	CHLOR- DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- AZINON (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)
JAN. 20...	6.4	.00	.0	.00	.00	.00	.00	.00	.00
AUG. 17...	22	.00	.0	.00	.00	.00	.00	.00	.00

DATE	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	MALA- THION (UG/L)	METHYL PARA- THION (UG/L)	PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
JAN. 20...	.00	.00	.00	.00	.00	.00	.00	.00	.00
AUG. 17...	.00	.00	.00	.00	.00	.00	.00	.00	.00

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- SOLVED GROSS ALPHA AS U-NAT. (PC/L)	SUS- PENDE GROSS ALPHA AS U-NAT. (PC/L)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDE GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDE GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDE GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED RA-226 (RAOON METHOD) (PC/L)	DIS- SOLVED NATURAL URANIUM (U) (UG/L)
FEB. 15...	.3	<.1	.8	<.4	2.4	<.4	1.9	<.4	.02	.13

INSTANTANEDUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
OCT. 07...	1320	5.0	11	0	.00
JUNE 14...	1900	9.0	160	16	6.9
JULY 20...	1700	11.0	43	4	.46
SEP. 20...	1115	4.0	22	1	.06

ARKANSAS RIVER BASIN

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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 upstream from Sand Creek, 0.7 mile downstream from Grape Creek, and 0.7 mile upstream from First Street Bridge in Canon City.

DRAINAGE AREA.--3,117 sq mi.

PERIOD OF RECORD.--Chemical analyses: November 1963 to September 1965, January 1966 to September 1968, October 1970 to September 1972.
Sediment records: October 1970 to September 1972.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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- LITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
OCT. 14...	288	13	40	10	37	9.2	13	1.9	144	0	118	41
NOV. 30...	340	13	20	10	36	8.5	12	1.9	141	0	116	36
DEC. 09...	328	14	20	60	44	11	17	2.4	151	0	124	35
JAN. 18...	356	14	20	0	41	9.9	12	2.6	162	0	133	33
FEB. 14...	268	14	30	10	38	9.8	13	2.6	155	0	127	33
MAR. 13...	288	12	20	92	37	9.7	14	2.2	147	0	121	34
APR. 27...	272	10	60	50	29	7.7	9.8	1.8	105	0	86	34
JUNE 02...	2760	6.7	230	30	15	3.1	3.8	1.1	58	0	48	23
JULY 18...	1080	7.8	20	0	21	4.4	6.2	1.1	71	0	58	21
AUG. 07...	1060	7.5	70	0	21	4.6	5.4	1.4	68	0	56	21
SEP. 29...	160	12	180	10	39	9.4	12	2.0	141	0	116	37

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 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)	TEMPER- ATURE (DEG C)
OCT. 14...	7.5	.5	.07	.010	194	.26	130	12	.5	308	8.0	12.0
NOV. 30...	6.7	.6	.24	.010	185	.25	120	9	.5	296	8.1	1.0
DEC. 09...	12	.6	.23	.010	211	.29	160	31	.6	326	7.9	1.0
JAN. 18...	6.3	.3	.32	.010	200	.27	140	10	.4	319	7.9	.0
FEB. 14...	8.3	.5	.29	.030	197	.27	140	8	.5	332	8.2	2.5
MAR. 13...	--	.6	.33	.020	196	.27	130	12	.5	315	8.2	9.0
APR. 27...	7.3	.5	.13	.000	152	.21	100	18	.4	249	7.9	10.5
JUNE 02...	3.0	.4	.33	.000	86	.12	50	3	.2	135	7.3	15.0
JULY 18...	3.0	.3	.00	.000	100	.14	71	12	.3	162	7.5	19.5
AUG. 07...	2.9	.4	.04	.000	98	.13	71	16	.3	156	7.8	19.0
SEP. 29...	9.2	.7	.08	.000	191	.26	140	20	.4	310	8.0	14.0

ARKANSAS RIVER BASIN

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

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
OCT.							
21...	1730	9.0	304	10	8.2	--	--
29...	1355	2.0	380	22	23	--	--
NOV.							
10...	1650	4.5	356	32	31	--	--
30...	1350	1.0	340	15	14	--	--
30...	1530	1.0	340	15	13	--	--
DEC.							
09...	1250	1.0	328	270	239	--	--
23...	1230	.5	376	77	78	--	--
JAN.							
18...	1510	.0	356	95	91	--	--
26...	1045	.0	284	37	28	--	--
FEB.							
14...	1140	2.5	268	26	19	--	--
28...	1430	8.0	332	18	16	--	--
MAR.							
13...	1145	9.0	288	18	14	--	--
30...	1450	7.0	204	34	19	--	--
APR.							
18...	1320	--	525	50	71	--	--
27...	1510	10.5	272	19	14	--	--
MAY							
15...	1540	17.0	236	10	6.4	--	--
JUNE							
02...	1710	15.0	2750	491	3650	9	11
20...	1315	16.0	2140	73	422	--	--
JULY							
18...	1200	19.5	1080	25	73	--	--
31...	1820	21.0	1340	56	203	--	--
AUG.							
07...	1450	19.0	1060	38	109	--	--
SEP.							
14...	1440	17.0	246	33	22	--	--
22...	1115	11.0	324	32	28	--	--
29...	1410	14.0	160	12	5.2	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 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.						
21...	--	--	--	--	--	--
29...	--	--	--	--	--	--
NOV.						
10...	--	--	--	--	--	--
30...	--	--	--	--	--	--
30...	--	--	--	--	--	--
DEC.						
09...	--	--	--	--	--	--
23...	--	--	--	--	--	--
JAN.						
18...	--	39	61	84	91	100
26...	--	--	--	--	--	--
FEB.						
14...	--	--	--	--	--	--
28...	--	--	--	--	--	--
MAR.						
13...	--	--	--	--	--	--
30...	--	--	--	--	--	--
APR.						
18...	--	--	--	--	--	--
27...	--	--	--	--	--	--
MAY						
15...	--	--	--	--	--	--
JUNE						
02...	16	36	57	81	97	100
20...	--	--	--	--	--	--
JULY						
18...	--	42	62	84	100	--
31...	--	--	--	--	--	--
AUG.						
07...	--	--	--	--	--	--
SEP.						
14...	--	--	--	--	--	--
22...	--	23	25	30	49	100
29...	--	--	--	--	--	--

ARKANSAS RIVER BASIN

45

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 miles downstream from Willow Spring Creek and 5.4 miles southeast of Portland.

DRAINAGE AREA.--4,280 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1964 to September 1972.
Sediment records: October 1964 to September 1972.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (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)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PD- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	ALKA- LINITY AS CaCO ₃ (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)
OCT.												
15...	324	10	10	40	75	24	34	2.8	162	0	133	190
NOV.												
29...	381	12	80	50	67	20	27	2.5	169	3	144	160
DEC.												
09...	354	14	50	70	69	20	28	2.6	174	0	143	160
JAN.												
17...	324	14	20	20	72	25	32	4.5	196	0	161	190
FEB.												
14...	279	13	0	50	72	26	35	3.4	179	0	147	200
MAR.												
13...	276	12	30	50	65	21	31	2.8	170	0	139	160
APR.												
27...	351	11	30	60	58	19	28	2.6	145	0	119	150
JUNE												
03...	2620	7.0	110	30	22	5.1	7.1	1.2	63	0	52	38
JULY												
18...	966	8.2	20	0	31	7.6	11	1.3	87	0	71	55
AUG.												
07...	1020	8.0	80	0	33	8.2	11	1.8	88	0	72	65
SEP.												
29...	215	9.6	50	20	69	23	34	3.0	142	0	116	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 CONSTITU- ENTS) (MG/L)	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- MHDS)	PH (UNITS)	TEMPER- ATURE (DEG C)
OCT.												
15...	10	.5	.02	.010	426	.58	290	150	.9	653	7.8	16.0
NOV.												
29...	9.2	.6	.44	.030	580	.79	250	110	.7	603	8.4	4.0
DEC.												
09...	11	.7	.51	.030	393	.53	250	110	.8	612	7.6	.0
JAN.												
17...	10	.3	.60	.040	447	.61	280	120	.8	665	7.7	.5
FEB.												
14...	14	.6	.52	.050	455	.62	290	140	.9	702	8.2	5.5
MAR.												
13...	12	.7	.25	.050	390	.53	250	110	.9	586	8.3	13.0
APR.												
27...	11	.6	.29	.020	353	.48	220	100	.8	563	8.0	--
JUNE												
03...	2.4	.4	.13	.010	115	.16	76	24	.4	190	7.4	16.0
JULY												
18...	4.0	.4	.01	.000	161	.22	110	37	.5	276	7.7	23.0
AUG.												
07...	4.0	.4	.02	.18	175	.24	120	44	.4	285	8.1	24.0
SEP.												
29...	11	.7	.00	.000	410	.56	270	150	.9	620	8.2	17.0

ARKANSAS RIVER BASIN

07099200 ARKANSAS RIVER NEAR PORTLAND, COLO.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
OCT.							
15...	1300	16.0	324	37	32	--	--
21...	1455	9.5	369	46	46	--	--
NOV.							
09...	1615	8.0	461	33	41	--	--
29...	1700	4.0	381	50	51	--	--
DEC.							
14...	1555	5.0	373	30	30	--	--
21...	1210	2.5	354	34	33	--	--
JAN.							
17...	1330	.5	315	73	62	--	--
26...	1440	2.0	270	19	14	--	--
FEB.							
14...	1440	5.5	279	12	9.0	--	--
29...	1615	11.0	348	40	38	--	--
MAR.							
13...	1740	13.0	276	21	16	--	--
31...	1440	10.0	239	15	9.7	--	--
APR.							
19...	1430	13.0	632	75	128	--	--
27...	1115	11.0	351	42	40	--	--
MAY							
15...	1845	21.0	270	8	5.8	--	--
JUNE							
03...	1610	16.0	2620	390	2760	11	16
19...	1310	15.0	2070	120	671	--	--
JULY							
19...	1225	23.0	1110	91	273	--	--
31...	1430	23.5	1190	60	193	--	--
AUG.							
07...	1750	24.0	1020	61	168	--	--
26...	1015	19.0	369	17	17	--	--
SEP.							
14...	1750	20.0	288	31	24	--	--
29...	1620	17.0	215	8	4.6	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 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.						
15...	--	--	--	--	--	--
21...	--	--	--	--	--	--
NOV.						
09...	--	--	--	--	--	--
29...	--	--	--	--	--	--
DEC.						
14...	--	--	--	--	--	--
21...	--	--	--	--	--	--
JAN.						
17...	--	--	--	--	--	--
26...	--	--	--	--	--	--
FEB.						
14...	--	--	--	--	--	--
29...	--	--	--	--	--	--
MAR.						
13...	--	--	--	--	--	--
31...	--	--	--	--	--	--
APR.						
19...	--	--	--	--	--	--
27...	--	--	--	--	--	--
MAY						
15...	--	--	--	--	--	--
JUNE						
03...	24	51	73	93	100	--
19...	--	--	--	--	--	--
JULY						
19...	--	52	69	81	95	100
31...	--	--	--	--	--	--
AUG.						
07...	--	--	--	--	--	--
26...	--	--	--	--	--	--
SEP.						
14...	--	49	66	79	100	--
29...	--	--	--	--	--	--

ARKANSAS RIVER BASIN

47

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 miles upstream from Caddoa Creek, 1.7 miles downstream from John Martin Dam, and 2.9 miles southeast of Hasty.

DRAINAGE AREA.--18,917 sq mi, of which 785 sq mi is probably noncontributing.

PERIOD OF RECORD.--Chemical analyses: August 1942 to August 1943, October 1945 to July 1949, January 1951 to September 1972.

Water temperatures: January 1951 to September 1972.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)	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- LITY AS CAC73 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
OCT. 12...	79	15	20	110	350	140	360	5.5	321	0	263	1800
NOV. 02...	92	13	10	50	220	83	220	6.1	270	0	221	1000
DEC. 07...	2.3	17	20	2100	370	180	490	6.7	414	0	340	2200
JAN. 05...	2.8	19	130	1600	390	180	490	8.0	416	0	341	2300
FEB. 03...	3.3	21	10	1600	430	190	550	7.0	421	0	345	2500
MAR. 07...	25	15	30	550	330	150	380	8.0	333	0	273	1900
APR. 05...	1150	11	60	100	340	150	380	9.6	318	0	261	1800
MAY 02...	48	11	30	770	400	180	470	11	351	0	288	2300
JUNE 06...	395	9.8	30	0	91	34	75	4.9	147	0	121	390
JULY 06...	896	8.1	20	30	99	32	84	7.5	129	0	106	420
AUG. 04...	994	12	60	0	130	38	81	6.3	177	0	145	490
SEP. 06...	325	11	20	30	140	43	100	7.7	175	0	144	590

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2350	2200	4100	---	3900	3700	3000	2800	1600	1100	2200	3500
2	2350	1900	3900	---	3800	3500	3000	2900	1500	1200	2700	1100
3	2430	2200	4000	3600	3800	3700	2900	3000	1350	1000	2200	1250
4	2500	2600	---	3600	3900	---	2900	3000	1100	1100	1100	1200
5	2600	2800	---	3750	---	---	2850	3000	850	825	900	1450
6	2700	2700	3900	4000	---	3000	2900	2600	900	925	1200	1100
7	2830	---	3800	3900	3500	3000	2900	2750	1000	1250	1250	1250
8	2800	2900	4000	---	3900	3200	2900	2800	1000	1500	1400	1650
9	2900	3000	4000	---	3700	3000	2900	2900	950	2800	1600	2000
10	2930	3000	3800	4000	3700	3100	2850	2800	750	1700	2050	2400
11	3000	2900	---	4000	3500	---	2800	2200	750	1600	2900	2600
12	2980	2980	---	4000	---	---	2900	1800	900	1800	4000	2850
13	3000	---	4000	3050	---	3400	2900	2200	1200	1400	3000	1000
14	3000	---	4000	3050	3750	3300	2900	2600	1200	1600	3000	900
15	2950	3000	4000	---	3650	3000	2900	2800	1300	2000	2900	1900
16	2900	3000	4000	---	3650	2950	2900	2800	1300	2050	3100	1100
17	3100	3000	3900	3900	3650	2950	3000	2900	1500	2100	3500	1100
18	3000	2800	---	3950	3600	---	3000	3000	1100	2800	3500	1130
19	2000	2800	---	3950	---	---	2800	3000	1150	3500	3500	1130
20	2000	---	3600	3600	---	3100	2800	3000	1100	4000	3500	1330
21	2500	---	3750	3800	---	3000	2900	2900	1350	4000	3500	2150
22	2600	4000	4000	---	3600	3000	3000	3000	1250	4000	3500	2800
23	2400	3900	4000	---	3700	3000	3000	3000	1200	950	3300	2900
24	2250	3900	---	3750	3800	3000	3000	2900	1100	1250	3000	3000
25	2400	---	---	3850	---	---	2900	2600	1300	1900	3300	3000
26	2200	3980	---	3900	---	3100	2800	1400	1300	2200	2600	3000
27	2400	---	3980	3900	---	3000	2800	1600	1300	2900	3000	3300
28	2400	4000	3980	3850	3800	2900	2600	1700	1250	3000	3000	3400
29	2350	4000	4000	---	3800	2900	2800	1050	1300	3050	3200	3400
30	2100	4100	4000	---	---	3000	3000	1100	1250	1600	3200	3500
31	2050	---	---	3900	---	3000	---	1600	---	1700	3500	---

ARKANSAS RIVER BASIN

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

EXTREMES, 1971-72.--Specific conductance: Maximum daily, 4,100 micromhos Nov. 30, Dec. 1; minimum daily, 750 micromhos June 10, 11.

Water temperatures: Maximum, 23°C Aug. 5, 15; minimum, 2°C Oct. 30.

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 1971 TO SEPTEMBER 1972

DATE	DIS- SOLVED CHLORIDE (CL) (MG/L)	DIS- SOLVED FLUORIDE (F) (MG/L)	DIS- SOLVED NITRATE PLUS NITRITE (N) (MG/L)	DIS- SOLVED ORTHOPHOSPHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	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)	TEMPER- ATURE (DEG C)
OCT.												
12...	89	1.0	1.8	.020	2930	3.98	1500	1200	4.1	3650	7.8	16.0
NOV.												
02...	61	1.1	2.6	.030	1750	2.38	890	670	3.2	2330	7.8	8.0
DEC.												
07...	140	1.0	1.3	.010	3620	4.92	1700	1300	5.2	4440	7.7	6.0
JAN.												
05...	140	1.0	1.6	.010	3740	5.09	1700	1400	5.2	4390	7.6	8.0
FEB.												
03...	150	1.2	2.1	.000	4070	5.54	1900	1500	5.6	4630	7.5	8.5
MAR.												
07...	2.0	1.1	.52	.000	2950	4.01	1400	1200	4.4	3700	7.7	12.0
APR.												
05...	200	1.1	.03	.010	3050	4.15	1500	1200	4.3	3560	7.6	9.5
MAY												
02...	140	1.1	1.1	.010	3690	5.02	1700	1500	4.9	4240	7.6	17.0
JUNE												
06...	24	.8	1.6	.050	709	.96	370	250	1.7	1010	7.6	22.5
JULY												
06...	20	.7	.93	.000	739	1.01	380	270	1.9	1060	7.6	19.0
AUG.												
04...	19	.8	1.6	.010	871	1.18	480	340	1.6	1230	7.2	24.0
SEP.												
06...	33	.8	1.9	.010	1020	1.39	530	380	1.9	1380	7.7	21.0

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

ARKANSAS RIVER BASIN

49

07133000 ARKANSAS RIVER AT LAMAR, COLO.

LOCATION.-- Lat 38°06'24", long 102°37'04", in SE¼ sec.30, T.22 S., R.46 W., Prowers County, at gaging station at downstream side of bridge on U.S. Highways 50 and 287, 1.4 miles north of courthouse in Lamar.

DRAINAGE AREA.--19,780 sq mi, of which 950 sq mi is probably noncontributing.

PERIOD OF RECORD.-- Chemical analyses: November 1963 to September 1965, September 1969 to August 1972 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	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 NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
OCT.												
01...	5.2	290	150	273	0	224	2500	110	2.4	.09	.21	4000
NOV.												
01...	7.3	380	200	306	0	251	2600	160	3.1	.18	.10	4420
DEC.												
07...	29	380	190	350	0	287	2500	140	5.7	.06	.23	3950
JAN.												
06...	27	400	190	329	0	270	2500	140	5.4	.11	.070	4160
FEB.												
02...	17	410	210	295	0	242	2600	150	5.1	.12	.11	4340
MAR.												
07...	3.8	420	220	340	0	279	2700	160	3.7	.09	.040	4720
APR.												
05...	736	350	150	318	0	261	1900	110	.21	.61	.94	3540
MAY												
02...	6.2	400	210	339	0	278	2700	170	2.9	.10	.040	5080
JUNE												
06...	8.5	170	78	193	0	158	930	55	1.5	.09	.19	1760
JULY												
06...	450	91	29	146	0	120	380	17	.98	1.2	.61	788
AUG.												
03...	54	240	100	218	0	179	1500	66	1.4	.01	1.7	2390

DATE	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	SUS- PENDE SOLIDS (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)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)
OCT.											
01...	5.44	56.2	98	1300	1100	4570	7.7	17.0	10	70	20
NOV.											
01...	6.01	87.1	60	1800	1500	4830	7.7	13.5	20	30	34
DEC.											
07...	5.37	309	--	1700	1400	--	7.7	4.5	30	100	26
JAN.											
06...	5.66	303	47	1800	1500	4610	7.7	7.0	0	10	19
FEB.											
02...	5.90	199	72	1900	1600	4960	8.0	.0	80	100	18
MAR.											
07...	6.42	48.4	24	2000	1700	4960	7.8	16.5	0	4	26
APR.											
05...	4.81	7040	263	1500	1200	3640	7.9	18.0	80	200	22
MAY											
02...	6.91	85.0	23	1900	1600	4970	8.1	16.0	20	10	17
JUNE											
06...	2.39	40.4	120	750	590	2040	7.5	18.0	20	90	17
JULY											
06...	1.07	958	373	350	230	959	7.6	17.0	30	400	32
AUG.											
03...	3.25	348	3060	1000	830	2730	7.5	21.0	30	0	130

ARKANSAS RIVER BASIN

07137500 ARKANSAS RIVER NEAR COOLIDGE, KANS.

LOCATION.--Lat 38°01'34", long 102°00'41", in NE¼NW¼ sec.26, T.23 S., R.43 W., Hamilton County, at gaging station at bridge, 1 mile south of Coolidge and 1.9 miles downstream from Colorado-Kansas State line.

DRAINAGE AREA.--25,410 sq mi, of which 1,708 sq mi is probably noncontributing.

PERIOD OF RECORD.--Chemical analyses: November 1963 to September 1968, October 1969 to September 1972.
Water temperatures: October 1964 to September 1968.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	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 NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
OCT.												
01...	32	360	170	252	0	207	2400	120	2.6	.17	.19	4140
NOV.												
01...	110	350	160	277	0	227	2100	140	2.5	.18	.31	3840
DEC.												
08...	140	380	170	332	0	272	2300	150	3.5	.08	.20	4140
JAN.												
06...	82	450	200	340	0	279	2700	190	3.9	.13	.050	4400
FEB.												
02...	117	410	200	344	0	282	2700	170	3.8	.13	.17	4660
MAR.												
07...	128	380	180	293	0	240	2400	160	3.2	.11	.11	4460
APR.												
06...	470	340	150	313	0	257	1900	110	.58	.45	.36	3560
MAY												
02...	44	400	170	299	0	245	2400	190	2.2	.12	.000	4560
JUNE												
05...	34	370	170	269	0	221	2400	160	1.7	.27	.10	4160
JULY												
03...	132	310	140	278	0	228	1900	130	2.4	.29	.70	3320
AUG.												
04...	236	220	87	199	0	163	1300	77	1.6	.01	.72	2190
SEP.												
05...	212	270	110	246	0	202	1600	99	1.4	--	--	--

DATE	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	SUS- PENDE SOLIDS (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)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)
OCT.											
01...	5.63	358	57	1600	1400	4450	7.7	24.0	10	40	7
NOV.											
01...	5.22	1140	158	1500	1300	4190	7.7	11.0	5	100	28
DEC.											
08...	5.63	1570	124	1600	1400	4430	7.7	.0	20	90	20
JAN.											
06...	5.98	974	30	1900	1700	4990	7.9	.0	3	10	20
FEB.											
02...	6.34	1470	52	1800	1600	4860	7.7	.0	30	50	15
MAR.											
07...	6.07	1540	59	1700	1400	4460	7.7	6.0	0	40	17
APR.											
06...	4.84	4520	167	1500	1200	3670	7.9	11.0	80	100	15
MAY											
02...	6.20	542	31	1700	1500	4610	8.1	6.5	20	30	14
JUNE											
05...	5.66	382	88	1600	1400	4430	7.0	29.0	20	50	31
JULY											
03...	4.52	1180	164	1400	1100	3740	8.0	15.0	70	200	16
AUG.											
04...	2.98	1400	1130	910	740	2520	7.7	19.0	30	400	58
SEP.											
05...	3.51	1480	--	1100	920	3160	8.1	25.0	--	--	--

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.11E., Conejos County, at gaging station at highway bridge, 6 miles north of Colorado-New Mexico State line, 7 miles downstream from Culebra Creek, 10 miles east of Lobatos, and 14 miles east of Antonito.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACD3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
OCT.												
05...	671	18	3.4	68	0	56	45	2.8	.17	.09	.27	80
NOV.												
09...	466	24	4.3	82	0	67	54	3.6	.00	.54	.13	184
DEC.												
08...	280	31	5.9	117	0	96	44	7.2	.20	.08	.10	238
JAN.												
11...	275	26	5.0	99	0	81	40	7.8	.31	.17	.10	184
FEB.												
09...	265	25	4.6	96	0	79	29	4.2	.22	.07	.090	160
MAR.												
02...	532	24	4.4	86	0	71	54	5.8	.19	.07	.15	174
APR.												
13...	154	45	9.2	134	6	120	110	13	.00	.04	.18	364
MAY												
04...	60	72	15	168	10	154	220	24	.05	.07	.18	548
JUNE												
15...	118	78	21	187	0	153	300	29	.00	--	--	674
JULY												
12...	40	61	16	162	0	133	220	25	.14	.12	.020	530
AUG.												
15...	108	25	4.7	81	15	91	27	4.3	.04	.10	.18	174
SEP.												
21...	139	27	4.9	94	7	88	36	5.3	.00	--	--	--

DATE	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	SUS- PENDED SOLIDS (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)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)
OCT.											
05...	.11	145	27	59	3	170	7.4	14.5	20	20	27
NOV.											
09...	.25	232	23	78	10	229	8.4	6.0	10	5	15
DEC.											
08...	.32	180	13	100	6	294	7.6	.0	7	3	8
JAN.											
11...	.25	137	18	85	4	234	7.2	.0	3	3	20
FEB.											
09...	.22	115	17	81	3	230	7.5	.0	5	3	0
MAR.											
02...	.24	250	38	78	8	224	7.7	4.0	3	10	11
APR.											
13...	.50	151	71	150	30	456	8.6	11.0	10	10	8
MAY											
04...	.75	88.8	71	240	87	756	8.5	18.5	20	10	19
JUNE											
15...	.92	215	--	280	130	944	7.8	20.0	40	7	--
JULY											
12...	.72	57.2	37	220	85	773	6.4	24.0	30	20	23
AUG.											
15...	.24	50.8	--	82	0	230	8.6	25.0	30	20	8
SEP.											
21...	.23	63.4	--	88	0	254	8.5	18.0	--	--	--

RIO GRANDE BASIN

08251500 RIO GRANDE NEAR LOBATOS, COLO.--Continued

DRAINAGE AREA.--7,700 sq mi, approximately (includes 2,940 sq mi in closed basin in northern part of San Luis Valley, Colo.).

PERIOD OF RECORD.--Chemical analyses: September 1969 to September 1972.

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- SOLVED GROSS ALPHA AS U-NAT. (PC/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (PC/L)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDED GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L)	DIS- SOLVED NATURAL URANIUM (U) (UG/L)
NOV.										
09...	1.1	.2	3.3	.6	3.7	.8	2.9	.8	.03	.87
DEC.										
08...	2.0	<.1	6.1	<.4	4.5	.6	3.6	.6	.03	--
JAN.										
11...	.6	<.1	1.7	<.4	4.5	.6	3.8	.6	.02	--
FEB.										
09...	<.6	.2	<1.8	.8	4.5	.9	3.8	.8	.02	--
MAR.										
02...	.8	2.0	2.5	6.0	4.0	3.5	3.3	2.9	.02	.88
APR.										
13...	4.7	.3	14	1.0	7.1	1.9	5.7	1.7	.03	--
MAY										
04...	3.6	.4	11	1.3	9.7	1.8	8.1	1.5	.04	--
JUNE										
15...	6.3	<.1	19	<.4	13	1.5	10	1.4	.04	--
JULY										
12...	3.5	.6	11	1.7	9.3	2.4	7.6	2.0	.04	--
AUG.										
15...	1.2	.7	3.8	2.0	5.5	1.7	4.3	1.5	.06	--
SEP.										
21...	.6	.4	1.8	1.3	4.4	1.7	3.5	1.5	--	--

PART 9. COLORADO RIVER BASIN

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COLORADO RIVER MAIN STEM

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 mile downstream from gaging station and 3.5 miles upstream from Beaver Creek.

DRAINAGE AREA.--825 sq mi (at gaging station).

PERIOD OF RECORD.--Chemical analyses: April 1947 to September 1972.

Water temperatures: April 1949 to September 1972.

EXTREMES.--Period of record.--Specific conductance (1947-71): Maximum daily, 263 micromhos Mar. 5, 1967; minimum daily, 48 micromhos June 27, 1947.

Water temperatures (1949-71): Maximum, 28°C July 17, 1971; minimum, freezing point on many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SiO ₂) (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)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	ALKA- LINIT- AS CACO ₃ (MG/L)	DIS-SOLVED SULFATE (SO ₄) (MG/L)
OCT. 28...	X 81	13	100	10	18	2.9	6.3	1.2	X 80	0	66	6.0
NOV. 11...	97	13	70	40	18	3.2	6.4	1.4	80	0	66	6.5
DEC. 08...	67	15	60	20	17	2.8	7.0	1.3	79	0	65	5.5
JAN. 11...	70	15	100	20	17	3.4	7.6	1.8	78	0	64	10
FEB. 09...	70	14	80	17	16	3.1	6.6	1.3	72	0	59	8.0
MAR. 08...	98	14	100	50	17	3.5	7.7	2.1	73	0	60	8.8
APR. 05...	135	13	180	30	19	3.3	8.8	1.8	81	4	73	7.2
MAY 03...	250	12	220	20	14	2.4	4.8	2.3	60	0	49	6.1
JUNE 20...	775	13	130	20	15	2.5	4.1	1.0	62	0	51	9.0
JULY 12...	247	13	130	36	19	3.2	7.2	1.4	86	0	71	11
AUG. 02...	163	13	170	20	19	3.2	14	1.8	85	0	69	8.2
SEP. 13...	98	12	240	10	18	2.8	7.0	1.7	77	0	69	7.4

DATE	DIS-SOLVED CHLD- 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 CONSTITUENTS) (MG/L)	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)	TEMPER- ATURE (DEG C)
OCT. 28...	1.3	.2	.03	.010	X 89	X .12	57	0	.4	X 140	X 7.5	X 3.0
NOV. 11...	1.6	.2	.04	.060	90	.12	58	0	.4	140	7.8	.0
DEC. 08...	1.9	.5	.08	.060	90	.12	54	0	.4	136	7.5	.0
JAN. 11...	1.7	.0	.21	.040	96	.13	56	0	.4	132	7.1	.0
FEB. 09...	1.7	.2	.18	.030	87	.12	53	0	.4	128	7.4	.0
MAR. 08...	1.9	.3	.21	.040	92	.13	57	0	.4	138	7.5	.0
APR. 05...	1.6	.2	.00	.010	99	.13	61	0	.5	149	8.7	8.0
MAY 03...	1.7	.2	.01	.010	73	.10	45	0	.3	108	7.5	12.0
JUNE 20...	.8	.2	.27	.000	77	.10	48	0	.3	113	7.8	12.0
JULY 12...	1.0	.4	.01	.010	99	.13	61	0	.4	148	6.9	19.0
AUG. 02...	2.0	.3	.00	.020	104	.14	61	0	.8	145	7.6	16.0
SEP. 13...	1.4	.3	.01	.020	89	.12	56	0	.4	132	7.8	15.0

COLORADO RIVER MAIN STEM

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

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	126	140	---	---	160	140	120	100	142	140	141
2	---	130	142	---	---	164	142	128	110	145	142	140
3	---	128	146	---	---	167	138	130	115	142	142	138
4	---	128	142	---	---	---	140	125	118	142	141	138
5	---	130	140	---	---	---	138	134	98	140	140	140
6	---	132	142	---	---	---	142	135	98	142	138	141
7	---	144	140	---	---	---	140	115	98	142	141	139
8	---	140	146	---	---	146	145	114	110	140	142	141
9	142	142	142	---	---	---	142	118	115	150	139	142
10	140	125	148	---	---	---	148	120	120	148	141	140
11	140	140	142	---	---	---	140	115	118	145	140	138
12	140	138	140	---	---	---	160	110	110	142	141	139
13	140	140	142	---	---	---	150	118	125	145	139	138
14	135	142	140	---	---	---	145	120	130	145	139	140
15	---	138	138	---	---	---	148	115	110	142	140	139
16	---	140	142	---	---	---	155	118	115	138	139	140
17	---	142	142	---	---	---	145	120	118	142	135	142
18	---	145	140	---	---	---	148	119	100	142	128	141
19	---	140	138	---	---	---	158	118	98	145	130	145
20	---	138	142	---	---	---	145	116	140	142	125	140
21	---	142	140	---	---	---	150	118	140	140	121	139
22	---	142	142	---	---	---	140	118	130	148	141	141
23	---	145	140	---	---	---	142	116	125	141	140	141
24	---	142	142	---	---	---	135	114	115	141	138	122
25	160	135	140	---	---	---	160	114	118	142	140	135
26	140	145	136	---	---	---	145	115	110	141	135	132
27	---	138	142	---	---	---	158	113	130	143	138	128
28	148	135	138	---	---	---	160	112	140	130	141	140
29	145	140	138	---	---	---	168	99	128	140	140	122
30	140	142	138	---	---	---	155	99	130	142	121	139
31	142	---	136	---	---	---	---	99	---	143	138	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

EAGLE RIVER BASIN

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09069000 EAGLE RIVER AT GYPSUM, COLO.

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

DRAINAGE AREA.--944 sq mi (at gaging station).

PERIOD OF RECORD.--Chemical analyses: April 1947 to September 1972.

Water temperatures: April 1949 to September 1972.

EXTREMES, 1971-72.--Specific conductance: Maximum daily, 1,010 micromhos Nov. 4, 7, 12; minimum daily, 120 micromhos June 3.

Water temperatures: Maximum, 23°C July 30, Aug. 13; minimum, freezing point on many days during December to February.

Period of record.--Specific conductance: Maximum daily, 1,850 micromhos Aug. 6, 1949; minimum daily, 120 micromhos June 3, 1972.

Water temperatures (1949-72): 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.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SI02) (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 (SD4) (MG/L)
OCT.												
18...	275	14	10	90	220	34	32	4.1	246	0	202	480
NOV.												
29...	256	10	10	210	140	26	59	3.0	190	0	156	320
DEC.												
13...	212	10	10	420	130	24	67	3.3	185	0	152	280
JAN.												
24...	184	10	40	350	130	27	63	3.6	185	0	152	300
FEB.												
22...	215	9.6	40	460	120	26	63	4.8	173	0	142	280
MAR.												
20...	260	11	70	620	85	20	45	2.5	148	0	121	190
APR.												
19...	382	7.9	40	360	61	14	29	1.8	122	0	100	120
MAY												
15...	394	7.6	100	190	64	14	25	2.2	120	0	98	130
JUNE												
19...	2240	6.1	110	50	41	7.3	8.0	1.5	84	0	69	69
JULY												
24...	315	14	120	63	220	35	22	4.8	250	0	205	490
AUG.												
28...	242	15	260	20	230	38	23	4.4	251	0	206	560
SEP.												
28...	246	12	40	70	170	29	26	3.1	236	0	194	380
DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
OCT.												
18...	39	.2	.56	.010	947	1.29	690	490	.5	1310	7.8	8.0
NOV.												
29...	82	.2	.54	.010	736	1.00	460	300	1.2	1090	7.8	2.5
DEC.												
13...	94	.1	.45	.010	702	.95	420	270	1.4	1090	7.9	.5
JAN.												
24...	91	.2	.53	.030	719	.98	440	280	1.3	1110	7.9	.5
FEB.												
22...	85	.2	.61	.000	677	.92	410	260	1.4	1030	7.6	4.0
MAR.												
20...	59	.2	.25	.010	487	.66	290	170	1.1	788	8.0	8.0
APR.												
19...	35	.0	.14	.050	330	.45	210	110	.9	542	8.0	9.0
MAY												
15...	32	.0	.13	.000	335	.46	220	120	.7	553	7.9	12.0
JUNE												
19...	9.3	.1	.14	.020	184	.25	130	63	.3	296	7.2	10.0
JULY												
24...	19	.2	.29	.010	929	1.26	690	490	.4	1250	7.4	15.5
AUG.												
28...	23	.3	.29	.010	1020	1.39	730	520	.4	1330	7.7	17.0
SEP.												
28...	28	.4	.20	.000	766	1.04	540	350	.5	1110	7.9	10.0

EAGLE RIVER BASIN

09069000 EAGLE RIVER AT GYPSUM, COLO.--Continued

SPECIFIC CONDUCTANCE (MICRDMHDS AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	530	1000	910	710	810	900	710	410	130	320	710	810
2	530	830	1000	1000	1000	900	710	500	130	320	700	810
3	500	830	1000	900	1000	900	800	420	120	330	700	710
4	820	1010	900	710	1000	900	710	420	140	320	710	700
5	820	830	900	710	910	910	800	430	130	400	710	710
6	830	1000	1000	710	1000	900	710	400	135	400	700	710
7	820	1010	900	710	910	810	610	330	130	410	700	800
8	900	1000	900	900	1000	900	610	400	125	410	700	530
9	820	1000	900	910	910	900	600	340	130	410	710	600
10	820	1000	910	910	910	900	500	340	130	430	710	600
11	830	1000	900	910	910	900	500	340	140	440	710	620
12	830	1010	900	1000	1000	810	500	340	130	440	800	700
13	830	1000	900	900	910	800	420	400	140	440	800	700
14	900	1000	900	710	910	900	425	400	300	440	800	710
15	830	830	900	710	910	710	500	500	300	440	810	700
16	830	830	810	710	910	710	500	340	300	430	800	700
17	820	830	810	910	910	810	410	400	300	500	800	800
18	830	820	710	910	1000	710	500	230	215	500	800	700
19	830	510	710	910	1000	710	500	220	220	520	800	800
20	830	510	710	1000	1000	710	500	210	215	540	710	710
21	830	510	710	1000	1000	800	500	200	230	520	710	600
22	830	820	710	910	1000	710	520	200	230	520	710	600
23	530	830	900	1000	910	710	520	220	230	600	800	710
24	830	800	900	910	910	710	480	230	220	530	710	610
25	830	820	910	910	910	700	400	200	240	600	710	610
26	830	820	900	1000	910	700	380	210	240	600	710	700
27	1000	800	710	910	910	610	410	200	300	600	800	710
28	1000	800	900	910	1000	710	460	200	320	610	800	710
29	820	800	710	710	9000	710	460	200	320	610	710	710
30	820	510	720	710	---	710	420	140	320	610	810	700
31	830	---	710	710	---	710	---	140	---	700	810	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

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 miles upstream from Glenwood Springs and 6.5 miles upstream from Roaring Fork River.

DRAINAGE AREA.--4,560 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: October 1941 to September 1972.
Water temperatures: May 1949 to September 1972.

EXTREMES, 1971-72.--Specific conductance: Maximum daily, 790 micromhos Jan. 4; minimum daily, 210 micromhos June 2, 8.
Water temperatures: Maximum, 21°C July 18, 29, 30, Aug. 12, 13; minimum, 1°C on several 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 (1949-72): 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 1971 TO SEPTEMBER 1972

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- LILITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
OCT. 18...	1330	11	60	80	64	13	65	2.5	143	0	117	120
NOV. 29...	1410	10	130	20	50	11	57	2.3	116	0	95	93
DEC. 13...	1160	11	30	120	60	13	72	2.8	139	0	114	96
JAN. 24...	1210	11	220	100	54	11	63	2.9	123	0	101	82
FEB. 22...	1240	11	30	83	57	11	60	2.8	122	0	100	100
MAR. 20...	1730	13	70	110	46	11	46	3.3	127	0	104	91
APR. 19...	2080	10	60	70	43	9.4	39	2.2	120	0	98	70
MAY 15...	2880	11	80	40	39	9.3	31	2.0	111	0	91	60
JUNE 19...	5100	9.2	140	10	38	7.7	21	2.3	98	0	80	55
JULY 24...	1550	5.7	110	8	59	12	52	2.6	133	0	109	110
AUG. 28...	1480	8.9	90	20	59	12	56	3.0	130	0	107	100
SEP. 28...	1440	9.0	50	30	63	14	59	2.9	139	0	114	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)	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)	TEMPER- ATURE (DEG C)
OCT. 18...	92	.2	.07	.010	439	.60	210	96	1.9	733	7.7	8.0
NOV. 29...	81	.3	.09	.010	362	.49	170	75	1.9	634	7.7	1.0
DEC. 13...	110	.2	.15	.020	434	.59	200	89	2.2	760	7.6	.5
JAN. 24...	91	.2	.13	.010	377	.51	180	79	2.0	666	7.6	.0
FEB. 22...	89	.2	.19	.000	392	.53	190	87	1.9	667	7.6	1.5
MAR. 20...	55	.3	.05	.000	328	.45	160	56	1.6	551	7.7	6.5
APR. 19...	49	.4	.05	.040	282	.38	150	48	1.4	476	7.7	7.5
MAY 15...	41	.1	.06	.000	248	.34	140	45	1.2	433	8.0	11.0
JUNE 19...	23	.2	.21	.010	206	.28	130	46	.8	339	7.9	12.0
JULY 24...	73	.3	.01	.000	380	.52	200	88	1.6	631	7.2	18.0
AUG. 28...	77	.4	.05	.000	381	.52	200	90	1.7	670	7.6	18.0
SEP. 28...	85	.4	.02	.000	412	.56	210	100	1.8	724	8.0	11.0

COLORADO RIVER MAIN STEM

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

SPECIFIC CONDUCTANCE (MICRODMHOS AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	570	600	595	725	650	600	520	390	220	400	530	600
2	600	650	620	700	720	600	500	380	210	410	480	590
3	600	600	710	650	690	650	560	370	220	380	490	540
4	520	640	590	790	710	650	550	360	220	400	490	535
5	610	630	650	760	640	620	560	340	230	440	490	570
6	595	500	660	680	600	630	530	330	230	410	570	570
7	600	600	620	640	595	600	500	---	220	450	550	590
8	610	530	640	---	595	590	490	400	210	460	550	540
9	620	550	755	610	600	630	445	380	215	---	570	550
10	640	560	670	650	595	620	420	340	220	490	---	530
11	560	595	655	660	595	600	417	325	240	460	---	560
12	640	520	700	640	600	590	400	335	230	500	545	540
13	640	595	670	610	600	560	370	350	240	510	550	570
14	585	520	620	690	600	560	410	345	260	540	550	570
15	660	590	640	700	640	540	430	380	270	540	530	580
16	660	600	---	700	610	520	450	340	270	550	530	590
17	670	580	---	680	595	535	460	300	280	520	540	570
18	650	590	---	630	590	520	430	280	290	540	545	590
19	680	580	---	600	595	500	420	270	305	550	540	580
20	640	540	---	595	600	470	410	260	300	530	540	570
21	650	640	---	595	595	600	420	240	310	545	350	520
22	660	600	---	595	590	550	440	240	320	550	400	560
23	585	600	---	600	585	500	430	250	305	550	510	580
24	560	530	590	600	600	490	420	270	300	560	600	570
25	680	530	590	640	620	500	340	270	300	520	620	610
26	585	600	590	645	600	510	360	260	320	480	570	610
27	660	---	620	610	625	520	370	240	330	500	540	480
28	650	600	---	610	640	510	400	240	340	500	580	440
29	440	560	---	620	600	520	410	230	360	510	580	450
30	650	560	655	640	---	530	400	230	390	520	590	580
31	660	---	700	670	---	530	---	220	---	530	575	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.5	5.0	1.0	4.0	2.0	3.0	6.0	10.0	13.0	18.0	27.0	15.0
2	10.0	5.0	2.0	2.0	1.0	3.0	7.0	11.0	13.0	18.0	19.0	16.0
3	10.0	4.0	1.5	2.0	1.0	5.0	8.0	12.0	13.0	18.0	27.0	15.0
4	11.0	5.0	1.5	1.0	1.0	5.0	9.0	12.5	13.0	18.0	19.0	17.0
5	12.0	4.0	2.0	1.0	1.0	7.0	10.0	11.0	12.0	18.0	18.5	17.0
6	13.0	4.0	2.0	1.0	1.5	7.5	10.0	10.0	13.0	17.0	19.0	16.0
7	13.0	4.0	1.5	1.0	1.0	8.0	10.0	---	14.0	17.0	19.0	16.0
8	13.0	4.0	1.0	---	2.0	8.0	11.0	11.0	13.0	17.0	27.0	16.0
9	12.0	4.0	1.0	2.0	2.0	8.0	12.0	12.0	13.0	---	27.5	16.0
10	13.0	6.0	2.0	2.0	1.5	8.0	10.0	10.5	15.0	17.0	---	15.0
11	12.0	5.0	2.0	2.0	1.0	9.0	10.0	11.0	15.0	18.0	---	16.0
12	12.0	5.0	1.0	2.0	1.0	9.0	11.0	10.0	15.0	19.0	21.0	17.0
13	11.0	5.0	1.0	1.0	1.0	10.0	8.0	9.0	14.0	19.0	21.0	17.0
14	11.0	5.0	1.5	1.0	1.0	8.0	8.0	10.0	14.0	20.0	19.0	17.0
15	11.0	4.0	1.5	1.0	2.0	7.0	8.0	14.0	15.0	20.0	27.0	17.0
16	10.0	5.0	1.0	1.0	2.0	8.0	11.0	15.0	15.0	20.0	19.0	15.0
17	10.0	5.0	---	1.0	2.0	9.0	11.0	14.0	14.0	20.0	20.0	16.0
18	9.0	4.0	---	2.0	2.0	10.0	10.0	13.0	15.0	21.0	20.0	16.0
19	9.0	5.0	1.0	1.0	2.0	9.0	10.0	12.0	13.0	20.0	18.0	14.0
20	9.0	3.0	---	1.0	3.0	8.0	9.0	13.0	14.0	20.0	19.0	14.0
21	8.0	2.0	---	1.0	3.0	8.0	9.0	12.0	16.0	19.0	18.5	14.0
22	9.0	3.0	---	1.5	3.5	9.0	10.0	10.0	15.0	20.0	18.0	14.0
23	9.0	3.0	2.0	1.0	4.0	8.0	11.0	10.5	16.0	20.0	17.0	14.0
24	10.0	3.0	1.0	1.0	4.0	8.5	11.5	11.0	16.0	19.0	17.0	14.0
25	10.0	4.0	2.0	2.0	2.5	9.0	11.0	13.0	16.0	19.0	19.0	14.0
26	9.0	3.5	2.0	2.0	2.0	8.0	8.0	13.0	16.0	20.0	18.5	12.0
27	9.5	---	1.0	1.0	4.0	6.0	7.0	14.0	16.0	20.0	20.0	13.0
28	9.5	2.5	---	1.0	4.0	5.5	9.0	13.0	17.0	20.0	20.0	13.0
29	6.0	3.0	---	1.0	3.0	4.5	11.0	13.0	18.0	21.0	19.0	13.0
30	4.0	3.0	2.0	1.0	---	4.5	11.0	13.0	19.0	21.0	18.0	13.0
31	4.0	---	2.0	1.0	---	5.0	---	12.5	---	20.0	17.0	---

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 miles upstream from Cameo, 0.4 mile upstream from Plateau Creek, and 5.9 miles downstream from gaging station.

DRAINAGE AREA.--8,050 sq mi, approximately (at gaging station).

PERIOD OF RECORD.--Chemical analyses: October 1933 to September 1972.

Water temperatures: April 1949 to September 1972.

EXTREMES, 1971-72.--Specific conductance: Maximum daily, 1,100 micromhos on many days during the year; minimum daily, 300 micromhos on several days during June.

Water temperatures: Maximum, 22°C July 31; minimum, freezing point on many days during December to February.

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 (1949-72): Maximum, 24°C Aug. 16, 1962; minimum, freezing point on many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SI02) (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)	ALCALINITY AS CaCO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT. 20...	2230	10	20	40	79	20	130	3.9	174	0	143	170
DEC. 01...	2210	9.3	10	40	70	18	120	3.6	164	0	135	160
15...	2100	11	10	70	77	18	130	4.3	178	0	146	170
JAN. 31...	1650	11	20	90	79	18	150	5.0	180	0	148	190
FEB. 16...	2290	9.1	20	50	73	18	120	3.8	164	0	135	180
MAR. 22...	2680	12	40	60	60	16	91	4.3	153	0	126	130
APR. 17...	3120	9.6	30	20	57	13	90	3.4	140	0	115	110
MAY 17...	3010	9.5	60	30	50	14	64	2.6	135	0	111	92
JUNE 21...	8300	8.4	60	0	43	9.4	34	2.1	110	0	90	68
JULY 26...	2730	7.0	40	0	76	17	110	4.2	165	0	135	160
AUG. 30...	2430	9.0	30	10	79	17	120	4.1	175	0	144	160
SEP. 27...	2340	9.7	50	10	80	19	120	4.9	177	0	145	160

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
OCT. 20...	170	.2	.56	.010	671	.91	280	140	3.4	1170	7.7	8.5
DEC. 01...	160	.3	.29	.010	623	.85	250	110	3.3	1050	8.1	2.0
15...	180	.2	.37	.020	680	.92	270	120	3.5	1170	7.9	.0
JAN. 31...	200	.3	.32	.010	743	1.01	270	120	4.0	1270	8.1	.0
FEB. 16...	160	.3	.31	.000	646	.88	260	120	3.3	1070	8.0	4.0
MAR. 22...	120	.3	.50	.020	511	.70	220	90	2.7	873	7.8	10.0
APR. 17...	110	.1	.54	.050	465	.63	200	81	2.8	803	7.7	11.0
MAY 17...	78	.2	.40	.010	379	.52	180	72	2.1	662	7.7	15.0
JUNE 21...	42	.2	.25	.010	262	.36	150	56	1.2	457	7.9	15.0
JULY 26...	150	.3	.49	.000	608	.83	260	120	3.0	1040	7.1	21.0
AUG. 30...	170	.4	.08	.000	646	.88	270	120	3.2	1120	8.1	19.0
SEP. 27...	160	.5	.06	.020	642	.87	280	130	3.1	1100	8.3	15.5

COLORADO RIVER MAIN STEM

09095500 COLORADO RIVER NEAR CAMEO, COLO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1000	1000	950	950	1100	1100	950	750	350	560	975	1080
2	900	1000	950	950	1100	1100	900	750	300	580	1000	1080
3	900	1000	950	1100	1100	1100	900	750	300	580	1000	1000
4	900	1000	1000	1100	1100	1100	950	750	300	580	1000	1000
5	950	1000	1000	1000	1100	1100	950	700	300	570	1000	1000
6	950	1000	1000	1000	1100	1000	950	700	300	600	975	1000
7	950	950	1000	1000	1100	1000	950	700	300	600	975	1000
8	950	950	1000	950	1100	1000	950	650	300	600	975	950
9	950	950	1000	950	1100	1000	850	600	300	650	1000	950
10	950	950	1100	950	1100	1000	850	600	300	650	1000	950
11	950	950	1100	900	1100	1000	850	600	300	700	1000	950
12	950	950	1100	900	1100	1000	850	600	350	700	1000	950
13	950	950	1100	850	1100	1000	800	600	350	700	1000	950
14	950	950	1100	850	1100	1000	800	600	350	750	1100	950
15	950	950	1100	1000	1100	1000	750	600	350	750	1100	950
16	950	950	1100	1000	1100	1000	750	600	400	850	1100	950
17	950	950	1100	950	1000	900	750	650	400	850	1100	950
18	950	950	1100	900	1000	900	800	650	400	850	1100	950
19	1000	950	1100	900	1000	900	800	500	400	850	1100	950
20	1000	950	1100	900	1000	900	750	500	425	850	1050	1100
21	1000	960	1100	900	1000	950	750	450	425	900	1050	1000
22	1000	960	1000	900	1000	950	800	400	425	900	1050	1000
23	1000	960	1000	950	1000	950	800	350	450	900	1100	1000
24	1000	950	900	1000	1000	950	800	350	450	900	1100	1000
25	1000	950	900	1000	1000	950	800	400	450	950	1100	1000
26	1000	950	700	1000	1100	950	750	400	450	950	1100	1000
27	1000	950	700	1000	1100	950	750	350	475	975	1100	1000
28	950	950	700	1000	1100	1000	750	350	475	975	1100	1000
29	950	950	700	1000	1100	1000	700	350	475	975	1100	1000
30	950	950	800	1100	---	1000	700	350	500	975	1080	1000
31	950	---	800	1100	---	1000	---	350	---	975	1080	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

PLATEAU CREEK BASIN

61

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 from State Highway 65, 1.1 miles upstream from mouth, and 4 miles northeast of Cameo.

DRAINAGE AREA.--592 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1969-71 (partial-record station), October 1971 to September 1972.

Water temperatures: October 1971 to September 1972.

EXTREMES, 1971-72.--Specific conductance: Maximum daily, 900 micromhos Nov. 26; minimum daily, 350 micromhos Apr. 24, 25, 26, 29.

Water temperatures: Maximum, 23°C Aug. 17, 18, 23, 31, Sept. 3; minimum, freezing point on several days during December.

Period of record.--Specific conductance: Maximum daily, 900 micromhos Nov. 26, 1971; minimum daily, 350 micromhos Apr. 24, 25, 26, 29, 1972.

Water temperatures: Maximum, 23°C Aug. 17, 18, 23, 31, Sept. 3, 1972; minimum, freezing point on several days during December 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (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)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	ALKA- LITY AS CACO ₃ (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)
DEC. 01...	89	29	10	38	62	38	73	4.5	392	0	372	120
FEB. 17...	104	28	20	10	57	33	63	4.2	372	0	305	98
MAY 19...	292	15	140	0	30	12	25	3.1	163	0	134	48
AUG. 30...	84	28	60	0	50	36	66	6.0	349	0	286	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)	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- MHDS)	PH (UNITS)	TEMPER- ATURE (DEG C)
DEC. 01...	12	534	.47	.020	1070	1.46	310	0	1.8	801	8.0	2.5
FEB. 17...	11	.5	.50	.030	480	.65	280	0	1.6	735	8.3	5.5
MAY 19...	6.2	.2	.27	.020	221	.30	120	0	1.0	342	7.8	12.0
AUG. 30...	8.2	.6	.00	.010	467	.64	270	0	1.7	714	8.0	20.5

PLATEAU CREEK BASIN

09105000 PLATEAU CREEK NEAR CAMEO, COLO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	680	750	700	700	700	675	450	375	500	750	750	790
2	700	750	700	700	700	650	450	375	500	750	650	780
3	700	750	700	675	700	675	475	400	475	750	775	790
4	670	650	700	700	650	700	460	400	500	750	775	750
5	650	775	710	700	650	650	460	375	550	750	750	750
6	650	750	700	700	650	650	450	375	500	750	750	750
7	710	750	700	700	700	650	450	400	550	750	750	690
8	700	775	700	675	675	650	490	400	525	750	750	700
9	725	750	700	675	650	650	460	425	550	750	780	700
10	750	800	700	600	650	580	460	450	550	725	780	700
11	760	850	700	600	700	580	450	450	550	750	780	700
12	750	800	700	600	650	560	450	450	580	750	790	800
13	710	890	690	600	700	560	450	450	550	750	750	700
14	750	850	690	650	700	540	425	450	550	750	750	750
15	750	875	700	600	675	540	400	450	550	750	750	750
16	800	750	650	700	690	540	400	450	550	750	750	750
17	770	750	700	750	650	510	400	500	560	750	750	750
18	770	750	700	600	700	510	400	500	560	700	750	750
19	750	750	700	650	690	500	375	500	570	700	750	600
20	750	750	700	650	675	600	375	500	580	750	790	650
21	700	780	650	600	700	500	375	500	575	800	775	650
22	750	800	675	600	750	510	375	450	575	750	775	650
23	750	750	700	700	700	510	375	475	550	750	775	650
24	750	850	700	700	700	500	350	500	550	750	775	650
25	750	890	700	700	690	490	350	500	550	700	790	650
26	750	900	700	700	700	450	350	500	600	725	790	650
27	750	890	700	750	650	450	400	500	600	725	790	700
28	750	850	710	700	650	450	400	500	750	725	790	700
29	700	850	700	700	675	490	350	450	750	750	790	700
30	700	700	700	650	---	450	375	500	750	750	790	700
31	700	---	700	650	---	460	---	450	---	750	790	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

GUNNISON RIVER BASIN

63

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 mile downstream from Whitewater Creek, 0.5 mile south of Whitewater, and 8 miles southeast of Grand Junction.

DRAINAGE AREA.--7,928 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1931 to September 1972.
Water temperatures: April 1949 to September 1972.

EXTREMES, 1971-72.--Specific conductance: Maximum daily, 1,900 micromhos July 18; minimum daily, 500 micromhos Feb. 11.

Water temperatures: Maximum, 25°C July 18, 22, Aug. 16; minimum, 1°C on several days during December to February.

Period of record.--Specific conductance: Maximum daily, 2,730 micromhos Sept. 10, 1956; minimum daily, 280 micromhos May 23, 1948.

Water temperatures (1949-72): Maximum, 30°C Aug. 13, 1958; minimum, freezing point on many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SiO ₂) (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 (HCO ₃) (MG/L)	CARBONATE (CO ₃) (MG/L)	ALKALINITY AS CaCO ₃ (MG/L)	DIS-SOLVED SULFATE (SO ₄) (MG/L)
OCT. 21...	126D	17	10	30	150	52	94	4.0	215	0	176	58D
DEC. 03...	1300	14	10	70	72	28	54	3.0	155	0	127	270
17...	3010	14	20	20	76	27	53	3.4	167	0	137	270
JAN. 31...	1120	13	20	10	60	23	35	2.2	148	0	121	200
FEB. 16...	2520	12	10	0	69	28	51	3.2	156	0	128	240
MAR. 23...	1370	14	10	25	78	32	65	3.6	171	0	140	320
APR. 17...	849	13	40	30	94	32	67	3.7	164	0	135	350
MAY 19...	2030	13	50	20	92	33	57	3.1	149	0	122	360
JUNE 22...	1110	14	60	0	160	48	91	4.3	202	0	166	580
JULY 26...	680	12	50	8	220	68	130	5.6	222	0	182	900
SEP. 01...	736	16	50	50	200	65	120	5.7	234	0	192	840
27...	1500	16	30	20	160	53	95	4.6	224	0	184	580

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO-PHOSPHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)
OCT. 21...	13	.5	1.4	.010	1020	1.39	590	410	1.7	1370	8.0	10.0
DEC. 03...	12	.3	.76	.010	533	.72	290	170	1.4	784	8.0	3.5
17...	13	.3	.81	.020	543	.74	300	160	1.3	786	7.9	1.0
JAN. 31...	10	.3	.44	.010	418	.57	240	120	1.0	623	8.1	.0
FEB. 16...	21	.3	.54	.000	504	.69	290	160	1.3	733	8.2	4.0
MAR. 23...	10	.4	.93	.000	611	.83	330	190	1.6	871	8.2	11.5
APR. 17...	11	.4	.94	.000	656	.89	370	230	1.5	921	7.9	11.5
MAY 19...	10	.4	1.1	.010	647	.88	370	240	1.3	932	7.9	14.5
JUNE 22...	13	.6	1.5	.010	1020	1.39	600	430	1.6	1390	8.0	20.0
JULY 26...	21	.8	1.9	.000	1480	2.01	830	650	2.0	1920	7.2	24.0
SEP. 01...	16	.8	1.7	.000	1390	1.89	770	570	1.9	1800	8.0	19.0
27...	12	.8	1.4	.000	1040	1.41	620	430	1.7	1410	8.1	15.5

GUNNISON RIVER BASIN

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

SPECIFIC CONDUCTANCE (MICRDMHOS AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1120	1190	700	560	750	560	775	1010	725	1500	1680	1580
2	1300	1000	675	600	575	600	800	990	725	1500	1700	1550
3	1250	1000	700	700	525	610	925	1000	725	1550	1750	1600
4	1300	1000	675	950	525	650	850	1000	750	1600	1800	1600
5	1300	950	700	575	625	640	850	900	775	1750	1710	1630
6	950	925	725	700	600	650	950	900	800	1700	1750	1550
7	820	875	1080	650	650	750	850	900	800	1700	1730	1500
8	820	925	650	610	760	610	875	890	775	1700	1750	1550
9	1300	925	600	650	600	600	1050	950	800	1730	1800	1500
10	1220	850	610	750	750	950	800	950	750	1750	1110	1500
11	1150	750	700	1000	500	1300	750	975	800	1810	1500	1400
12	1180	750	650	620	610	700	750	910	775	1750	1800	1400
13	1150	750	700	600	600	590	800	875	750	1750	1180	1350
14	1020	775	1000	650	775	700	690	950	850	1700	1600	1350
15	1000	850	700	550	800	600	700	1000	950	1700	1700	1350
16	1000	775	750	550	700	560	825	1050	1100	1750	1650	1350
17	1010	1000	850	600	625	550	825	975	1250	1800	1650	1350
18	1300	860	750	950	800	675	800	850	1100	1900	1500	1250
19	1400	775	650	560	610	650	1000	850	1100	1800	1500	1200
20	1400	700	650	600	600	650	950	800	1130	1800	1450	1250
21	1120	490	1000	580	650	700	975	950	1150	1800	1350	1300
22	1500	900	675	610	650	725	975	690	1200	1700	1580	1200
23	1550	1000	600	600	625	750	1100	750	1200	1700	1500	1210
24	1150	700	700	750	650	725	1000	825	1230	1700	1500	1290
25	1200	675	750	850	700	810	1000	890	1250	1700	1550	1250
26	1150	1100	900	675	600	800	950	900	1200	1700	1550	1230
27	1200	1100	975	675	625	825	900	850	1230	1620	1600	1250
28	1300	1100	1400	625	575	825	925	800	1480	1600	1610	1250
29	1200	1000	750	600	800	725	1000	800	1380	1650	1610	1250
30	1150	1100	800	600	---	675	1000	750	1400	1600	1600	1200
31	1190	---	750	550	---	625	---	700	---	1610	1610	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

DOLORES RIVER BASIN

65

09179500 DOLORES RIVER AT GATEWAY, COLO.

LOCATION.--Lat 38°40'52", long 108°05'18", Mesa County, 500 ft downstream from bridge on State Highway 141, and 0.3 miles west of Gateway.

DRAINAGE AREA.--4,350 sq mi.

PERIOD OF RECORD.--Chemical analyses: January 1970 to September 1972.

REMARKS.--Records of discharge are given for Dolores River near Cisco, Utah.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972.

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	ALKA- LITY AS CaCO ₃ (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLD- FIDE (CL) (MG/L)
OCT. 21...	330	7.5	180	44	99	7.0	144	0	118	620	99
DEC. 02...	300	8.1	120	59	790	38	192	0	157	440	1200
16...	200	8.5	110	48	350	18	211	0	173	370	540
FEB. 03...	200	9.0	140	79	1200	56	246	0	202	510	1900
17...	183	7.5	100	46	350	18	197	0	162	350	690
MAR. 23...	560	8.3	49	13	75	5.2	142	0	116	84	120
APR. 21...	440	6.4	68	23	170	9.8	152	0	125	170	230
MAY 18...	320	6.8	92	41	330	18	160	0	131	290	500
JUNE 22...	410	7.0	71	23	180	11	114	0	94	190	300
JULY 27...	150	5.4	180	69	490	28	171	0	140	640	750
AUG. 31...	10	3.7	220	130	1200	69	207	0	170	940	2000
SEP. 28...	135	8.7	210	77	290	16	154	0	126	820	390

DATE	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	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)	TEMPER- ATURE (DEG C)
OCT. 21...	.81	.020	1130	1.54	630	510	1.7	1630	7.1	7.5
DEC. 02...	.87	.060	2750	3.74	540	380	15	4680	7.8	1.5
16...	.71	.010	1550	2.11	470	300	7.0	2690	7.9	.0
FEB. 03...	.94	.010	4020	5.47	670	470	20	6870	7.8	.0
17...	.71	.000	1660	2.26	440	280	7.3	2600	7.6	4.0
MAR. 23...	.86	.000	428	.58	180	59	2.5	740	7.5	9.5
APR. 21...	1.1	.030	757	1.03	260	140	4.6	1310	7.2	10.0
MAY 18...	1.8	.060	1360	1.85	400	270	7.2	2480	7.6	15.5
JUNE 22...	2.1	.020	847	1.15	270	180	4.8	1510	6.9	18.5
JULY 27...	2.3	.000	2260	3.07	730	590	7.9	3640	7.2	21.0
AUG. 31...	2.4	.010	4680	6.36	1100	910	16	7420	7.8	17.0
SEP. 28...	2.6	.000	1900	2.58	840	710	4.4	2860	7.3	14.0

GREEN RIVER BASIN

09251000 YAMPA RIVER NEAR MAYBELL, COLO.

LOCATION.--Lat 40°32'20", long 108°05'18", Moffat County, at county bridge, 1 mile north of Maybell and about 3.5 miles downstream from gaging station.

DRAINAGE AREA.--3,410 sq mi, approximately (at gaging station).

PERIOD OF RECORD.--Chemical analyses: November 1950 to September 1972.

Water temperatures: November 1950 to February 1972 (discontinued).

Sediment records: December 1950 to May 1958.

EXTREMES, 1971-72.

Period of record.--Specific conductance: Maximum daily, 947 micromhos Sept. 24, 1955; minimum daily, 94 micromhos June 14, 1959.

Water temperatures: Maximum, 29°C Aug. 5, 1963; minimum, freezing point on many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (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)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	ALKA- LINITY AS CACO ₃ (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)
OCT.												
19...	330	5.8	20	0	38	18	37	2.1	183	0	150	92
NOV.												
30...	410	8.5	120	30	39	19	41	2.1	192	0	157	100
DEC.												
14...	294	12	20	10	50	24	52	2.8	236	0	194	120
JAN.												
26...	420	10	50	10	45	24	54	2.7	204	0	167	140
FEB.												
23...	600	11	120	50	44	25	53	3.9	184	0	151	150
MAR.												
21...	1570	14	90	20	43	19	31	3.6	147	0	121	120
APR.												
20...	2360	10	120	10	30	11	28	1.9	117	0	96	56
MAY												
16...	3100	10	120	0	21	7.1	9.4	1.3	92	0	75	30
JUNE												
20...	3740	7.7	90	10	14	4.2	6.3	1.1	64	0	53	16
JULY												
25...	236	4.3	40	8	35	14	37	2.2	160	0	131	75
AUG.												
29...	113	4.7	20	10	39	18	51	3.0	173	17	170	94
SEP.												
26...	180	4.3	70	20	33	17	58	4.1	179	5	155	73

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTIT- TUENTS) (MG/L)	DIS- SOLVED SOLIDS 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)	TEMPER- ATURE (DEG C)
OCT.												
19...	14	.2	.04	.000	297	.40	170	19	1.2	489	8.0	8.0
NOV.												
30...	17	.3	.01	.010	322	.44	180	18	1.3	526	8.0	1.0
DEC.												
14...	18	.2	.07	.030	395	.54	220	30	1.5	644	7.9	.0
JAN.												
26...	23	.4	.27	.24	401	.55	210	44	1.6	626	8.1	1.0
FEB.												
23...	20	.2	.52	.000	400	.54	210	62	1.6	632	7.5	1.0
MAR.												
21...	11	.2	.71	.010	317	.43	190	65	1.0	483	7.7	6.5
APR.												
20...	7.6	.1	.29	.020	204	.28	120	24	1.1	303	7.8	7.0
MAY												
16...	3.2	.3	.04	.000	128	.17	82	6	.5	215	7.9	15.5
JUNE												
20...	2.7	.2	.04	.040	84	.11	52	0	.4	127	8.1	16.0
JULY												
25...	20	.3	.00	.010	267	.36	150	14	1.3	441	7.3	22.5
AUG.												
29...	23	.4	.00	.010	335	.46	170	1	1.7	558	8.4	24.0
SEP.												
26...	18	.4	.01	.010	301	.41	150	0	2.0	477	8.4	14.0

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	420	600	620	540	650	---	---	---	---	---	---	---
2	420	600	600	560	600	---	---	---	---	---	---	---
3	420	600	550	580	600	---	---	---	---	---	---	---
4	420	650	540	580	600	---	---	---	---	---	---	---
5	440	650	560	580	600	---	---	---	---	---	---	---
6	440	650	580	560	600	---	---	---	---	---	---	---
7	440	650	560	560	600	---	---	---	---	---	---	---
8	440	700	560	560	600	---	---	---	---	---	---	---
9	460	700	580	560	600	---	---	---	---	---	---	---
10	460	700	600	540	600	---	---	---	---	---	---	---
11	460	700	600	540	560	---	---	---	---	---	---	---
12	460	700	580	540	560	---	---	---	---	---	---	---
13	460	750	600	520	560	---	---	---	---	---	---	---
14	480	700	600	520	540	---	---	---	---	---	---	---
15	480	700	600	520	540	---	---	---	---	---	---	---
16	480	750	580	540	540	---	---	---	---	---	---	---
17	480	750	580	540	540	---	---	---	---	---	---	---
18	480	750	560	540	520	---	---	---	---	---	---	---
19	500	750	560	540	500	---	---	---	---	---	---	---
20	500	700	540	520	580	---	---	---	---	---	---	---
21	540	750	540	520	580	---	---	---	---	---	---	---
22	540	750	520	520	600	---	---	---	---	---	---	---
23	540	750	520	540	650	---	---	---	---	---	---	---
24	560	750	520	540	650	---	---	---	---	---	---	---
25	560	750	520	560	600	---	---	---	---	---	---	---
26	560	800	520	560	600	---	---	---	---	---	---	---
27	560	800	540	580	600	---	---	---	---	---	---	---
28	580	800	540	600	560	---	---	---	---	---	---	---
29	580	800	540	650	560	---	---	---	---	---	---	---
30	580	800	540	650	---	---	---	---	---	---	---	---
31	580	---	540	650	---	---	---	---	---	---	---	---

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.0	0.5	3.0	4.0	---	---	---	---	---	---	---	---
2	16.0	0.5	1.0	1.0	---	---	---	---	---	---	---	---
3	14.0	0.5	3.0	1.0	---	---	---	---	---	---	---	---
4	14.0	1.0	3.0	1.0	---	---	---	---	---	---	---	---
5	16.0	1.0	2.0	1.0	---	---	---	---	---	---	---	---
6	16.0	1.0	2.0	1.0	---	---	---	---	---	---	---	---
7	12.0	0.5	3.0	1.0	---	---	---	---	---	---	---	---
8	14.0	0.5	1.0	1.0	---	---	---	---	---	---	---	---
9	15.0	1.0	2.0	2.0	2.0	---	---	---	---	---	---	---
10	12.0	1.0	2.0	1.0	1.0	---	---	---	---	---	---	---
11	10.0	1.0	3.0	2.0	1.0	---	---	---	---	---	---	---
12	10.0	0.5	2.0	1.0	2.0	---	---	---	---	---	---	---
13	9.0	1.0	1.0	2.0	2.0	---	---	---	---	---	---	---
14	8.0	0.5	2.0	2.0	1.0	---	---	---	---	---	---	---
15	8.0	1.0	3.0	1.0	2.0	---	---	---	---	---	---	---
16	6.0	1.0	2.0	3.0	2.0	---	---	---	---	---	---	---
17	6.0	0.5	3.0	2.0	2.0	---	---	---	---	---	---	---
18	4.0	1.5	2.0	3.0	3.0	---	---	---	---	---	---	---
19	2.0	1.0	4.0	2.0	4.0	---	---	---	---	---	---	---
20	3.0	1.0	4.0	3.0	3.0	---	---	---	---	---	---	---
21	3.0	2.0	3.0	3.0	3.0	---	---	---	---	---	---	---
22	3.0	0.5	3.0	3.0	2.0	---	---	---	---	---	---	---
23	2.0	2.0	3.0	3.0	2.0	---	---	---	---	---	---	---
24	3.0	0.5	3.0	2.0	3.0	---	---	---	---	---	---	---
25	3.0	1.0	2.0	2.0	2.0	---	---	---	---	---	---	---
26	1.0	1.0	4.0	2.0	3.0	---	---	---	---	---	---	---
27	2.0	1.0	4.0	2.0	2.0	---	---	---	---	---	---	---
28	2.0	0.5	4.0	2.0	3.0	---	---	---	---	---	---	---
29	2.0	3.0	2.0	3.0	3.0	---	---	---	---	---	---	---
30	1.0	2.0	2.0	2.0	---	---	---	---	---	---	---	---
31	1.0	---	2.0	3.0	---	---	---	---	---	---	---	---

GREEN RIVER BASIN

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 downstream from highway bridge, 6 miles north of Lily, and 10 miles upstream from mouth.

DRAINAGE AREA.--3,730 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: September 1969 to September 1972.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (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)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	ALKA- LINITY AS CaCO ₃ (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)
OCT.												
19...	109	11	60	20	49	14	81	2.3	223	0	183	140
NOV.												
30...	176	16	20	60	53	15	81	2.3	228	0	187	140
DEC.												
14...	128	23	10	0	73	20	80	2.7	311	0	255	150
JAN.												
26...	161	16	80	10	41	11	70	2.5	196	0	161	110
FEB.												
23...	1300	9.0	2600	83	26	7.0	52	2.3	140	0	115	70
MAR.												
21...	871	16	50	0	44	13	30	1.8	168	0	138	89
APR.												
20...	1080	15	110	0	31	8.4	19	1.6	130	0	107	42
MAY												
16...	1220	14	60	20	22	4.8	22	1.6	104	0	85	36
JUNE												
20...	1240	12	50	0	21	4.6	15	1.2	95	0	78	27
JULY												
25...	12	16	40	8	68	16	99	4.0	230	0	189	210
AUG.												
29...	.82	15	50	30	77	19	120	5.3	218	0	179	280
SEP.												
27...	.96	15	30	40	84	20	130	3.9	227	0	186	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)	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)	TEMPER- ATURE (DEG C)
OCT.												
19...	27	.4	.11	.010	435	.59	180	0	2.6	683	8.0	2.0
NOV.												
30...	39	.5	.05	.010	459	.62	190	7	2.5	714	8.1	.0
DEC.												
14...	26	.3	.05	.030	528	.72	260	10	2.1	813	7.9	.0
JAN.												
26...	34	.3	.11	.050	382	.52	150	0	2.5	605	7.9	2.0
FEB.												
23...	21	.4	.69	.010	262	.36	94	0	2.3	381	7.6	.5
MAR.												
21...	9.9	.4	.12	.010	287	.39	160	26	1.0	436	7.9	5.5
APR.												
20...	6.8	.3	.28	.060	190	.26	110	5	.8	287	7.8	9.0
MAY												
16...	6.3	.3	.18	.000	159	.22	75	0	1.1	248	8.1	14.0
JUNE												
20...	6.6	.3	.06	.020	135	.18	71	0	.8	208	7.3	18.5
JULY												
25...	37	.3	.00	.010	563	.77	240	47	2.8	868	7.7	17.0
AUG.												
29...	51	.3	.00	.010	675	.92	270	92	3.2	1010	8.1	18.5
SEP.												
27...	54	.3	.00	.010	719	.98	290	110	3.3	1130	8.2	7.0

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 downstream from Ryan Gulch and 23 miles northwest of Rio Blanco.

DRAINAGE AREA.--485 sq mi.

PERIOD OF RECORD.--Chemical analyses: December 1970 to September 1972.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (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)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	ALKA- LITY AS CaCO ₃ (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)
OCT. 20...	24	18	30	80	78	82	190	3.3	643	0	527	390
DEC. 01...	18	18	10	0	80	73	160	2.5	578	0	474	330
15...	10	19	10	20	86	77	160	3.1	632	0	518	330
JAN. 27...	18	18	160	10	85	75	160	3.5	587	0	481	330
FEB. 24...	46	13	50	30	51	34	81	3.6	327	0	268	170
MAR. 22...	3.4	21	40	42	89	100	230	4.0	795	0	652	490
APR. 19...	3.7	18	70	190	78	110	300	4.8	870	0	714	510
MAY 17...	4.1	18	40	250	77	110	310	3.7	933	0	765	550
JUNE 21...	6.0	19	100	110	77	98	260	4.1	841	0	690	490
JULY 26...	11	16	60	42	73	84	190	2.9	634	0	520	380
AUG. 30...	8.6	16	30	30	72	76	180	3.3	598	0	490	360
SEP. 25...	3.5	17	30	70	72	98	220	3.0	725	0	595	470

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUD- 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 CONSTITUENTS) (MG/L)	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)	TEMPER- ATURE (DEG C)
OCT. 20...	16	.6	.32	.030	1100	1.50	530	5	3.6	1570	7.9	4.0
DEC. 01...	15	.8	.55	.030	967	1.32	500	26	3.1	1420	7.9	1.5
15...	15	.7	.71	.030	1000	1.36	530	13	3.0	1500	8.1	.0
JAN. 27...	15	.8	.53	.040	979	1.33	520	40	3.1	1390	8.1	1.0
FEB. 24...	11	.4	.51	.010	527	.72	270	0	2.2	809	7.7	1.5
MAR. 22...	20	1.0	.35	.040	1350	1.84	630	0	4.0	1920	8.2	4.5
APR. 19...	22	1.1	.01	.14	1470	2.00	650	0	5.1	2080	8.3	14.0
MAY 17...	25	1.2	.04	.050	1550	2.11	640	0	5.3	2240	8.3	10.5
JUNE 21...	20	1.0	.08	.040	1380	1.88	600	0	4.6	1980	7.6	12.5
JULY 26...	17	.8	.03	.020	1080	1.47	530	8	3.6	1590	7.5	12.0
AUG. 30...	15	.8	.03	.030	1020	1.39	490	2	3.5	1490	7.9	11.0
SEP. 25...	18	1.0	.00	.010	1260	1.71	580	0	4.0	1870	8.1	9.0

GREEN RIVER BASIN

0936210 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 mile downstream from Hutch Gulch, 11 miles southwest of White River and 23 miles northwest of Rio Blanco.

DRAINAGE AREA.--495 sq mi.

PERIOD OF RECORD.--Chemical analyses: December 1970 to September 1972.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (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 CAC03 (MG/L)	DIS- SOLVED SULFATE (SD4) (MG/L)
OCT. 20...	24	18	20	70	78	83	200	3.6	666	0	546	400
NOV. 01...	18	17	10	30	78	76	170	2.6	602	0	494	360
DEC. 15...	10	19	10	20	86	81	180	3.0	666	0	546	360
JAN. 27...	18	18	20	20	83	79	180	3.2	618	0	507	360
FEB. 24...	46	13	70	20	47	34	85	3.5	327	0	268	170
MAR. 22...	3.4	21	40	150	83	100	280	3.9	865	0	709	530
APR. 19...	3.7	17	40	150	72	110	360	4.7	920	24	795	570
MAY 17...	4.1	18	50	210	68	120	440	4.7	1080	0	886	710
JUNE 21...	6.0	19	80	9	68	110	360	4.7	983	0	806	580
JULY 26...	11	9.9	70	17	72	83	240	3.0	681	0	559	420
AUG. 30...	8.6	16	20	10	68	79	200	3.3	629	0	516	380
SEP. 25...	3.5	17	50	50	65	100	270	2.6	781	0	641	500

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 CONSTITUENTS) (MG/L)	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)	TEMPER- ATURE (DEG C)
OCT. 20...	16	.6	.31	.030	1130	1.54	540	0	3.8	1620	7.9	4.0
DEC. 01...	17	.8	.55	.030	1020	1.39	510	14	3.3	1480	7.9	1.0
DEC. 15...	16	.7	.65	.040	1080	1.47	550	2	3.3	1600	8.1	.0
JAN. 27...	16	.8	.52	.040	1050	1.43	530	26	3.4	1490	8.2	.5
FEB. 24...	13	.5	.52	.010	529	.72	260	0	2.3	812	7.6	1.5
MAR. 22...	23	1.0	.37	.050	1470	2.00	620	0	4.9	2080	8.2	3.0
APR. 19...	30	.9	.04	.15	1640	2.23	630	0	6.2	2310	8.4	15.0
MAY 17...	32	1.1	.02	.050	1930	2.62	660	0	7.4	2740	8.3	10.5
JUNE 21...	27	1.1	.04	.070	1650	2.24	620	0	6.3	2360	7.9	13.0
JULY 26...	23	.8	.02	.000	1190	1.62	520	0	4.6	1710	7.4	12.0
AUG. 30...	17	.8	.01	.030	1070	1.46	490	0	3.9	1580	8.0	11.0
SEP. 25...	21	1.0	.05	.020	1360	1.85	570	0	4.9	2030	8.1	11.0

GREEN RIVER BASIN

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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 mile southwest of White River, 1.3 miles upstream from mouth, and 17 miles west of Meeker.

DRAINAGE AREA.--629 sq mi.

PERIOD OF RECORD.--Chemical analyses: December 1970 to September 1972.
Water temperatures: January 1971 to September 1972.

EXTREMES, 1971-72.--Specific conductance: Maximum daily, 9,500 micromhos July 16; minimum daily, 950 micromhos Feb. 20, 21.

Water temperatures: Maximum, 26°C June 6; minimum, freezing point on many days during December to March.

Period of record.--Specific conductance: Maximum daily, 9,500 micromhos July 16, 1972; minimum daily, 687 micromhos Mar. 23, 1971.

Water temperatures: Maximum, 26°C June 6, 1972; minimum, freezing point on many days during the winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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- LITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
OCT.												
20...	17	15	80	40	55	94	490	3.6	1190	0	976	510
DEC.												
01...	26	17	50	300	68	79	370	3.0	1050	0	861	390
15...	16	18	10	0	72	84	500	3.7	1290	0	1060	410
JAN.												
27...	32	17	20	10	71	76	390	4.6	1010	0	828	360
FEB.												
24...	100	14	80	40	62	47	180	4.4	583	0	478	240
MAR.												
22...	7.8	19	70	75	57	96	650	5.7	1600	0	1310	500
APR.												
19...	3.0	8.8	40	20	37	83	1000	5.2	2140	172	2040	420
MAY												
17...	2.2	9.4	90	40	36	95	1400	8.3	3200	75	2750	510
JUNE												
21...	2.2	9.3	70	10	31	88	1300	6.2	3110	0	2550	570
JULY												
26...	1.3	6.1	100	8	18	83	2000	7.1	4690	0	3867	480
AUG.												
30...	4.3	11	80	10	27	83	950	5.1	1500	389	1880	500
SEP.												
25...	4.1	12	60	30	34	90	890	4.4	1920	107	1750	520

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 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)	TEMPER- ATURE (DEG C)
OCT.												
20...	53	1.0	.14	.040	1810	2.46	520	0	9.3	2570	8.1	3.0
DEC.												
01...	47	1.2	.58	.070	1500	2.04	490	0	7.2	2110	8.0	.5
15...	68	1.6	.62	.10	1790	2.43	530	0	9.5	2650	8.1	.0
JAN.												
27...	49	1.2	.54	.070	1470	2.00	490	0	7.7	2040	8.2	.0
FEB.												
24...	31	.7	.77	.010	869	1.18	350	0	4.2	1330	8.0	.5
MAR.												
22...	96	2.0	.59	.070	2220	3.02	540	0	12	3170	8.3	1.0
APR.												
19...	180	4.0	.10	.20	2960	4.03	430	0	21	4530	8.6	15.0
MAY												
17...	280	3.4	.04	.070	3990	5.43	480	0	28	5960	8.6	9.0
JUNE												
21...	230	4.3	.01	.060	3770	5.13	440	0	27	5550	8.2	12.0
JULY												
26...	370	6.5	.00	.090	5280	7.18	390	0	44	7240	8.3	11.0
AUG.												
30...	150	2.9	.02	.070	2860	3.89	410	0	20	4180	8.5	11.0
SEP.												
25...	140	4.7	.47	.040	2750	3.74	460	0	18	4110	8.6	13.5

GREEN RIVER BASIN

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

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3000	2350	2050	2050	1900	1600	3500	5250	8000	5600	6000	4500
2	2900	2400	2100	2000	1900	1700	4000	5500	8000	6000	6000	4750
3	3000	2350	2200	2000	1800	2100	4000	8000	8000	6500	4500	5250
4	3100	2300	2150	2100	1750	1450	4250	8000	6000	5600	3500	5000
5	3200	2450	2100	2050	1700	1700	4500	8000	6000	6500	3500	4750
6	2900	2350	2000	2000	1700	1600	5000	8000	5000	6500	4250	5000
7	2800	2000	2200	1900	1730	1450	5000	8000	6000	6500	4750	4500
8	2850	2200	2300	2100	1730	1800	5000	8000	6000	7500	4750	4250
9	2950	2100	1800	2200	1800	2350	5600	8000	4600	8000	4500	4500
10	2900	2050	2400	2100	1850	2200	5500	8000	5600	9000	4250	4500
11	3000	---	2100	2100	1900	2200	5250	8000	5600	8000	4000	4500
12	2550	---	2000	2100	1900	2400	4800	8000	6000	7300	3750	5000
13	2950	---	1900	2000	1700	2900	4800	8000	6500	6500	3500	3500
14	3000	---	2100	2000	1700	3100	4600	6000	6500	6500	3000	5000
15	2900	---	2100	2050	1700	2600	4800	8000	5600	7000	3500	4750
16	2950	---	2050	2200	1250	3100	5500	8000	6500	9500	4000	4500
17	2800	---	2100	2300	1000	3250	4500	8000	6500	8000	4250	4750
18	2750	---	2050	2100	1000	3500	5100	8000	7000	7500	3750	5250
19	2700	---	2000	2000	1030	3500	5000	8000	5600	7000	4000	5000
20	2600	---	2100	2000	950	3750	5000	8000	4800	8500	4750	5000
21	1650	---	2150	2200	950	3600	5800	8000	6000	9000	4750	4500
22	2200	---	2100	2050	1300	3600	6000	8000	5400	8500	4500	4750
23	2400	---	2000	2000	950	3600	6000	8000	6000	7000	4750	5250
24	2350	---	2000	1900	1400	3600	5250	8000	7000	8500	5250	5000
25	2100	---	2100	1700	1550	3900	5300	8000	6500	8500	5500	4750
26	1900	---	2050	1900	1300	3500	3750	8000	6500	9000	5000	4500
27	2500	---	2000	2000	1400	3500	4500	8000	6000	8500	3750	4750
28	2600	---	2100	1950	1700	3600	5000	8000	6000	9000	5000	4750
29	2450	---	2100	1900	1400	3200	4800	8000	6500	7500	5000	4750
30	2400	---	2000	1800	---	3000	4600	8000	6000	6500	4500	4500
31	2550	---	2100	1900	---	3500	---	8000	---	6500	4750	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.0	5.0	0.0	0.0	0.0	1.0	1.0	8.0	20.0	20.0	14.0	10.5
2	10.0	5.0	0.0	0.0	0.0	3.0	2.0	18.0	20.0	21.0	17.0	11.0
3	14.0	2.0	0.0	0.0	0.0	4.0	2.0	21.0	20.0	22.0	14.0	13.0
4	13.5	4.0	0.0	0.0	0.0	2.0	3.0	20.0	24.0	19.0	14.0	10.0
5	6.0	6.0	0.0	0.0	0.0	3.0	4.0	20.0	24.0	24.0	14.0	14.5
6	9.5	4.0	0.0	0.0	0.0	3.0	8.0	20.0	26.0	14.0	11.0	12.0
7	9.0	5.0	0.0	0.0	0.0	3.0	2.0	19.0	18.0	15.0	11.0	10.0
8	9.0	5.0	0.0	0.0	0.0	1.0	5.0	20.0	18.0	10.0	11.0	9.0
9	8.5	5.0	0.0	0.0	0.0	1.0	3.0	18.0	21.0	12.0	12.0	9.0
10	9.0	5.0	0.0	0.0	0.0	2.0	5.0	12.0	18.0	17.0	11.0	19.0
11	10.0	---	0.0	0.0	0.0	2.0	3.0	12.0	19.0	12.0	13.0	19.0
12	6.5	---	0.0	0.0	0.0	3.0	7.0	11.0	19.0	11.0	13.0	22.0
13	8.5	---	0.0	0.0	1.0	3.0	5.0	12.0	19.0	11.0	13.0	21.0
14	9.5	---	0.0	0.0	1.0	5.0	3.0	15.0	19.0	12.0	15.0	20.0
15	9.0	---	0.0	0.0	0.0	1.0	4.0	20.0	18.0	12.0	14.0	20.0
16	9.0	---	0.0	0.0	0.5	1.0	5.0	19.0	21.0	12.0	13.0	19.0
17	6.0	---	0.0	0.0	1.0	3.0	6.0	19.0	20.0	11.0	12.0	20.0
18	7.5	---	0.0	0.0	1.0	2.5	4.0	19.0	23.0	11.0	15.0	19.0
19	4.0	---	0.0	0.0	1.0	2.0	2.0	19.0	18.0	14.0	14.0	18.5
20	5.0	---	0.0	0.0	1.0	2.0	2.0	18.0	19.0	15.0	13.0	19.0
21	5.5	---	0.0	0.0	1.0	1.0	4.0	19.0	20.0	10.0	10.0	18.0
22	5.0	---	0.0	0.0	2.0	1.0	8.0	19.0	19.0	10.0	11.0	19.0
23	6.0	---	2.0	0.0	2.0	2.0	2.0	19.0	19.0	15.0	9.0	19.0
24	9.0	---	3.0	0.0	1.0	2.5	2.5	19.0	19.0	14.0	9.0	19.0
25	10.0	---	1.0	0.0	1.0	3.0	4.0	18.0	20.0	14.0	9.0	17.0
26	8.0	---	2.0	0.0	0.0	2.0	2.0	19.0	21.0	13.0	10.0	19.0
27	12.0	---	2.0	0.0	0.5	1.0	4.0	19.0	19.0	13.0	14.0	18.5
28	8.0	---	3.0	0.0	1.0	0.0	6.0	19.0	19.0	12.0	25.0	17.0
29	1.0	---	2.0	0.0	4.0	0.0	5.0	19.0	20.0	10.0	20.0	18.0
30	1.0	---	0.0	0.0	---	0.0	6.0	19.0	21.0	11.0	21.0	19.0
31	4.0	---	0.0	0.0	---	1.0	---	19.0	---	15.0	12.0	---

GREEN RIVER BASIN

73

09306500 WHITE RIVER NEAR WATSON, UTAH

LOCATION.--Lat 39°58'46", long 109°10'41", in SE 1/4 SW 1/4 sec. 2, T. 10 S., R. 24 E., Uintah County, at bridge on State Highway 45, 350 ft upstream from gaging station, about 1 mile downstream from Evacuation Creek, and 7 miles north of Watson.

DRAINAGE AREA.--4,020 sq mi, approximately (at gaging station).

PERIOD OF RECORD.--Chemical analyses: December 1950 to September 1972.

Water temperatures: December 1950 to September 1972.

EXTREMES, 1971-72.--Specific conductance: Maximum daily, 1,220 micromhos Jan. 10, minimum daily, 320 micromhos May 31.

Water temperatures: Maximum, 22.0°C Aug. 2; minimum, freezing point on many days during November to February.

Period of record.--Specific conductance: Maximum daily, 4,450 micromhos Aug. 4, 1955; minimum daily,

295 micromhos June 26, 1971.

Water temperatures: Maximum, 31°C Aug. 8, 1954; minimum, freezing point on many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	ALKA- LINITY AS CACO ₃ (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLOR- IDE (CL) (MG/L)	DIS- SOLVED FLUOR- IDE (F) (MG/L)
OCT.												
01...	428	14	65	20	39	1.4	211	0	173	140	22	.2
NOV.												
03...	469	16	70	22	88	2.6	226	0	185	160	82	.2
DEC.												
02...	396	--	63	22	56	1.5	217	0	178	150	25	--
JAN.												
05...	329	--	65	24	61	1.9	250	0	205	160	35	--
FEB.												
09...	670	--	100	23	57	1.9	215	0	176	160	40	--
MAR.												
16...	470	--	70	22	62	1.9	219	0	180	160	30	--
APR.												
17...	496	13	58	18	44	1.5	150	0	123	130	42	.3
MAY												
22...	1890	12	41	11	16	1.4	143	0	117	61	12	.2
JUNE												
13-15	2180	13	38	11	14	1.3	132	0	108	52	8.2	.2
JULY												
24...	222	11	67	28	65	2.2	212	0	174	190	42	.3
AUG.												
15...	196	13	62	28	75	2.7	221	0	181	200	44	.3
SEP.												
06...	360	15	73	28	51	3.2	240	0	197	170	34	.3

DATE	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITU- ENTS) (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)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHDS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED BORON (B) (UG/L)
OCT.												
01...	.04	.000	406	.55	469	240	72	1.1	651	8.1	11.5	60
NOV.												
03...	.02	.010	553	.75	700	270	80	2.4	891	8.0	1.5	90
DEC.												
02...	.01	.010	429	.58	459	250	70	1.5	706	8.2	.5	--
JAN.												
05...	.18	.000	470	.64	418	260	56	1.6	857	7.7	.0	--
FEB.												
09...	.17	.000	488	.66	883	340	170	1.3	754	8.0	.0	--
MAR.												
16...	.04	.010	463	.63	588	270	86	1.7	752	8.2	8.0	--
APR.												
17...	.04	.000	381	.52	510	220	96	1.3	535	8.0	14.0	50
MAY												
22...	.51	.010	227	.31	1160	150	30	.6	366	7.7	14.0	30
JUNE												
13-15	.12	.010	203	.28	1190	140	32	.5	328	7.9	17.5	30
JULY												
24...	.00	.000	510	.69	306	280	110	1.7	804	7.9	22.0	100
AUG.												
15...	.04	.020	534	.73	283	270	89	2.0	842	8.3	21.0	90
SEP.												
06...	.02	.030	493	.67	479	300	100	1.3	775	8.3	15.5	70

GREEN RIVER BASIN

09306500 WHITE RIVER NEAR WATSON, UTAH--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	625	670	610	---	820	780	---	550	330	---	775	875
2	665	650	680	---	890	760	730	520	340	---	790	---
3	640	1000	680	770	890	725	735	490	330	585	790	---
4	655	640	---	840	940	745	720	500	335	620	820	---
5	605	860	---	975	800	---	720	495	370	635	---	810
6	630	725	710	820	---	785	800	470	400	640	---	785
7	630	700	730	970	845	760	750	455	360	640	800	905
8	645	690	850	850	780	800	---	470	340	---	805	790
9	640	675	---	1060	755	815	690	435	600	600	800	785
10	575	680	890	1220	730	775	690	455	---	610	790	800
11	640	680	810	900	725	785	695	490	---	645	775	880
12	655	725	750	800	---	---	630	485	335	745	780	830
13	655	650	975	830	---	770	630	---	335	680	800	780
14	660	750	860	815	770	755	600	560	340	665	770	770
15	675	700	780	---	800	750	555	540	345	685	830	760
16	700	710	820	---	805	755	620	540	370	680	865	810
17	730	700	785	760	755	740	640	520	370	695	---	---
18	815	710	---	775	650	760	665	475	410	710	---	750
19	735	730	---	800	655	830	665	440	420	730	---	740
20	730	730	770	790	---	750	640	400	405	745	---	880
21	680	---	840	730	700	720	610	---	420	760	---	950
22	700	785	890	800	700	700	605	390	430	---	910	820
23	---	750	840	---	730	700	605	350	440	---	860	695
24	690	765	740	730	745	720	600	350	---	---	850	715
25	685	815	735	760	700	715	580	370	---	790	855	715
26	700	670	810	750	740	---	550	380	475	940	855	725
27	695	830	730	785	---	700	510	---	490	775	---	700
28	705	830	770	805	790	700	470	---	510	800	855	685
29	805	700	760	810	780	835	490	---	525	785	---	700
30	665	670	---	---	---	705	520	325	540	770	---	---
31	---	---	785	815	---	720	---	320	---	805	925	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

SAN JUAN RIVER BASIN

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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 mile upstream from Fall Creek and 14 miles northeast of Pagosa Springs.

DRAINAGE AREA.--14.0 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1972.

REMARKS.--Silver Sample Analyses performed by Bureau of Reclamation.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)
APR. 04...	11	18	20	0	7.0	.7	3.2	1.0	26	0	21	5.9
APR. 07...	22	18	40	0	5.9	.6	2.4	1.1	21	0	17	6.6
MAY 08...	88	14	50	0	5.2	.4	1.7	1.2	19	0	16	4.1
MAY 16...	100	13	40	0	4.4	.4	1.9	.8	16	0	13	3.9
JUNE 01...	80	15	30	0	4.6	.5	1.6	.6	19	0	16	3.4
JUNE 14...	51	16	50	0	4.6	.4	1.6	.7	20	0	16	4.1
JULY 06...	11	23	20	0	5.1	.5	2.8	.9	23	0	18	4.8
AUG. 02...	5.2	18	30	0	6.1	.5	3.4	1.1	27	0	22	5.4
SEP. 06...	19	15	50	10	6.2	.8	4.8	1.2	28	0	23	6.0

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
APR. 04...	1.2	.1	.01	.010	50	.07	20	0	.3	53	7.0	2.0
APR. 17...	.7	.1	.01	.050	46	.06	17	0	.3	44	7.2	6.0
MAY 02...	2.4	.0	.18	.000	39	.05	15	0	.2	35	6.8	7.0
MAY 16...	.1	.0	.12	.000	33	.04	13	0	.2	32	7.1	5.0
JUNE 01...	.3	.1	.07	.010	36	.05	14	0	.2	34	7.3	5.0
JUNE 14...	.2	.0	.05	.010	38	.05	13	0	.2	37	7.5	5.0
JULY 06...	.3	.0	.00	.000	49	.07	15	0	.3	44	7.1	10.0
AUG. 02...	1.0	.0	.02	.010	49	.07	17	0	.4	52	6.7	16.0
SEP. 06...	.6	.1	.04	.020	49	.07	19	0	.5	57	6.7	11.0

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	DIS-CHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (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	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM
APR. 04...	1000	2.0	11	7	.21	--	--	--	--	--
APR. 17...	1330	6.0	22	7	.42	--	--	--	--	--
MAY 02...	1625	7.0	88	32	7.6	--	--	--	--	--
MAY 16...	1700	5.0	100	31	8.4	--	--	--	--	--
JUNE 01...	0945	5.0	80	10	2.2	--	--	--	--	--
JUNE 14...	0700	5.0	51	6	.83	--	--	--	--	--
JULY 06...	1445	10.0	11	1	.03	--	--	--	--	--
AUG. 02...	1500	16.0	5.2	6	.08	--	--	--	--	--
SEP. 06...	1545	11.0	19	1920	98	34	40	53	95	100

SAN JUAN RIVER BASIN

09341200 WOLF CREEK NEAR PAGOSA SPRINGS, COLO.--Continued

SILVER ANALYSES, APRIL 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	TOTAL SILVER (AG) (UG/L)	DATE	DIS- CHARGE (CFS)	TOTAL SILVER (AG) (UG/L)	DATE	DIS- CHARGE (CFS)	TOTAL SILVER (AG) (UG/L)
APR., 1971	.		JULY, 1971			JUNE, 1972		
07...	28	<0.03	07...	24	<0.03	01...	80	0.03
19...	31	<.03	AUG.			14...	51	<.03
MAY			11...	5.8	<.03	JULY		
05...	48	<.03	SEP.			06...	11	.05
19...	50	<.03	08...	6.7	<.03	AUG.		
JUNE			APR., 1972			02...	5.2	.06
02...	73	2.1	04...	11	.20	SEP.		
16...	99	<.03	17...	22	<.03	06...	19	.04
			MAY					
			02...	88	<.03			
			16...	100	<.03			

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 mile upstream from headgate on Toner-Taylor ditch, 4.1 miles northeast of Piedra guard station, and 17 miles northwest of Pagosa Springs.

DRAINAGE AREA.--32.2 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1972.

REMARKS.--Silver Sample Analyses performed by Bureau of Reclamation.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)
APR.												
04...	22	21	20	0	7.2	1.4	4.5	1.0	38	0	31	7.6
17...	44	21	40	0	7.2	1.3	4.1	1.2	29	0	24	6.9
MAY												
02...	72	17	30	0	5.9	.8	3.0	1.4	25	0	21	5.7
17...	102	17	40	0	7.0	.7	2.7	.9	21	0	17	5.3
JUNE												
01...	172	16	30	0	5.1	.7	1.7	.8	21	0	17	5.0
14...	102	16	40	0	4.9	.6	1.5	.7	20	0	16	4.6
JULY												
07...	18	26	50	0	6.3	1.1	3.9	.9	30	0	24	7.8
AUG.												
03...	9.2	21	20	0	7.1	1.3	4.6	1.1	36	0	30	7.4
SEP.												
07...	16	21	40	0	7.7	1.2	4.6	1.2	37	0	30	7.5

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
APR.												
04...	.9	.1	.00	.020	62	.08	24	0	.4	73	7.1	8.0
17...	.6	.1	.01	.020	57	.08	23	0	.4	62	7.3	8.0
MAY												
02...	1.3	.0	.04	.000	48	.07	18	0	.3	50	6.9	7.0
17...	.9	.0	.13	.020	46	.06	20	3	.3	46	6.9	8.0
JUNE												
01...	.8	.1	.09	.010	41	.06	16	0	.2	40	7.3	8.0
14...	.1	.0	.02	.010	38	.05	15	0	.2	42	7.5	9.0
JULY												
07...	.4	.0	.00	.020	61	.08	20	0	.4	58	7.8	8.0
AUG.												
03...	1.0	.0	.01	.030	61	.08	23	0	.4	71	6.6	12.0
SEP.												
07...	.8	.1	.01	.030	62	.08	24	0	.4	68	7.0	9.0

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	DIS-CHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT (T/DAY)	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
APR.										
04...	1645	8.0	22	3	.18	--	--	--	--	--
17...	1115	8.0	44	21	2.5	--	--	--	--	--
MAY										
02...	1220	7.0	72	11	2.1	--	--	--	--	--
17...	1500	8.0	102	16	4.4	--	--	--	--	--
JUNE										
01...	1540	8.0	172	66	31	23	29	42	76	100
14...	1040	9.0	102	10	2.8	--	--	--	--	--
JULY										
07...	0745	8.0	18	3	.15	--	--	--	--	--
AUG.										
03...	0945	12.0	9.2	3	.07	--	--	--	--	--
SEP.										
07...	0825	9.0	16	2	.09	--	--	--	--	--

SAN JUAN RIVER BASIN

09347200 MIDDLE FORK PIEDRA RIVER NEAR PAGOSA SPRINGS, COLO.--Continued

SILVER ANALYSES, APRIL 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	TOTAL SILVER (AG) (UG/L)	DATE	DIS- CHARGE (CFS)	TOTAL SILVER (AG) (UG/L)	DATE	DIS- CHARGE (CFS)	TOTAL SILVER (AG) (UG/L)
APR., 1971			JULY, 1971			JUNE, 1972		
07...	31	<0.03	07...	34	0.03	01...	172	<0.03
19...	33	<.03	AUG.			14...	102	<.03
MAY			11...	10	<.03	JULY		
05...	37	<.03	SEP.			07...	18	.07
19...	49	<.03	08...	14	<.03	AUG.		
JUNE			APR., 1972			03...	9.2	4.57
02...	75	<.03	04...	22	<.03	SEP.		
16...	126	<.03	17...	44	.06	07...	16	<.03
			MAY					
			02...	72	<.03			
			17...	102	<.03			

SAN JUAN RIVER BASIN

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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 upstream from Fall Creek, 0.8 mile downstream from Bear Creek, 6.7 miles north of Vallecito Dam, and 18 miles north of Bayfield.

DRAINAGE AREA.--72.1 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1963 to September 1968, August 1970 to September 1972.
Water temperatures: November 1962 to September 1972.

EXTREMES, 1971-72.--Water temperatures: Maximum, 18°C July 15; minimum, freezing point on many days during October to April.

Period of record.--Water temperatures: Maximum, 18°C July 15, 1972; minimum, freezing point on many days during winter months.

REMARKS.--Silver Sample Analyses performed by Bureau of Reclamation.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (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)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	ALKA- LITY AS CaCO ₃ (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)
OCT. 01...	114	3.8	20	0	15	2.6	.9	.6	39	0	32	14
NOV. 04...	77	4.0	20	10	9.8	1.9	1.0	.5	32	0	26	7.3
DEC. 07...	39	4.0	0	0	11	2.2	1.2	.6	38	0	31	11
JAN. 11...	24	4.6	10	8	12	2.4	1.2	.6	41	0	34	9.8
FEB. 08...	14	4.5	20	0	13	2.7	1.3	.7	47	0	39	9.7
MAR. 09...	52	5.0	50	10	11	2.4	1.5	.7	39	0	32	8.1
APR. 04...	57	4.2	40	0	12	2.3	5.1	.8	43	0	35	18
18...	160	4.1	30	10	10	1.9	1.0	.7	33	0	27	6.7
MAY 04...	480	2.9	30	0	7.9	1.4	1.6	1.0	24	0	20	6.1
18...	380	3.0	40	20	10	2.1	1.2	.8	22	0	18	11
JUNE 02...	431	3.1	30	30	7.2	1.7	.2	.4	28	0	23	6.7
15...	220	2.7	50	30	7.4	1.5	.1	.3	26	0	21	8.0
JULY 05...	96	4.7	10	0	7.7	1.8	1.0	.6	28	0	23	7.2
AUG. 08...	38	3.5	10	0	13	1.8	1.1	.6	33	0	27	10
31...	54	3.4	20	10	8.6	1.6	.9	.5	27	0	22	9.5
DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUD- RIDE (F) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHOD. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	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)	TEMPER- ATURE (DEG C)
OCT. 01...	1.6	.1	.08	.010	58	.08	48	16	.1	81	7.3	6.0
NOV. 04...	.7	.3	.15	.000	42	.06	32	6	.1	73	7.3	1.0
DEC. 07...	2.1	.2	.12	.000	52	.07	37	5	.1	84	7.9	1.0
JAN. 11...	1.6	.2	.16	.000	53	.07	40	6	.1	89	7.0	1.0
FEB. 08...	.8	.3	.13	.000	57	.08	44	5	.1	98	7.7	.0
MAR. 09...	1.2	.2	.13	.000	50	.07	37	5	.1	79	7.6	2.0
APR. 04...	10	.3	.11	.010	74	.10	39	4	.4	84	7.3	2.0
18...	.4	.2	.09	.000	42	.06	33	6	.1	68	7.4	4.0
MAY 04...	.4	.1	.13	.000	34	.05	25	6	.1	52	7.0	3.0
18...	4.0	.2	.14	.000	44	.06	34	16	.1	64	7.4	6.0
JUNE 02...	.4	.2	.11	.000	34	.05	25	2	.0	55	7.4	7.0
15...	.1	.2	.10	.000	34	.05	25	3	.0	55	7.4	7.0
JULY 05...	.2	.2	.06	.000	37	.05	27	4	.1	58	7.4	9.0
AUG. 08...	1.0	.2	.09	.000	48	.07	40	13	.1	71	7.4	12.0
31...	.1	.3	.07	.000	39	.05	28	6	.1	63	7.3	10.0

SAN JUAN RIVER BASIN

09352900 VALLECITO CREEK NEAR BAYFIELD, COLO.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	5.0	0.0	0.0	1.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0
2	5.0	2.0	0.0	0.0	1.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0
3	5.0	3.0	1.0	0.0	1.0	1.0	1.0	1.0	0.0	0.0	2.0	1.0
4	6.0	4.0	2.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	3.0	1.0
5	6.0	4.0	2.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	3.0	2.0
6	7.0	4.0	2.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	3.0	2.0
7	7.0	4.0	2.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	3.0	2.0
8	7.0	4.0	2.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	3.0	2.0
9	7.0	4.0	2.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	4.0	3.0
10	7.0	5.0	3.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	3.0	1.0
11	7.0	5.0	3.0	2.0	1.0	1.0	1.0	0.0	0.0	0.0	3.0	1.0
12	7.0	4.0	3.0	2.0	1.0	1.0	1.0	0.0	0.0	0.0	4.0	1.0
13	6.0	4.0	3.0	3.0	1.0	1.0	1.0	0.0	0.0	0.0	4.0	1.0
14	6.0	4.0	3.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	3.0	1.0
15	6.0	4.0	2.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	3.0	1.0
16	6.0	6.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	4.0	0.0
17	6.0	2.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	4.0	1.0
18	2.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	5.0	1.0
19	1.0	0.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	5.0	1.0
20	3.0	0.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	5.0	1.0
21	3.0	2.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	5.0	1.0
22	3.0	2.0	1.0	1.0	1.0	1.0	0.0	0.0	1.0	0.0	5.0	1.0
23	3.0	2.0	1.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0	5.0	2.0
24	3.0	2.0	1.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0	5.0	1.0
25	2.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0	5.0	1.0
26	2.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0	4.0	2.0
27	2.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0	3.0	1.0
28	2.0	2.0	1.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0	2.0	0.0
29	2.0	0.0	1.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0	1.0	0.0
30	0.0	0.0	1.0	1.0	1.0	1.0	0.0	0.0	---	---	1.0	0.0
31	0.0	0.0	---	---	1.0	1.0	0.0	0.0	---	---	2.0	0.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.0	0.0	8.0	3.0	12.0	8.0	17.0	12.0	16.0	14.0	13.0	11.0
2	3.0	1.0	8.0	3.0	11.0	7.0	16.0	11.0	17.0	14.0	13.0	11.0
3	5.0	1.0	9.0	3.0	13.0	9.0	16.0	12.0	17.0	13.0	13.0	11.0
4	6.0	2.0	7.0	3.0	13.0	9.0	15.0	12.0	17.0	14.0	12.0	10.0
5	7.0	4.0	6.0	5.0	13.0	9.0	12.0	8.0	17.0	13.0	13.0	10.0
6	7.0	5.0	7.0	4.0	13.0	9.0	10.0	8.0	17.0	13.0	13.0	12.0
7	8.0	3.0	6.0	5.0	13.0	11.0	13.0	9.0	17.0	13.0	12.0	10.0
8	8.0	4.0	10.0	4.0	11.0	10.0	15.0	10.0	15.0	12.0	12.0	8.0
9	8.0	4.0	10.0	5.0	11.0	9.0	14.0	11.0	14.0	11.0	11.0	10.0
10	7.0	4.0	9.0	4.0	13.0	9.0	13.0	10.0	14.0	12.0	11.0	10.0
11	6.0	5.0	7.0	4.0	14.0	10.0	15.0	10.0	14.0	12.0	13.0	10.0
12	6.0	4.0	10.0	4.0	14.0	11.0	16.0	11.0	14.0	12.0	12.0	11.0
13	5.0	4.0	9.0	4.0	13.0	10.0	16.0	11.0	15.0	12.0	11.0	9.0
14	3.0	2.0	11.0	4.0	13.0	10.0	17.0	11.0	16.0	13.0	12.0	9.0
15	6.0	2.0	10.0	5.0	13.0	7.0	18.0	12.0	16.0	13.0	12.0	9.0
16	8.0	2.0	9.0	5.0	13.0	9.0	17.0	14.0	16.0	13.0	13.0	9.0
17	8.0	3.0	8.0	5.0	14.0	9.0	16.0	11.0	16.0	14.0	12.0	9.0
18	6.0	4.0	11.0	6.0	14.0	9.0	15.0	12.0	14.0	12.0	13.0	9.0
19	6.0	3.0	9.0	7.0	13.0	8.0	14.0	11.0	14.0	12.0	13.0	10.0
20	4.0	3.0	11.0	5.0	14.0	8.0	14.0	12.0	14.0	11.0	11.0	7.0
21	7.0	2.0	9.0	5.0	13.0	10.0	14.0	12.0	14.0	12.0	10.0	7.0
22	9.0	3.0	8.0	4.0	13.0	11.0	15.0	12.0	14.0	10.0	10.0	7.0
23	9.0	3.0	8.0	4.0	13.0	11.0	15.0	11.0	14.0	10.0	10.0	8.0
24	9.0	3.0	11.0	4.0	14.0	8.0	15.0	13.0	13.0	9.0	10.0	7.0
25	7.0	3.0	11.0	5.0	15.0	8.0	15.0	13.0	13.0	10.0	9.0	8.0
26	5.0	2.0	9.0	5.0	15.0	9.0	16.0	12.0	12.0	9.0	9.0	6.0
27	7.0	2.0	10.0	4.0	16.0	8.0	16.0	13.0	12.0	11.0	9.0	6.0
28	8.0	3.0	11.0	6.0	17.0	10.0	17.0	12.0	15.0	11.0	10.0	8.0
29	8.0	3.0	11.0	6.0	17.0	11.0	17.0	12.0	15.0	12.0	10.0	7.0
30	7.0	4.0	13.0	8.0	17.0	12.0	17.0	13.0	13.0	10.0	10.0	6.0
31	---	---	13.0	8.0	---	---	17.0	13.0	12.0	10.0	---	---

SAN JUAN RIVER BASIN

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09352900 VALLECITO CREEK NEAR BAYFIELD, COLO.--Continued

SILVER ANALYSES, APRIL 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	TOTAL SILVER (AG) (UG/L)	DATE	DIS- CHARGE (CFS)	TOTAL SILVER (AG) (UG/L)	DATE	DIS- CHARGE (CFS)	TOTAL SILVER (AG) (UG/L)
APR., 1971			JULY, 1971			JUNE, 1972		
01...	130	<0.03	08...	245	<0.03	02...	431	0.25
22...	102	<.03	AUG.			15...	220	.18
MAY			12...	44	<.03	JULY		
06...	147	<.03	SEP.			05...	96	.18
20...	176	<.03	01...	94	<.03	AUG.		
JUNE			APR., 1972			08...	38	.05
08...	518	.03	04...	57	.03	31...	54	<.03
17...	544	.05	18...	160	<.03			
			MAY					
			04...	480	<.03			
			18	380	<.03			

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1971 TO OCTOBER 1972

DATE	DIS- CHARGE (CFS)	ALDRIN (UG/L)	CHLOR- DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- AZINON (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)
OCT. 06...	72	.00	.0	.00	.00	.01	.00	.00	.00
DATE	HEPTA- CHLDR (UG/L)	HEPTA- CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	MALA- THION (UG/L)	METHYL PARA- THION (UG/L)	PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
OCT. 06...	.00	.00	.00	.00	.00	.00	.00	.00	.00

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- SOLVED GROSS ALPHA AS U-NAT. (PC/L)	SUS- PENDE GROSS ALPHA AS U-NAT. (PC/L)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDE GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDE GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDE GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L)	DIS- SOLVED NATURAL URANIUM (U) (UG/L)
OCT. 06...	.4	<.1	1.3	<.4	2.2	<.4	1.8	<.4	.04	.40

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
OCT. 01...	1200	6.0	114	4	1.2
NOV. 04...	0850	1.0	77	1	.21
DEC. 07...	0940	1.0	39	1	.11
JAN. 11...	0920	1.0	24	7	.45
MAR. 09...	0800	2.0	52	4	.56
APR. 04...	0915	2.0	57	2	.31
18...	1115	4.0	160	4	1.7
MAY 04...	0845	3.0	480	14	18
18...	1000	6.0	380	6	6.2
JUNE 02...	1100	7.0	431	9	10
15...	0900	7.0	220	3	1.8
JULY 05...	0930	9.0	96	2	.52
AUG. 08...	0930	12.0	38	1	.10
31...	0915	10.0	54	1	.15

SAN JUAN RIVER BASIN

09357500 ANIMAS RIVER AT HOWARDSVILLE, COLO.

LOCATION.--Lat 37°49'59", long 107°35'56", in sec.12, T.41 N., R.7 W., San Juan County, at gaging station, on right bank 1,000 ft downstream from bridge on State Highway 110, 0.3 mile southwest of Howardsville, and 0.4 mile downstream from Cunningham Creek.

DRAINAGE AREA.--55.9 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1972.

REMARKS.--Silver Sample Analyses performed by Bureau of Reclamation.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SI02) (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)
APR.												
07...	34	7.4	20	290	49	2.8	2.0	.6	38	0	31	110
17...	51	7.3	30	270	44	2.5	1.9	.8	36	0	30	95
MAY												
04...	199	4.8	40	300	23	1.5	3.4	.5	30	0	25	46
18...	325	4.2	80	240	19	1.2	1.2	.5	27	0	22	33
JUNE												
01...	714	3.8	50	400	14	1.0	1.0	.4	21	0	17	26
14...	223	4.8	50	480	22	1.4	.9	.4	26	0	21	43
JULY												
10...	74	8.3	30	320	31	2.1	1.5	.6	30	0	25	64
AUG.												
03...	38	6.9	30	280	42	2.4	2.6	.5	36	0	30	95
SEP.												
07...	54	6.6	20	460	42	2.3	1.9	.6	37	0	30	82

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
APR.												
07...	.3	.6	.23	.000	193	.26	130	100	.1	298	7.1	1.0
17...	.3	.6	.28	.010	172	.23	120	91	.1	266	7.2	5.0
MAY												
04...	14	.2	.36	.000	110	.15	64	39	.2	153	7.2	4.0
18...	1.7	.3	.27	.000	76	.10	52	30	.1	124	7.1	6.0
JUNE												
01...	.4	.4	.17	.050	59	.08	39	22	.1	96	7.1	9.0
14...	.1	.4	.23	.000	87	.12	61	39	.1	147	7.2	11.0
JULY												
10...	.2	.5	.12	.000	124	.17	86	61	.1	198	7.1	12.0
AUG.												
03...	1.0	.6	.10	.000	169	.23	110	85	.1	258	7.4	16.0
SEP.												
07...	1.3	.7	.15	.000	157	.21	110	84	.1	252	7.2	11.0

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	DIS-CHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT 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
APR.											
07...	0745	1.0	34	4	.37	--	--	--	--	--	--
17...	0930	5.0	51	3	.41	--	--	--	--	--	--
MAY											
04...	0830	4.0	199	18	9.7	--	--	--	--	--	--
18...	1830	6.0	325	75	66	--	--	--	--	--	--
JUNE											
01...	1800	9.0	714	239	461	21	27	72	88	99	100
14...	1400	11.0	223	7	4.2	--	--	--	--	--	--
JULY											
10...	1600	12.0	74	2	.40	--	--	--	--	--	--
AUG.											
03...	1245	16.0	38	3	.31	--	--	--	--	--	--
SEP.											
07...	1230	11.0	54	2	.29	--	--	--	--	--	--

SAN JUAN RIVER BASIN

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09357500 ANIMAS RIVER AT HOWARDSVILLE, COLO.--Continued

SILVER ANALYSES, APRIL 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	TOTAL SILVER (AG) (UG/L)	DATE	DIS- CHARGE (CFS)	TOTAL SILVER (AG) (UG/L)	DATE	DIS- CHARGE (CFS)	TOTAL SILVER (AG) (UG/L)
APR., 1971			JULY, 1971			JUNE, 1972		
07...	52	0.05	09...	232	0.05	01...	714	0.06
21...	74	<.03	AUG.			14...	223	<.03
MAY			13...	43	<.03	JULY		
05...	93	<.03	SEP.			10...	74	.06
19...	133	<.03	10...	54	<.03	AUG.		
JUNE			APR., 1972			03...	38	.04
04...	238	.03	07...	34	.17	SEP.		
16...	615	.04	17...	51	<.03	07...	54	<.03
			MAY					
			04...	199	.05			
			18	325	.03			

SAN JUAN RIVER BASIN

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 upstream from bridge, 0.6 miles upstream from Middle Fork, and 4.3 miles northwest of Silverton.

DRAINAGE AREA.--11.0 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1972.

REMARKS.--Silver Sample Analyses performed by Bureau of Reclamation.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SI02) (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)
APR. 07...	8.6	10	220	520	46	2.8	3.3	.7	5	0	4	140
17...	12	10	350	460	39	2.7	2.7	1.0	3	0	2	110
MAY 04...	32	6.9	560	430	24	2.0	5.8	.7	1	0	1	73
18...	60	5.3	470	210	19	1.6	2.4	.7	3	0	2	56
JUNE 01...	104	3.7	100	10	12	1.0	1.0	.3	12	0	10	26
14...	49	4.3	60	130	16	1.2	.9	.3	13	0	11	38
JULY 10...	15	9.4	20	170	24	1.6	1.9	.3	10	0	8	66
AUG. 03...	6.9	8.6	10	320	37	2.2	2.7	.4	12	0	10	100
SEP. 07...	15	7.8	260	620	34	2.4	2.7	.6	3	0	2	100

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
APR. 07...	1.8	.3	.13	.000	209	.28	130	120	.1	295	6.7	2.0
17...	.4	.3	.13	.000	169	.23	110	110	.1	255	6.5	5.0
MAY 04...	12	.2	.19	.000	127	.17	68	67	.3	183	5.2	6.0
18...	2.7	.3	.16	.000	91	.12	54	52	.1	132	5.7	6.0
JUNE 01...	.1	.4	.20	.000	51	.07	34	24	.1	82	7.2	11.0
14...	.1	.2	.10	.000	68	.09	45	34	.1	113	7.2	10.0
JULY 10...	.1	.3	.02	.000	109	.15	66	58	.1	177	6.8	12.0
AUG. 03...	1.0	.2	.04	.000	159	.22	100	92	.1	248	6.6	12.0
SEP. 07...	1.0	.4	.10	.000	152	.21	95	92	.1	252	5.9	9.0

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	DIS-CHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT 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
APR. 07...	1000	2.0	8.6	10	.23	--	--	--	--	--	--	--
17...	1110	5.0	12	10	.32	--	--	--	--	--	--	--
MAY 04...	1120	6.0	32	22	1.9	--	--	--	--	--	--	--
18...	1645	6.0	60	94	15	26	36	81	91	98	100	--
JUNE 01...	1530	11.0	104	99	28	18	23	58	68	83	96	100
14...	1150	10.0	49	5	.66	--	--	--	--	--	--	--
AUG. 03...	1045	12.0	6.9	2	.04	--	--	--	--	--	--	--
SEP. 07...	1045	9.0	15	5	.20	--	--	--	--	--	--	--

SAN JUAN RIVER BASIN

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09358900 MINERAL CREEK ABOVE SILVERTON, COLO.--Continued

SILVER ANALYSES, APRIL 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	TOTAL SILVER (AG) (UG/L)	DATE	DIS- CHARGE (CFS)	TOTAL SILVER (AG) (UG/L)	DATE	DIS- CHARGE (CFS)	TOTAL SILVER (AG) (UG/L)
APR., 1971			JULY, 1971			JUNE, 1972		
07...	20	<0.03	09...	42	<0.03	01...	104	<0.03
21...	18	<.03	AUG.			14...	49	<.03
MAY			13...	12	<.03	JULY		
05...	28	<.03	SEP.			10...	15	.03
19...	30	<.03	10...	12	<.03	AUG.		
JUNE			APR., 1972			03...	6.9	.03
04...	49	.03	07...	8.6	<.03	SEP.		
16...	113	.03	17...	12	<.03	07...	15	<.03
			MAY					
			04...	32	<.03			
			18...	60	.06			

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS
CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE- POSITS (UG/KG)	CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM DE- POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE- POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE- POSITS (UG/KG)	DDT (UG/L)
06754000 - S. PLATTE R. NR. KERSEY (LAT 40 24 44 LONG 104 33 46)											
MAR., 1972											
30...	467	7.0	.00	<.2	.0	<1.0	.00	<.2	.00	<.2	.00
MAY											
23...	156	20.5	.00	--	.0	--	.00	--	.00	--	.00
JUNE											
23...	355	20.0	.00	<.2	.0	<1.0	.00	<.2	.00	.6	.00
SEP.											
18...	554	16.5	.00	<.2	.0	<1.0	.00	<.2	.00	<.2	.00

DATE	LINDANE (UG/L)	LINDANE IN BOTTOM DE- POSITS (UG/KG)	MALA- THION (UG/L)	METHYL PARA- THION (UG/L)	PARA- THION (UG/L)	PCB (UG/L)	PCB IN BOTTOM DE- POSITS (UG/KG)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
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06754000 - S. PLATTE R. NR. KERSEY (LAT 40 24 44 LONG 104 33 46)										
MAR., 1972										
30...	.00	<.2	--	--	--	.0	<2.0	.04	.02	.00
MAY										
23...	.00	--	.00	.00	.00	--	--	.07	--	--
JUNE										
23...	.00	<.2	.00	.00	.00	.0	<2.0	.07	.00	.00
SEP.										
18...	.00	<.2	.00	.00	.00	.0	<2.0	.00	.00	.00

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SID2) (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- LITY AS CAO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
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09019000 - COLORADO RIVER BL LAKE GRANBY, CO. (LAT 40 08 39 LONG 105 52 00)

DEC., 1971												
09...	20	6.1	--	--	6.6	1.2	2.3	.7	31	0	25	3.8
MAR., 1972												
09...	19	6.9	--	--	7.4	1.4	2.3	.8	29	0	24	3.6
JUNE												
20...	88	6.1	--	--	6.3	1.3	1.8	.8	28	0	23	6.6
SEP.												
14...	11	6.2	--	--	6.9	1.1	2.5	.9	30	0	25	3.9

09038500 - WILLIAMS FORK R BL WILLIAMS F. RES., CO. (LAT 40 02 07 LONG 106 12 17)

OCT., 1971												
28...	246	8.5	--	--	13	2.0	3.4	1.3	55	0	45	3.8
JUNE, 1972												
20...	25	10	--	--	14	2.4	2.5	1.4	56	0	46	5.6

09057700 - BLUE R AT MOUTH NR KREMMLING, CO. (LAT 40 01 55 LONG 106 23 09)

OCT., 1971												
28...	387	5.7	--	--	22	3.7	4.8	1.5	66	0	54	17
JUNE, 1972												
20...	744	6.2	--	--	25	4.5	4.5	1.5	73	0	60	32

09070500 - COLORADO R NR DOTSERD, CO. (LAT 39 38 40 LONG 107 04 40)

NOV., 1971												
29...	1230	10	30	160	45	9.8	23	2.0	123	0	101	83
FEB., 1972												
22...	1180	11	20	67	43	9.6	22	2.4	113	0	93	69
MAY												
15...	2520	11	120	30	35	8.4	14	1.9	106	0	87	61
AUG.												
28...	1290	8.9	120	10	56	11	23	2.5	124	0	102	99

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS
CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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DATE	DDT IN BOTTOM DE- POSITS (UG/KG)	DI- AZINON (UG/L)	DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM DE- POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR IN BOT- TOM DE- POSITS (UG/KG)
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06754000 - S. PLATTE R. NR. KERSEY (LAT 40 24 44 LONG 104 33 46)

MAR., 1972										
30...	<.2	--	.00	3.5	.00	<.2	.00	<.2	.00	<.2
MAY										
23...	--	.02	.00	--	.00	--	.00	--	.00	--
JUNE										
23...	<.2	.02	.01	<.2	.00	<.2	.00	<.2	.00	<.2
SEP.										
18...	<.2	.03	.01	<.2	.01	<.2	.00	<.2	.00	<.2

DATE	DIS- SOLVED CHLORIDE (CL) (MG/L)	DIS- SOLVED FLUORIDE (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 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)	TEMPER- ATURE (DEG C)
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09019000 - COLORADO RIVER BL LAKE GRANBY, CO. (LAT 40 08 39 LONG 105 52 00)

DEC., 1971												
09...	.7	--	.05	.020	37	.05	21	0	.2	54	7.1	3.0
MAR., 1972												
09...	.6	--	.08	.000	38	.05	24	0	.2	55	7.4	3.0
JUNE												
20...	.4	--	.19	.000	38	.05	21	0	.2	55	7.5	6.5
SEP.												
14...	.8	--	.07	.000	37	.05	22	0	.2	57	7.0	7.0

09038500 - WILLIAMS FORK R BL WILLIAMS F. RES., CO. (LAT 40 02 07 LONG 106 12 17)

OCT., 1971												
28...	.7	--	.16	.010	60	.08	41	0	.2	93	7.2	9.0
JUNE, 1972												
20...	.4	--	.12	.020	64	.09	45	0	.2	105	7.9	7.0

09057700 - BLUE R AT MOUTH NR KREMMLING, CO. (LAT 40 01 55 LONG 106 23 09)

OCT., 1971												
28...	1.5	--	.10	.010	89	.12	70	16	.3	165	7.5	6.0
JUNE, 1972												
20...	.8	--	.03	.010	111	.15	81	21	.2	190	8.2	14.0

09070500 - COLORADO R NR DOTSERO, CO. (LAT 39 38 40 LONG 107 04 40)

NOV., 1971												
29...	28	.3	.06	.010	262	.36	150	52	.8	421	8.0	2.0
FEB., 1972												
22...	30	.3	.14	.000	244	.33	150	54	.8	412	7.7	2.5
MAY												
15...	13	.2	.10	.000	197	.27	120	35	.6	316	7.6	12.0
AUG.												
28...	25	.3	.04	.000	287	.39	190	83	.7	472	8.0	18.5

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS
CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (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)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BDNATE (CO ₃) (MG/L)	ALKA- LINITY AS CACO ₃ (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)
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09085000 - ROARING FORK R AT GLENWOOD SPRINGS, CO. (LAT 39 32 37 LONG 107 19 44)

NOV., 1971											
29... 743	10	--	--	81	13	28	1.4	149	0	122	160
FEB., 1972											
22... 586	9.7	--	--	90	13	20	1.8	146	0	120	170
MAY											
15... 869	9.4	--	--	68	11	20	1.7	135	0	111	120

09149500 - UNCOMPAHGRE R. AT DELTA, CO. (LAT 38 44 30 LONG 108 04 50)

DEC., 1971											
03... 178	16	10	70	230	86	190	4.5	284	0	233	1100
FEB., 1972											
16... 124	14	20	110	230	90	190	5.3	285	0	234	1100
MAY											
19... 138	18	80	70	240	68	130	4.6	262	0	215	940
SEP.											
01... 167	21	20	40	260	76	150	4.6	299	0	245	1000

09163500 - COLORADO R NR COLORADO-UTAH STATE LINE (LAT 39 10 00 LONG 108 57 24)

NOV., 1971											
16... 4650	12	--	--	100	36	100	3.9	186	0	153	360
FEB., 1972											
15... 3770	11	--	--	87	31	100	3.7	181	0	148	270
MAY											
30... 14100	8.7	--	--	56	15	35	2.3	122	0	100	140
SEP.											
06... 2800	12	--	--	170	57	150	5.9	223	0	183	630

09177100 - SAN MIGUEL R BELOW URAVAN, CO. (LAT 38 23 08 LONG 108 45 28)

DEC., 1971											
02... 90	8.7	--	--	120	83	75	7.4	190	0	156	700
FEB., 1972											
17... 70	6.7	--	--	120	62	78	5.5	167	0	137	500
MAY											
18... 225	6.7	--	--	71	28	32	3.2	109	0	89	240
AUG.											
31... 18	7.7	--	--	240	150	160	13	156	0	128	1300

DATE	TIME	DIS- CHARGE (CFS)	SUS- PENDE SEDIM- MENT (MG/L)	SUS- PENDE SEDIM- 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
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09306300 - WHITE RIVER AB RANGELY, COLO. (LAT 40 06 26 LONG 108 42 44)

MAY, 1972										
01... 1235	659	184	327	--	--	--	--	--	--	--
26... 1445	1370	402	1490	19	22	62	80	97	100	
JUNE										
08... 1225	2480	641	4290	22	25	70	85	100	--	--
22... 1310	1040	236	663	--	--	54	63	93	100	
JULY										
17... 1230	337	39	35	--	--	--	--	--	--	--
AUG.										
07... 1210	385	44	46	--	--	--	--	--	--	--
SEP.										
11... 1205	426	92	106	--	--	97	--	--	--	--
29... 1130	416	36	40	--	--	--	--	--	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--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)	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)	TEMPER- ATURE (DEG C)
09085000 - ROARING FORK R AT GLENWOOD SPRINGS, CO. (LAT 39 32 37 LONG 107 19 44)												
NOV., 1971												
29...	35	--	.23	.010	403	.55	260	130	.8	628	8.0	4.0
FEB., 1972												
22...	25	--	.10	.010	402	.55	280	160	.5	623	8.3	4.5
MAY												
15...	23	--	.11	.000	320	.44	220	100	.6	528	8.3	14.0
09149500 - UNCOMPAHGRE R. AT DELTA, CO. (LAT 38 44 30 LONG 108 04 50)												
DEC., 1971												
03...	19	.8	3.8	.010	1800	2.45	930	690	2.7	2240	7.8	3.5
FEB., 1972												
16...	21	.7	3.9	.020	1810	2.46	940	710	2.7	2290	7.8	3.0
MAY												
19...	17	.9	3.9	.010	1560	2.12	880	660	1.9	1990	7.9	11.0
SEP.												
01...	15	1.1	3.7	.020	1690	2.30	960	720	2.1	2120	7.8	14.5
09163500 - COLORADO R NR COLORADO-UTAH STATE LINE (LAT 39 10 00 LONG 108 57 24)												
NOV., 1971												
16...	79	--	1.1	.050	787	1.07	400	250	2.2	1180	8.2	6.5
FEB., 1972												
15...	120	--	.63	.000	715	.97	340	200	2.3	1140	7.9	2.0
MAY												
30...	33	--	.67	.000	353	.48	200	100	1.1	578	8.0	14.5
SEP.												
06...	120	--	1.5	.060	1260	1.71	660	480	2.5	1770	8.0	18.5
09177100 - SAN MIGUEL R BELOW URAVAN, CO. (LAT 38 23 08 LONG 108 45 28)												
DEC., 1971												
02...	67	--	.98	.010	1160	1.58	640	490	1.3	1750	7.5	2.5
FEB., 1972												
17...	78	--	.51	.010	935	1.27	550	420	1.4	1430	7.2	6.5
MAY												
18...	29	--	.42	.000	465	.63	290	200	.8	759	7.0	17.0
AUG.												
31...	150	--	2.0	.010	2110	2.87	1200	1100	2.0	2810	7.0	20.5

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued
 CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	ALKA- LINITY AS CACO ₃ (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
09346000 - NAVAJO R AT EDITH,CO (LAT 37 00 10 LONG 106 54 25)												
OCT., 1971												
18...	46	24	20	27	6.9	10	1.9	88	0	72	54	2.6
FEB., 1972												
15...	30	26	40	30	6.0	9.4	1.9	79	0	65	49	1.3
MAY												
23...	87	20	60	19	5.4	6.5	1.5	70	0	57	30	1.4
31...	88	--	--	--	--	--	--	--	--	--	--	--
JUNE												
13...	60	--	--	--	--	--	--	--	--	--	--	--
JULY												
05...	48	--	--	--	--	--	--	--	--	--	--	--
AUG.												
01...	24	--	--	--	--	--	--	--	--	--	--	--
28...	20	23	40	34	8.8	12	2.9	--	--	104	59	1.1
SEP.												
05...	27	--	--	--	--	--	--	--	--	--	--	--
09346400 - SAN JUAN R NR CARRACAS,CO (LAT 37 00 43 LONG 107 18 34)												
OCT., 1971												
19...	278	17	10	31	9.2	19	2.2	97	0	80	76	4.1
FEB., 1972												
15...	200	17	30	38	8.9	25	3.1	113	0	93	93	4.6
MAY												
23...	980	16	50	14	2.7	6.0	1.1	53	0	43	18	1.7
AUG.												
29...	88	18	120	40	9.9	30	4.5	153	0	125	84	5.2
09349800 - PIEDRA R NR ARBOLES,CO (LAT 37 05 18 LONG 107 23 50)												
OCT., 1971												
19...	202	16	20	36	5.3	11	2.0	102	0	84	55	3.3
FEB., 1972												
15...	80	16	20	59	9.2	21	2.9	152	0	125	110	4.1
MAY												
23...	622	13	50	19	2.6	5.2	1.2	61	0	50	20	1.6
AUG.												
29...	42	15	10	63	8.5	22	2.9	159	0	130	100	4.4
09354500 - LOS PINOS R AT LA BOCA,CO (LAT 37 00 37 LONG 107 35 49)												
OCT., 1971												
19...	135	6.9	0	34	5.6	18	2.2	147	0	121	28	5.9
FEB., 1972												
15...	130	2.4	30	28	4.5	13	1.6	115	0	94	19	3.6
MAY												
23...	112	4.8	50	34	5.6	17	3.0	132	7	120	24	5.0
AUG.												
29...	135	6.9	90	32	6.2	19	2.4	159	0	130	21	3.1
09363500 - ANIMAS R NR CEDAR HILL,NM (LAT 37 02 15 LONG 107 52 25)												
OCT., 1971												
20...	445	12	10	68	10	19	1.9	153	0	126	110	6.0
NOV.												
15...	420	7.5	--	68	10	20	2.6	142	0	116	120	17
FEB., 1972												
14...	282	8.2	10	77	13	21	3.2	174	0	143	130	18
MAY												
22...	1630	5.6	60	34	4.8	6.1	1.3	82	0	67	49	5.9
JULY												
31...	299	4.4	10	72	12	30	4.2	170	0	139	110	27
AUG.												
29...	317	8.1	10	78	14	35	4.5	192	0	157	120	29
SEP.												
25...	--	18	20	60	8.9	19	3.0	128	0	105	110	17

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued
 CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

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DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	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 ORTHO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)
09346000 - NAVAJO R AT EDITH,CO (LAT 37 00 10 LONG 106 54 25)												
OCT., 1971												
18...	.3	.00	.000	.23	.08	.31	.31	.090	.030	130	170	.18
FEB., 1972												
15...	.3	1.3	.000	.07	.30	.37	1.7	.090	.020	166	169	.23
MAY												
23...	.1	.01	.000	.04	.25	.29	.30	.090	.040	118	119	.16
31...	--	--	--	--	--	--	--	--	--	--	--	--
JUNE												
13...	--	--	--	--	--	--	--	--	--	--	--	--
JULY												
05...	--	--	--	--	--	--	--	--	--	--	--	--
AUG.												
01...	--	--	--	--	--	--	--	--	--	--	--	--
28...	.2	.00	.000	.01	.29	.30	.30	.11	.050	194	183	.26
SEP.												
05...	--	--	--	--	--	--	--	--	--	--	--	--
09346400 - SAN JUAN R NR CARRACAS,CO (LAT 37 00 43 LONG 107 18 34)												
OCT., 1971												
19...	.4	.00	.000	.19	.77	.96	.96	.58	.030	244	207	.33
FEB., 1972												
15...	.3	.18	.000	.05	.90	.95	1.1	.43	.010	270	246	.37
MAY												
23...	.1	.00	.000	.05	.13	.18	.18	.22	.040	90	86	.12
AUG.												
29...	.3	.00	.000	.01	.50	.51	.51	.15	.010	258	267	.35
09349800 - PIEDRA R NR ARBOLES,CO (LAT 37 05 18 LONG 107 23 50)												
OCT., 1971												
19...	.3	.00	.000	.22	.05	.27	.28	.10	.010	214	179	.29
FEB., 1972												
15...	.3	.00	.000	.10	.36	.46	.46	.060	.000	286	297	.39
MAY												
23...	.1	.00	.000	.04	.09	.13	.13	.11	.020	108	93	.15
AUG.												
29...	.4	.00	.000	.01	.22	.23	.23	.030	.010	292	294	.40
09354500 - LOS PINOS R AT LA BOCA,CO (LAT 37 00 37 LONG 107 35 49)												
OCT., 1971												
19...	.4	.00	.000	.19	.11	.30	.31	.10	.040	208	174	.28
FEB., 1972												
15...	.2	.00	.000	.11	.47	.58	.58	.070	.000	152	129	.21
MAY												
23...	.3	.00	.000	.16	.30	.46	.46	.24	.10	170	166	.23
AUG.												
29...	.4	.00	.010	.09	.41	.50	.50	.090	.010	174	169	.24
09363500 - ANIMAS R NR CEDAR HILL,NM (LAT 37 02 15 LONG 107 52 25)												
OCT., 1971												
20...	.5	.50	.000	.12	.14	.26	.74	.13	.030	300	305	.41
NOV.												
15...	.3	--	--	--	--	--	--	--	--	336	316	.46
FEB., 1972												
14...	.4	.20	.000	.10	.35	.45	.65	.080	.030	348	358	.47
MAY												
22...	.2	.12	.000	.07	.12	.19	.31	.15	.010	158	148	.21
JULY												
31...	.5	.02	.000	.08	.20	.28	.30	.050	.000	378	344	.51
AUG.												
29...	.6	.00	1.0	.07	.13	.20	.22	.080	.010	376	384	.51
SEP.												
25...	.5	.00	.000	.10	.04	.14	.14	.080	.24	284	300	.39

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued
 CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

DATE	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)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	SUS- PENDE SEDIMENT (MG/L)	SUS- PENDE SEDIMENT DIS- CHARGE (T/DAY)
09346000 - NAVAJO R AT EDITH, CO (LAT 37 00 10 LONG 106 54 25)												
OCT., 1971												
18...	96	24	.4	243	7.5	6.5	5	7	6	20	14	2.0
FEB., 1972												
15...	100	35	.4	242	7.8	.0	10	20	7	10	33	2.7
MAY												
23...	70	12	.3	180	7.2	9.0	15	10	5	30	28	6.6
31...	--	--	--	--	--	12.0	--	--	--	--	72	17
JUNE												
13...	--	--	--	--	--	18.0	--	--	--	--	95	15
JULY												
05...	--	--	--	--	--	14.0	--	5	--	--	11	1.4
AUG.												
01...	--	--	--	--	--	21.0	--	6	--	--	10	.65
28...	120	96	.5	299	8.5	22.0	10	8	--	30	--	--
SEP.												
05...	--	--	--	--	--	15.0	--	3	--	--	8	.58
09346400 - SAN JUAN R NR CARRACAS, CO (LAT 37 00 43 LONG 107 18 34)												
OCT., 1971												
19...	120	36	.8	319	7.7	3.0	20	350	4	40	703	528
FEB., 1972												
15...	130	39	.9	384	7.9	.0	30	170	6	50	632	341
MAY												
23...	46	3	.4	125	7.4	12.0	20	35	4	30	151	400
AUG.												
29...	140	15	1.1	424	8.2	18.0	20	75	--	80	131	31
09349800 - PIEDRA R NR ARBOLES, CO (LAT 37 05 18 LONG 107 23 50)												
OCT., 1971												
19...	110	28	.5	273	7.4	6.5	15	35	6	20	63	34
FEB., 1972												
15...	190	60	.7	456	8.3	6.0	15	35	5	40	43	9.3
MAY												
23...	58	8	.3	142	7.8	12.5	10	20	3	40	72	121
AUG.												
29...	190	62	.7	461	8.2	17.0	2	2	--	50	--	--
09354500 - LOS PINOS R AT LA BOCA, CO (LAT 37 00 37 LONG 107 35 49)												
OCT., 1971												
19...	110	0	.8	284	7.9	10.0	10	40	6	10	68	25
FEB., 1972												
15...	88	0	.6	225	7.6	6.0	30	35	10	10	48	17
MAY												
23...	110	0	.7	277	8.6	18.0	50	40	5	40	68	21
AUG.												
29...	110	0	.8	291	8.1	17.5	30	25	--	20	44	16
09363500 - ANIMAS R NR CEDAR HILL, NM (LAT 37 02 15 LONG 107 52 25)												
OCT., 1971												
20...	210	85	.6	491	8.0	8.0	5	25	3	50	219	263
NOV.												
15...	210	94	.6	501	8.1	7.0	5	7	6	--	--	--
FEB., 1972												
14...	250	100	.6	572	8.3	5.0	3	10	4	60	31	24
MAY												
22...	100	37	.3	253	7.6	11.0	10	25	4	50	144	634
JULY												
31...	230	90	.9	579	7.5	24.0	5	5	--	90	--	--
AUG.												
29...	250	95	1.0	620	8.1	17.0	5	10	--	100	38	33
SEP.												
25...	190	81	.6	472	8.2	15.5	10	9	--	70	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued
 CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO_2) (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 (HCO_3) (MG/L)	CAR- BONATE (CO_3) (MG/L)	ALKA- LITY AS CaCO_3 (MG/L)	DIS- SOLVED SULFATE (SO_4) (MG/L)
09366500 - LAPLATA R AT COLO-NEW MEXICO STATELINE (LAT 36 59 59 LONG 108 11 17)												
DEC., 1971												
06...	8.5	14	--	--	160	82	64	2.2	294	0	241	590
MAR., 1972												
02...	15	13	--	--	150	72	53	2.5	280	0	230	490
JUNE												
05...	92	9.7	--	--	110	63	41	4.8	240	0	197	390
SEP.												
13...	.35	12	--	--	99	43	42	3.6	190	0	156	350
09371000 - MANCOS RIVER NR TOWAOC, CO. (LAT 37 01 39 LONG 108 44 27)												
DEC., 1971												
06...	16	8.9	--	--	210	110	110	3.3	273	0	224	930
MAR., 1972												
02...	21	8.5	--	--	180	94	120	3.6	233	0	191	850
JUNE												
05...	.52	8.5	--	--	250	150	170	6.3	186	0	153	1400
09372000 - MCELMO CR NR COLORADO-UTAH STATE LINE (LAT 37 19 27 LONG 109 00 54)												
DEC., 1971												
06...	46	12	--	--	390	250	270	5.0	374	0	307	2100
MAR., 1972												
02...	28	9.0	--	--	360	250	290	5.2	350	0	287	2100
JUNE												
05...	94	12	--	--	240	130	140	5.9	314	0	258	1100

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued
 CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

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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 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)	TEMPER- ATURE (DEG C)
09366500 - LAPLATA R AT COLO-NEW MEXICO STATELINE (LAT 36 59 59 LONG 108 11 17)												
DEC., 1971												
06...	29	--	.35	.010	1090	1.48	740	500	1.0	1510	7.9	.0
MAR., 1972												
02...	25	--	.56	.000	946	1.29	670	440	.9	1280	8.0	7.0
JUNE												
05...	6.6	--	.09	.000	744	1.01	530	340	.8	1070	7.6	20.0
SEP.												
13...	20	--	.09	.010	663	.90	420	270	.9	967	8.2	22.0
09371000 - MANCOS RIVER NR TOWAOC, CO. (LAT 37 01 39 LONG 108 44 27)												
DEC., 1971												
06...	14	--	.18	.000	1520	2.07	980	750	1.5	1960	8.0	1.0
MAR., 1972												
02...	17	--	.33	.000	1390	1.89	840	640	1.8	1760	8.0	8.0
JUNE												
05...	20	--	.05	.000	2100	2.86	1200	1100	2.1	2490	7.8	23.0
09372000 - MCELMO CR NR COLORADO-UTAH STATE LINE (LAT 37 19 27 LONG 109 00 54)												
DEC., 1971												
06...	52	--	3.0	.050	3280	4.46	2000	1700	2.6	3670	8.0	.0
MAR., 1972												
02...	59	--	5.4	.080	3270	4.45	1900	1600	2.9	3690	8.0	3.0
JUNE												
05...	28	--	1.5	.060	1820	2.48	1100	880	1.8	2280	7.7	18.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- SOLVED SULFATE (SO ₄) (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 AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM
06695000 - S. PLATTE R. AB. ELEVENMILE CANYON RES. (LAT 38 58 03 LONG 105 34 51)											
APR., 1972 26...	130	100	.3	.04	.020	532	.72	50.3	300	100	36
06700500 - GOOSE CREEK AB. CHEESMAN LAKE (LAT 39 12 32 LONG 105 18 11)											
MAY, 1972 01...	8.8	.3	1.4	.06	.010	41	.06	3.10	17	2	24
06706000 - N. F. SOUTH PLATTE R. 8L. GENEVA CR. AT GRANT (LAT 39 27 26 LONG 105 39 29)											
APR., 1972 28...	24	.8	.2	.05	.010	62	.08	7.37	32	17	14
06707000 - N. F. SOUTH PLATTE R. AT SOUTH PLATTE (LAT 39 24 32 LONG 105 10 31)											
MAY, 1972 02...	17	1.1	.6	.01	.000	68	.09	17.1	42	13	16
06707500 - S. PLATTE R. AT SOUTH PLATTE (LAT 39 24 33 LONG 105 10 10)											
MAY, 1972 01...	19	4.2	.7	.04	.020	80	.11	43.2	44	9	22
06709500 - PLUM CR. NR. LOUVIERS (LAT 39 29 04 LONG 105 00 07)											
APR., 1972 25...	44	9.0	1.6	.16	.060	191	.26	1.29	120	22	19
06710500 - BEAR CR. AT. MORRISON (LAT 39 39 11 LONG 105 11 43)											
APR., 1972 18...	10	3.6	.4	.15	.17	75	.10	4.05	45	2	27
06711500 - BEAR C AT MDUTH AT SHERIDAN, CO (LAT 39 39 08 LONG 105 01 57)											
APR., 1972 19...	110	16	.5	.61	.060	360	.49	17.5	240	69	22
06712000 - CHERRY CR. NR. FRANKTOWN (LAT 39 21 21 LONG 104 45 46)											
MAY, 1972 02...	13	5.1	.2	.11	.12	134	.18	6.87	75	0	21
06713500 - CHERRY CR. AT DENVER (LAT 39 44 58 LONG 105 00 08)											
APR., 1972 19...	160	82	.7	2.3	.58	626	.85	12.8	320	81	37
06714000 - S. PLATTE R. AT DENVER (LAT 39 45 35 LONG 105 00 10)											
APR., 1972 19...	100	56	.8	2.6	.49	395	.54	190	210	70	36
06716500 - CLEAR CR. NEAR LAWSON (LAT 39 45 57 LONG 105 37 32)											
APR., 1972 20...	69	8.7	1.5	.71	.000	223	.30	28.3	120	27	28
06719500 - CLEAR C NR GOLDEN, CO (LAT 39 45 02 LONG 105 14 54)											
DEC., 1971 23...	93	--	--	--	--	--	--	--	--	--	--
APR., 1972 21...	82	7.0	.9	.33	.000	200	.27	38.3	110	50	24

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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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- LITY AS CACO3 (MG/L)
06695000 - S. PLATTE R. AB. ELEVENMILE CANYON RES. (LAT 38 58 03 LONG 105 34 51)											
APR., 1972 26...	35	7.2	20	50	66	32	77	3.3	236	0	194
06700500 - GODSE CREEK AB. CHEESMAN LAKE (LAT 39 12 32 LONG 105 18 11)											
MAY , 1972 01...	28	11	470	25	5.1	1.0	2.6	1.1	18	0	15
06706000 - N. F. SOUTH PLATTE R. BL. GENEVA CR. AT GRANT (LAT 39 27 26 LONG 105 39 29)											
APR., 1972 28...	44	13	90	75	8.5	2.6	2.5	1.1	18	0	15
06707000 - N. F. SOUTH PLATTE R. AT SOUTH PLATTE (LAT 39 24 32 LONG 105 10 31)											
MAY , 1972 02...	93	12	70	13	12	2.9	3.8	1.3	35	0	29
06707500 - S. PLATTE R. AT SOUTH PLATTE (LAT 39 24 33 LONG 105 10 10)											
MAY , 1972 01...	200	12	70	25	12	3.4	5.8	1.4	43	0	35
06709500 - PLUM CR. NR. LOUVIERS (LAT 39 29 04 LONG 105 00 07)											
APR., 1972 25...	2.5	20	40	25	37	5.7	13	4.0	114	0	94
06710500 - BEAR CR. AT. MORRISON (LAT 39 39 11 LONG 105 11 43)											
APR., 1972 18...	20	7.6	130	13	13	3.1	8.0	1.7	53	0	43
06711500 - BEAR C AT MOUTH AT SHERIDAN, CO (LAT 39 39 08 LONG 105 01 57)											
APR., 1972 19...	18	9.8	70	83	69	16	32	2.3	206	0	169
06712000 - CHERRY CR. NR. FRANKTOWN (LAT 39 21 21 LONG 104 45 46)											
MAY , 1972 02...	19	24	--	--	23	4.2	9.9	3.7	101	0	83
06713500 - CHERRY CR. AT DENVER (LAT 39 44 58 LONG 105 00 08)											
APR., 1972 19...	7.6	17	40	110	99	17	89	7.4	288	0	236
06714000 - S. PLATTE R. AT DENVER (LAT 39 45 35 LONG 105 00 10)											
APR., 1972 19...	178	11	60	260	58	15	55	4.3	166	0	136
06716500 - CLEAR CR. NEAR LAWSON (LAT 39 45 57 LONG 105 37 32)											
APR., 1972 20...	47	11	30	600	38	6.0	23	6.1	113	0	93
06719500 - CLEAR C NR GOLDEN, CO (LAT 39 45 02 LONG 105 14 54)											
DEC., 1971 23...	--	--	20	1500	--	--	--	--	--	--	--
APR., 1972 21...	71	11	20	1100	32	7.2	17	4.4	72	0	59

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued
 CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

DATE	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
06695000 - S. PLATTE R. AB. ELEVENMILE CANYON RES. (LAT 38 58 03 LONG 105 34 51)										
APR., 1972 26...	1.9	928	8.1	2.5	.0	1	0	2	1	7
06700500 - GOOSE CREEK AB. CHEESMAN LAKE (LAT 39 12 32 LONG 105 18 11)										
MAY , 1972 01...	.3	49	6.6	5.5	--	2	0	2	0	10
06706000 - N. F. SOUTH PLATTE R. BL. GENEVA CR. AT GRANT (LAT 39 27 26 LONG 105 39 29)										
APR., 1972 28...	.2	89	7.0	9.0	.0	2	0	2	0	10
06707000 - N. F. SOUTH PLATTE R. AT SOUTH PLATTE (LAT 39 24 32 LONG 105 10 31)										
MAY , 1972 02...	.3	103	7.0	6.0	2.5	0	0	2	0	7
06707500 - S. PLATTE R. AT SOUTH PLATTE (LAT 39 24 33 LONG 105 10 10)										
MAY , 1972 01...	.4	125	7.2	13.0	2.5	7	0	2	0	10
06709500 - PLUM CR. NR. LOUVIERS (LAT 39 29 04 LONG 105 00 07)										
APR., 1972 25...	.5	299	7.5	4.5	2.5	3	0	2	0	0
06710500 - BEAR CR. AT. MORRISON (LAT 39 39 11 LONG 105 11 43)										
APR., 1972 18...	.5	123	7.0	8.0	--	0	0	8	2	7
06711500 - BEAR C AT MOUTH AT SHERIDAN, CO (LAT 39 39 08 LONG 105 01 57)										
APR., 1972 19...	.9	593	7.7	--	.0	0	0	3	0	10
06712000 - CHERRY CR. NR. FRANKTOWN (LAT 39 21 21 LONG 104 45 46)										
MAY , 1972 02...	.5	199	7.5	13.0	6.0	0	0	0	--	--
06713500 - CHERRY CR. AT DENVER (LAT 39 44 58 LONG 105 00 08)										
APR., 1972 19...	2.2	1000	8.1	11.0	3.5	1	0	10	2	40
06714000 - S. PLATTE R. AT DENVER (LAT 39 45 35 LONG 105 00 10)										
APR., 1972 19...	1.7	669	7.1	9.5	2.5	2	1	7	1	20
06716500 - CLEAR CR. NEAR LAWSON (LAT 39 45 57 LONG 105 37 32)										
APR., 1972 20...	.9	360	7.6	4.0	1.5	3	1	6	2	220
06719500 - CLEAR C NR GOLDEN, CO (LAT 39 45 02 LONG 105 14 54)										
DEC., 1971 23...	--	346	--	.0	--	6	2	10	1	590
APR., 1972 21...	.7	318	7.3	9.5	1.5	1	0	10	0	180

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued
 CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

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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 (CO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)
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06720000 - CLEAR CR. AT MOUTH NR. DERBY (LAT 39 49 42 LONG 104 57 30)

APR., 1972											
24...	10	5.9	80	590	66	17	96	10	223	0	183

06722500 - S. ST. VRAIN CR. NR. WARD (LAT 40 05 27 LONG 105 30 50)

MAY , 1972											
09...	11	10	220	25	5.4	1.1	1.8	.6	25	0	21

06724000 - ST. VRAIN CR. AT LYONS (LAT 40 13 05 LONG 105 15 34)

MAY , 1972											
05...	48	7.7	40	13	7.1	1.3	2.5	.5	24	0	20

06727000 - BOULDER CR. NR. DRODELL (LAT 40 00 23 LONG 105 49 49)

MAY , 1972											
08...	68	5.7	90	0	7.9	2.2	2.3	.9	34	0	28

06730300 - COAL CR. NR. PLAINVIEW (LAT 39 52 40 LONG 105 16 36)

MAY , 1972											
08...	12	11	100	13	9.7	2.6	5.6	1.1	28	0	23

06735500 - BIG THOMPSON R. NR. ESTES PARK (LAT 40 22 35 LONG 105 29 06)

MAY , 1972											
09...	111	5.9	170	0	6.1	1.1	1.6	.7	24	0	20

06738000 - BIG THOMPSON R. AT MOUTH OF CANYON NR. DRAKE (LAT 40 25 18 LONG 105 13 34)

MAY , 1972											
10...	130	7.1	120	13	6.0	1.2	2.1	.8	24	0	20

06748600 - S. F. CACHE LA POUDE R. NR RUSTIC (LAT 40 38 49 LONG 105 29 35)

MAY , 1972											
19...	98	8.6	140	0	3.6	.9	2.3	.6	18	0	15

DATE	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	ALDRIN (UG/L)	CHLOR- DANE (UG/L)	DDO (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- AZINON (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)
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06748600 - S. F. CACHE LA POUDE R. NR RUSTIC (LAT 40 38 49 LONG 105 29 35)

MAY , 1972										
19...	98		9.5	.00	.0	.00	.00	.00	.00	.00

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 (CO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)
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06754000 - S. PLATTE R. NR. KERSEY (LAT 40 24 44 LONG 104 33 46)

MAY , 1972											
23...	156	11	20	290	140	64	130	7.1	307	0	252

3B1254106044500 - KERBER C AB L KERBER C NR BONANZA, CO. (LAT 38 12 54 LONG 106 04 45)

NOV., 1971											
04...	--	21	340	7400	56	8.6	7.1	1.2	4	0	3

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued
 CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

DATE	DIS- SOLVED SULFATE (SO ₄) (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 (TDNS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM
06720000 - CLEAR CR. AT MOUTH NR. DERBY (LAT 39 49 42 LONG 104 57 30)											
APR., 1972 24...	170	61	1.2	3.5	1.2	557	.76	15.0	230	52	46
06722500 - S. ST. VRAIN CR. NR. WARD (LAT 40 05 27 LONG 105 30 50)											
MAY, 1972 09...	6.5	.7	.1	.02	.010	39	.05	1.16	18	0	17
06724000 - ST. VRAIN CR. AT LYONS (LAT 40 13 05 LONG 105 15 34)											
MAY, 1972 05...	6.7	1.4	.3	.03	.020	40	.05	5.18	23	3	19
06727000 - BOULDER CR. NR. DRODELL (LAT 40 00 23 LONG 105 49 49)											
MAY, 1972 08...	7.0	.9	.1	1.1	.010	49	.07	9.00	29	1	14
06730300 - COAL CR. NR. PLAINVIEW (LAT 39 52 40 LONG 105 16 36)											
MAY, 1972 08...	8.0	8.6	.2	1.8	.000	69	.09	2.24	35	12	25
06735500 - BIG THOMPSON R. NR. ESTES PARK (LAT 40 22 35 LONG 105 29 06)											
MAY, 1972 09...	5.2	.3	.1	.04	.000	33	.04	9.89	20	0	14
06738000 - BIG THOMPSON R. AT MOUTH OF CANYON NR. DRAKE (LAT 40 25 18 LONG 105 13 34)											
MAY, 1972 10...	6.2	1.2	.3	.05	.000	37	.05	13.0	20	0	18
06748600 - S. F. CACHE LA POUDE R. NR RUSTIC (LAT 40 38 49 LONG 105 29 35)											
MAY, 1972 19...	6.1	.7	.2	.04	.010	32	.04	8.47	13	0	27
DATE	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR (UG/L)	LINDANE (UG/L)	MALA- THION (UG/L)	METHYL PARA- THION (UG/L)	PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	
06749600 - S. F. CACHE LA POUDE R. NR RUSTIC (LAT 40 39 49 LONG 105 29 35)											
MAY, 1972 19...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
DATE	DIS- SOLVED SULFATE (SO ₄) (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 AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM
06754000 - S. PLATTE R. NR. KERSEY (LAT 40 24 44 LONG 104 33 46)											
MAY, 1972 23...	570	49	1.0	3.3	.40	1140	1.55	480	610	360	31
381254106044500 - KERBER C AB L KERBER C NR BONANZA, CO. (LAT 38 12 54 LONG 106 04 45)											
NOV., 1971 04...	220	1.7	.5	.06	.010	335	.46	--	180	170	8

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued
 CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

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DATE	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
06720000 - CLEAR CR. AT MOUTH NR. DERBY (LAT 39 49 42 LONG 104 57 30)										
APR., 1972 24...	2.7	907	7.3	13.0	7.0	2	0	4	0	20
06722500 - S. ST. VRAIN CR. NR. WARD (LAT 40 05 27 LONG 105 30 50)										
MAY , 1972 09...	.2	40	6.9	1.0	--	2	0	1	0	7
06724000 - ST. VRAIN CR. AT LYONS (LAT 40 13 05 LONG 105 15 34)										
MAY , 1972 05...	.2	53	6.9	8.0	--	8	0	1	0	0
06727000 - BOULDER CR. NR. ORODELL (LAT 40 00 23 LONG 105 49 49)										
MAY , 1972 08...	.2	73	7.0	9.5	1.5	4	0	2	1	0
06730300 - COAL CR. NR. PLAINVIEW (LAT 39 52 40 LONG 105 16 36)										
MAY , 1972 08...	.4	98	6.9	8.5	3.5	4	0	2	0	30
06735500 - BIG THOMPSON R. NR. ESTES PARK (LAT 40 22 35 LONG 105 29 06)										
MAY , 1972 09...	.2	47	6.8	8.0	1.5	3	0	2	0	7
06738000 - BIG THOMPSON R. AT MOUTH OF CANYON NR. DRAKE (LAT 40 25 18 LONG 105 13 34)										
MAY , 1972 10...	.2	49	6.8	9.0	4.5	0	0	2	0	7
06748600 - S. F. CACHE LA POUDE R. NR RUSTIC (LAT 40 38 49 LONG 105 29 35)										
MAY , 1972 19...	.3	34	7.6	9.5	6.0	0	0	1	0	0

DATE	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
06754000 - S. PLATTE R. NR. KERSEY (LAT 40 24 44 LONG 104 33 46)										
MAY , 1972 23...	2.3	1620	7.2	20.5	5.0	0	0	2	0	10
381254106044500 - KERBER C AB L KERBER C NR BONANZA, CO. (LAT 38 12 54 LONG 106 04 45)										
NOV., 1971 04...	.2	453	6.5	.0	--	10	30	120	1	9000

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued
 CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (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 (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	ALKA- LITY AS CACO ₃ (MG/L)
390414106270500 - LAKE C BL CRYSTAL LAKE C NR TWIN LAKES, CO (LAT 39 04 14 LONG 106 27 05)											
NOV., 1971 09...	--	6.1	10	60	15	2.2	2.2	.6	23	0	19
390419105582600 - S. FORK S. PLATTE R. AB. ANTERO RES. (LAT 39 04 19 LONG 105 58 26)											
APR., 1972 25...	--	8.3	40	50	61	19	3.2	1.0	173	0	142
390425105240600 - TARRYALL CR. UPSTREAM FROM MOUTH (LAT 39 04 25 LONG 105 24 06)											
APR., 1972 27... E20		9.7	100	38	32	8.6	12	2.6	126	0	103
391002105563800 - MIDDLE F. S. PLATTE R. BL. FAIRPLAY (LAT 39 10 02 LONG 105 56 38)											
APR., 1972 25... E30		4.9	20	13	34	15	1.6	1.0	137	0	112
391432104525100 - E. PLUM CR. NR. LARKSPUR (LAT 39 14 32 LONG 104 52 51)											
MAY , 1972 03... E20		18	100	38	20	2.8	7.2	3.0	62	0	51
392404104522200 - E. PLUM CR. NR CASTLE ROCK (LAT 39 24 04 LONG 104 52 22)											
MAY , 1972 02... E30		21	60	0	31	4.2	12	4.7	100	0	82
392725105432400 - N. F. SOUTH PLATTE R. AT WEBSTER (LAT 39 27 25 LONG 105 43 24)											
APR., 1972 28... E10		15	130	100	9.5	3.2	2.4	1.1	9	0	7
393148105435600 - GENEVA C AB DUCK C NR GRANT, CO (LAT 39 31 48 LONG 105 43 56)											
DEC., 1971 29...	--	--	320	770	--	--	--	--	--	--	--
APR., 1972 28... E20		11	320	460	11	3.6	3.6	1.1	3	0	2
393345105511300 - SNAKE R AB DEER C NR MONTEZUMA, CO. (LAT 39 33 45 LONG 105 51 13)											
DEC., 1971 14...	--	22	380	1100	12	5.7	3.4	.8	0	0	0
394506105394200 - CLEAR C AB W F CLEAR C NR EMPIRE, CO (LAT 39 45 06 LONG 105 39 42)											
DEC., 1971 22...	--	--	30	75	--	--	--	--	--	--	--
APR., 1972 20... E30		8.0	60	110	19	6.0	4.0	1.6	76	0	62
394541105410200 - LION CR. AT MOUTH AT EMPIRE (LAT 39 45 41 LONG 105 41 02)											
APR., 1972 20... E5.0		40	4100	9000	58	20	7.0	2.0	0	0	0
394608105102800 - CLEAR CR. AT MCINTIRE ST. BL. GOLDEN (LAT 39 46 08 LONG 105 10 28)											
APR., 1972 21...	--	21	180	490	68	12	120	37	314	0	258
400127105133000 - BOULDER CR. AT VALMONT (LAT 40 01 27 LONG 105 13 30)											
MAY , 1972 05... E30		5.0	90	58	15	4.5	10	3.4	81	0	66

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued
 CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

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DATE	DIS- SOLVED SULFATE (SO ₄) (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 AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM
390414106270500 - LAKE C BL CRYSTAL LAKE C NR TWIN LAKES, CO (LAT 39 04 14 LONG 106 27 05)											
NOV., 1971											
09...	30	.6	.1	.14	.010	69	.09	--	46	28	9
390419105582600 - S. FORK S. PLATTE R. AB. ANTERO RES. (LAT 39 04 19 LONG 105 58 26)											
APR., 1972											
25...	110	3.0	.2	.11	.000	291	.40	--	230	89	3
390425105240600 - TARRYALL CR. UPSTREAM FROM MOUTH (LAT 39 04 25 LONG 105 24 06)											
APR., 1972											
27...	31	4.8	.5	.02	.010	163	.22	8.80	120	12	18
391002105563800 - MIDDLE F. S. PLATTE R. BL. FAIRPLAY (LAT 39 10 02 LONG 105 56 38)											
APR., 1972											
25...	44	2.3	.3	.29	.000	172	.23	13.9	150	34	2
391432104525100 - E. PLUM CR. NR. LARKSPUR (LAT 39 14 32 LONG 104 52 51)											
MAY , 1972											
03...	21	4.6	1.2	.14	.030	109	.15	5.89	61	11	19
392404104522200 - E. PLUM CR. NR CASTLE ROCK (LAT 39 24 04 LONG 104 52 22)											
MAY , 1972											
02...	31	10	1.4	.37	.15	167	.23	13.5	95	13	21
392725105432400 - N. F. SOUTH PLATTE R. AT WEBSTER (LAT 39 27 25 LONG 105 43 24)											
APR., 1972											
28...	37	.8	.2	.04	.000	74	.10	2.00	37	29	12
393148105435600 - GENEVA C AB DUCK C NR GRANT, CO (LAT 39 31 48 LONG 105 43 56)											
DEC., 1971											
29...	96	--	--	--	--	--	--	--	--	--	--
APR., 1972											
28...	53	.9	.2	.07	.010	87	.12	4.70	42	40	15
393345105511300 - SNAKE R AB DEER C NR MONTEZUMA, CO. (LAT 39 33 45 LONG 105 51 13)											
DEC., 1971											
14...	89	.4	.3	.08	.010	136	.19	--	53	53	12
394506105394200 - CLEAR C AB W F CLEAR C NR EMPIRE, CO (LAT 39 45 06 LONG 105 39 42)											
DEC., 1971											
22...	22	--	--	--	--	--	--	--	--	--	--
APR., 1972											
20...	23	3.8	.4	.25	.060	105	.14	8.51	72	10	11
394541105410200 - LION CR. AT MOUTH AT EMPIRE (LAT 39 45 41 LONG 105 41 02)											
APR., 1972											
20...	360	.9	1.2	.14	.010	505	.69	6.82	230	230	6
394608105102800 - CLEAR CR. AT MCINTIRE ST. BL. GOLOEN (LAT 39 46 08 LONG 105 10 28)											
APR., 1972											
21...	160	82	1.3	.00	4.2	669	.91	--	220	0	50
400127105133000 - BOULDER CR. AT VALMONT (LAT 40 01 27 LONG 105 13 30)											
MAY , 1972											
05...	20	9.0	.4	.30	1.1	112	.15	9.07	56	0	27

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued
 CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

DATE	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
390414106270500 - LAKE C BL CRYSTAL LAKE C NR TWIN LAKES, CO (LAT 39 04 14 LONG 106 27 05)										
NOV., 1971 09...	.1	117	7.2	.0	--	2	0	6	1	10
390419105582600 - S. FORK S. PLATTE R. AB. ANTERO RES. (LAT 39 04 19 LONG 105 58 26)										
APR., 1972 25...	.1	462	7.8	11.0	--	0	1	0	0	20
390425105240600 - TARRYALL CR. UPSTREAM FROM MOUTH (LAT 39 04 25 LONG 105 24 06)										
APR., 1972 27...	.5	274	7.7	5.5	--	3	0	2	0	10
391002105563800 - MIDDLE F. S. PLATTE R. BL. FAIRPLAY (LAT 39 10 02 LONG 105 56 38)										
APR., 1972 25...	.1	297	8.0	8.5	--	8	0	2	1	30
391432104525100 - E. PLUM CR. NR. LARKSPUR (LAT 39 14 32 LONG 104 52 51)										
MAY , 1972 03...	.4	160	7.2	13.0	2.5	1	0	2	0	7
392404104522200 - E. PLUM CR. NR CASTLE ROCK (LAT 39 24 04 LONG 104 52 22)										
MAY , 1972 02...	.5	264	7.2	20.0	--	0	0	3	42	0
392725105432400 - N. F. SOUTH PLATTE R. AT WEBSTER (LAT 39 27 25 LONG 105 43 24)										
APR., 1972 28...	.2	102	6.9	1.0	--	0	0	2	0	50
393148105435600 - GENEVA C AB DUCK C NR GRANT, CO (LAT 39 31 48 LONG 105 43 56)										
DEC., 1971 29...	--	215	--	.0	--	0	2	40	3	250
APR., 1972 28...	.2	124	4.5	1.0	--	0	0	7	0	150
393345105511300 - SNAKE R AB DEER C NR MONTEZUMA, CO. (LAT 39 33 45 LONG 105 51 13)										
DEC., 1971 14...	.2	207	3.8	.0	--	0	5	31	12	500
394506105394200 - CLEAR C AB W F CLEAR C NR EMPIRE, CO (LAT 39 45 06 LONG 105 39 42)										
DEC., 1971 22...	--	170	--	.0	--	2	1	1	5	570
APR., 1972 20...	.2	171	7.2	4.0	--	5	2	4	5	390
394541105410200 - LION CR. AT MOUTH AT EMPIRE (LAT 39 45 41 LONG 105 41 02)										
APR., 1972 20...	.2	837	3.3	2.0	--	0	5	830	5	820
394608105102800 - CLEAR CR. AT MCINTIRE ST. BL. GOLDEN (LAT 39 46 08 LONG 105 10 28)										
APR., 1972 21...	3.5	971	6.9	19.5	--	20	1	20	7	0
400127105133000 - BOULDER CR. AT VALMONT (LAT 40 01 27 LONG 105 13 30)										
MAY , 1972 05...	.6	220	6.5	13.5	--	10	0	8	2	10

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued
 CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

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DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (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 (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	ALKA- LITY AS CACO ₃ (MG/L)
400410105033200 - COAL C AT MOUTH NR ERIE, CO (LAT 40 04 10 LONG 105 03 32)											
MAY , 1972 04...	E10	5.6	30	58	61	43	91	5.4	287	0	235
401223104493800 - S. PLATTE R. AT PLATTEVILLE (LAT 40 12 23 LONG 104 49 38)											
MAY , 1972 04...	E125	15	40	680	95	23	150	10	245	0	201
402300105014600 - BIG THOMPSON R. BL. LOVELAND (LAT 40 23 00 LONG 105 01 46)											
MAY , 1972 10...	--	8.4	60	58	69	24	32	3.0	116	0	95
402402105072200 - BIG THOMPSON R. AB. LOVELAND (LAT 40 24 02 LONG 105 07 22)											
MAY , 1972 10...	E30	8.8	50	13	43	9.6	8.4	1.2	85	0	70
403401105013600 - CACHE LA POUDE R. BL. FORT COLLINS (LAT 40 34 01 LONG 105 01 36)											
MAY , 1972 22...	--	7.4	150	10	12	2.5	3.9	1.1	41	0	34
403645105064900 - CACHE LA POUDE R. AB. FORT COLLINS (LAT 40 36 45 LONG 105 06 49)											
MAY , 1972 22...	--	.1	140	0	8.5	1.9	2.4	.9	35	0	29

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued
 CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

DATE	DIS- SOLVED SULFATE (SO ₄) (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 CONSTITUENTS) (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
400410105033200 - COAL C AT MOUTH NR ERIE, CO (LAT 40 04 10 LONG 105 03 32)											
MAY , 1972 04...	260	17	1.0	1.4	.73	634	.86	17.1	330	94	37
401223104493800 - S. PLATTE R. AT PLATTEVILLE (LAT 40 12 23 LONG 104 49 38)											
MAY , 1972 04...	270	120	1.2	5.5	3.4	840	1.14	284	330	130	49
402300105014600 - BIG THOMPSON R. BL. LOVELAND (LAT 40 23 00 LONG 105 01 46)											
MAY , 1972 10...	220	8.2	.4	.48	.54	426	.58	--	270	180	20
402402105072200 - BIG THOMPSON R. AB. LOVELAND (LAT 40 24 02 LONG 105 07 22)											
MAY , 1972 10...	97	2.1	.4	.19	.000	213	.29	17.3	150	77	11
403401105013600 - CACHE LA POUORE R. BL. FORT COLLINS (LAT 40 34 01 LONG 105 01 36)											
MAY , 1972 22...	9.3	2.2	.3	.29	.060	61	.08	--	40	7	17
403645105064900 - CACHE LA POUORE R. AB. FORT COLLINS (LAT 40 36 45 LONG 105 06 49)											
MAY , 1972 22...	8.1	1.8	.2	.03	.010	41	.06	--	29	0	15

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued
 CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

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DATE	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
400410105033200 - COAL C AT MOUTH NR ERIE, CO (LAT 40 04 10 LONG 105 03 32)										
MAY , 1972 04...	2.2	969	8.2	26.0	--	2	0	3	0	10
401223104493800 - S. PLATTE R. AT PLATTEVILLE (LAT 40 12 23 LONG 104 49 38)										
MAY , 1972 04...	3.6	1320	6.8	13.0	--	5	0	2	2	7
402300105014600 - BIG THOMPSON R. BL. LOVELAND (LAT 40 23 00 LONG 105 01 46)										
MAY , 1972 10...	.8	670	6.8	13.5	--	1	0	6	2	C
402402105072200 - BIG THOMPSON R. AB. LOVELAND (LAT 40 24 02 LONG 105 07 22)										
MAY , 1972 10...	.3	337	7.7	11.5	--	5	0	1	0	10
403401105013600 - CACHE LA POUDRE R. BL. FORT COLLINS (LAT 40 34 01 LONG 105 01 36)										
MAY , 1972 22...	.3	98	6.8	10.5	--	4	1	5	1	8
403645105064900 - CACHE LA POUDRE R. AB. FORT COLLINS (LAT 40 36 45 LONG 105 06 49)										
MAY , 1972 22...	.2	67	7.0	8.5	--	0	0	6	2	20

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