1973

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 1973

1972

OCTOBER

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

S	M	T	W	T	F	S
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19	20	21	22	23	24	25
26	27	28	29	30		

DECEMBER

S	M	T	W	T	F	S
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17	18	19	20	21	22	23
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31						

1973

JANUARY

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			

FEBRUARY

S	M	T	W	T	F	S
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11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28			

MARCH

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				1	2	3
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18	19	20	21	22	23	24
25	26	27	28	29	30	31

APRIL

S	M	T	W	T	F	S
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15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

MAY

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		

JUNE

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
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17	18	19	20	21	22	23
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JULY

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

AUGUST

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

SEPTEMBER

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						

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

Water resources records, 1973, 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

1974

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WATER RESOURCES DATA FOR COLORADO, 1973

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 1973 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 defined below. See also table for converting English units to International System (SI) Units on page

Acre-foot (ac-ft) is a quantity of water required to cover 1 acre (4,047 m^2) to a depth of 1 ft (0.3048 m) and is equal to 43,560 cubic feet (1,1234 m^3) or 325,851 gallons (1,234,000 1).

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

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 (0.02832 m^3) passing a given point during 1 second and is equivalent to 7.48 gallons (28.32 1) per second, or 448.8 gallons (1,699 1) per minute.

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

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

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

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

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

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

Particle size is the diameter, in millimetres (mm), of suspended sediment or bed material determined either by sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling) (Guy, 1969).

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

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

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis (Guy, 1969).

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

Ion	Multiply by	Ion	Multiply by
Aluminum (Al).....	0.11119	Iodide (I).....	0.00788
Ammonia as NH	.05544	Iron (Fe)*.....	.05372
Barium (Ba).....	.01456	Lead (Pb)*.....	.00965
Bicarbonate (HCO)	.01639	Lithium (Li)*...	.14411
Bromide (Br).....	.01251	Magnesium (Mg)..	.08226
Calcium (Ca).....	.04990	Manganese (Mn)*.	.03640
Carbonate (CO)...	.03333	Nickel (Ni)*....	.03406
Chloride (Cl).....	.02821	Nitrate (NO)...	.01613
Chromium (Cr)*....	.11539	Nitrite (NO)...	.02174
Cobalt (Co)*.....	.03394	Phosphate (PO).	.03159
Copper (Cu)*.....	.03148	Potassium (K)...	.02557
Cyanide (CN)*.....	.03844	Sodium (Na	.04350
Fluoride (F).....	.05264	Strontium (SR)*.	.02283
Hydrogen (H).....	.99209	Sulfate (SO)...	.02082
Hydroxide (OH	.05880	Zinc (Zn)*.....	.03060

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

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

Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by
0 - 8	1.00	201-217	1.13	411-424	1.26	619-634	1.39
8.05- 24	1.01	218-232	1.14	427-440	1.27	636-650	1.40
24.2 - 40	1.02	234-248	1.15	443-457	1.28	652-666	1.41
40.5 - 56	1.03	250-264	1.16	460-473	1.29	668-682	1.42
56.5 - 72	1.04	266-280	1.17	476-489	1.30	684-698	1.43
72.5 - 88	1.05	282-297	1.18	492-506	1.31	700-715	1.44
88.5 -104	1.06	299-313	1.19	508-522	1.32	717-730	1.45
105 -120	1.07	315-329	1.20	524-538	1.33	732-747	1.46
121 -136	1.08	331-345	1.21	540-554	1.34	749-762	1.47
137 -152	1.09	347-361	1.22	556-570	1.35	765-780	1.48
153 -169	1.10	363-378	1.23	572-585	1.36	782-796	1.49
170 -185	1.11	380-393	1.24	587-602	1.37	798-810	1.50
186 -200	1.12	395-409	1.25	604-617	1.38		

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

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 or 0.9 m above the bed) expressed as milligrams of dry sediments per litre of water-sediment mixture (mg/l).

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

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

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

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

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

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

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

Tons per acre-foot indicates the dry weight of dissolved solids in tons (0.9072 tonnes) in 1 acre-foot (1,233 m^3) of water. It is computed by multiplying the concentration in milligrams per litre by 0.00136.

Tons per day is the quantity of a substance in solution or suspension in tons (0.9072 tonnes) that passes a stream section during a 24-hour period.

Water year in Geological Survey reports dealing with surface water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1973, is called the "1973 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 number. In this report, the records are listed in downstream order by parts. All records for a drainage basin encompassing more than one State could be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

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

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 (fig. 1) shows the location of the surface-water stations sampled in 1973.

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 litre (mg/l) and water temperatures are given in degrees Celsius (centigrade, °C). In waters with a density of 1.00 g/ml (grams per millilitre), parts per million and milligrams per litre 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 litre. (See table 2 on page 5.) 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

*C = 5/9 (°F - 32) or °F = 9/5 (°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 concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross-section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross-sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the sub-divided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as

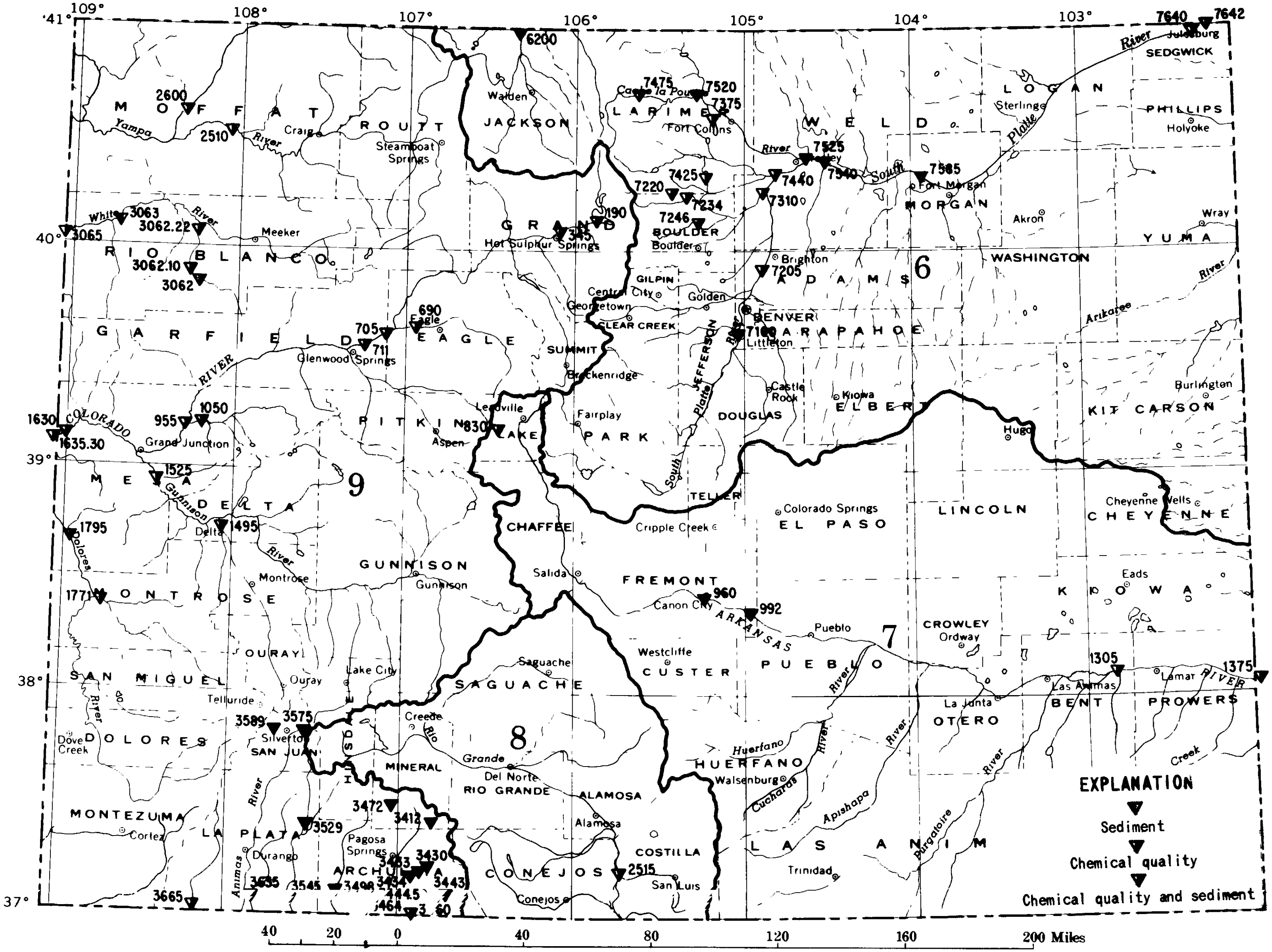

Figure 1.—Map of Colorado showing locations of sites where data on quality of surface water were obtained during the water year. Water-temperature data were obtained daily at some of these sites.

the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the sub-divided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

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

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

WATER-SUPPLY PAPERS

The annual series of water-supply papers that give information on quality of surface waters in Colorado are shown in the following table.

Table 4.--Water-supply paper numbers and parts, water years 1947-71

Year	Part 6	Part 7	Part 8	Part 9	Irrigation (1951-65)A
1941	942	942	942	942	----
1942	950	950	950	950	----
1943	970	970	970	970	----
1944	1022	1022	1022	1022	----
1945	1030	1030	1030	1030	----
1946	1050	1050	1050	1050	----
1947	1102	1102	1102	1102	----
1948	1132	1133	1133	1133	----
1949	1162	1163	1163	1163	----
1950	1187	1188	1188	1189	----
1951	1198	1199	1199	1200	1264
1952	1251	1252	1252	1253	1362
1953	1291	1292	1292	1293	1380
1954	1351	1352	1352	1353	1430
1955	1401	1402	1402	1403	1465
1956	1451	1452	1452	1453	1485
1957	1521	1522	1522	1523	1524
1958	1572	1573	1573	1574	1575
1959	1643	1644	1644	1645	1699
1960	1743	1744	1744	1745	1746
1961	1883	1884	1884	1885	1886
1962	1943	1944	1944	1945	1946
1963	1949	1950	1950	1951	1952
1964	1956	1957	1957	1958	1960
1965	1963	1964	1964	1965	1967
1966	1993	1994	1994	1995	----
1967	2013	2014	2014	2015	----
1968	2095	2096	B2097	2098	----
1969	B2145	B2146	B2147	B2148	----
1970	B2155	B2156	B2157	B2158	----
1971	B2165	B2166	B2167	B2168	----

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

B. In preparation.

ADDITIONAL WATER QUALITY DATA

During the 1973 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:

Danielson, T. W., late 1974, Lakes in the greater Denver area, Front Range Urban Corridor, Colorado: U.S. Geol. Survey Misc. Geol. Inv. Map I-856-B.

Ficke, J. F., and Danielson, T. W., late 1974, Evaporation from Denver water-supply reservoirs, Colorado: Denver, Colo., U.S. Geol. Survey Water-Resources Inv. xxx-74.

Hampton, E. R., 1974, Preliminary evaluation of ground water in the pre-Pennsylvanian carbonate rocks, McCoy area, Colorado: Denver, Colo., U.S. Geol. Survey open-file rept.

_____late 1974, Reconnaissance of ground water resources, Southern Ute Indian Reservation, Colorado: Colorado Water Conserv. Board Water Resources Circ.

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

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

Multiply English units	By	To obtain metric units
	Length	
inch (in.)	2.54	centimetre (cm)
	25.4	millimetre (mm)
	.0254	metre (m)
foot (ft)	.3048	metre (m)
yard (yd)	.9144	metre (m)
rod	5.0292	metre (m)
mile (mi)	1.609	kilometre (km)
	Area	
acre	4047	square metre (m^2)
	.4047	*hectare (ha)
	.4047	square hectometre (hm^2)
	.004047	square kilometre (km^2)
square mile (mi^2)	2.590	square kilometre (km^2)
	Volume	
gallon (gal)	3.785	**litre (l)
	3.785	cubic decimetre (dm^3)
	3.785×10^{-3}	cubic metre (m^3)
million gallons (10^6 gal)	3785	cubic metre (m^3)
	3.785×10^{-3}	cubic hectometre (hm^3)
cubic foot (ft^3)	28.32	cubic decimetre (dm^3)
	.02832	cubic metre (m^3)
cubic foot per second-day (ft^3/s-day)	2447	cubic metre (m^3)
	2.447×10^{-3}	cubic hectometre (hm^3)
acre-foot (acre-ft)	1233	cubic metre (m^3)
	1.233×10^{-3}	cubic hectometre (hm^3)
	1.233×10^{-6}	cubic kilometre (km^3)
	Flow	
cubic foot per second (ft^3/s)	28.32	litre per second (l/s)
	28.32	cubic decimetre per second (dm^3/s)
	.02832	cubic metre per second (m^3/s)
gallon per minute (gpm)	.06309	litre per second (l/s)
	.06309	cubic decimetre per second (dm^3/s)
	6.309×10^{-5}	cubic metre per second (m^3/s)
million gallons per day (mgd)	43.81	cubic decimetre per second (dm^3/s)
	.04381	cubic metre per second (m^3/s)
	Mass	
ton (short)	907.2	kilogram (kg)
	.9072	tonne (t)

*The unit hectare is approved for use with the International System (SI) for a limited time. See NBS Special Bulletin 330, p. 15, 1972 edition.

**The unit litre is accepted for use with the International System (SI). See NBS Special Bulletin 330, p. 13, 1972 edition.

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 (110 m) downstream from bridge on State Highway 125, 0.8 mi (1.3 km) upstream from Camp Creek, 4.2 mi (6.8 km) northwest of Northgate, and 4.4 mi (7.1 km) south of Colorado-Wyoming State line.

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

PERIOD OF RECORD.--Chemical analyses: October 1965 to September 1973.
Water temperatures: October 1965 to September 1966, June 1971 to November 1972 (discontinued).
Sediment records: October 1971 to September 1973.

EXTREMES.--October to November 1972:
Water temperatures: Maximum, 13.5°C Oct. 3; minimum, freezing point on several days during November.
Period of record:
Water temperatures: Maximum, 22.0°C Aug. 15, 25, 1971, July 29, Aug. 9, 13, 1972; minimum, freezing point on many days during winter period.

REMARKS.--Temperature recorder at gaging station discontinued Nov. 8, 1972; record furnished by Wyoming Game and Fish Commission.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT.												
01...	105	7.5	100	31	6.7	14	1.9	120	0	98	32	2.0
12...	135	9.3	120	27	7.1	12	1.9	119	0	98	21	2.7
NOV.												
07...	270	12	130	31	7.8	16	1.9	124	0	102	36	3.3
DEC.												
18...	110	14	150	33	5.9	12	1.6	129	0	106	23	2.7
JAN.												
29...	100	15	150	31	7.8	15	1.6	134	0	110	28	3.3
FEB.												
23...	100	15	160	33	5.9	16	1.9	133	0	109	24	5.0
MAR.												
21...	120	14	230	39	3.6	16	2.8	138	0	113	29	5.3
APR.												
24...	780	10	900	28	6.6	20	4.6	110	0	90	43	7.4
MAY												
30...	1150	12	210	29	5.3	16	2.1	113	0	93	27	4.2
JUNE												
13...	2290	12	310	33	3.6	12	1.9	120	0	98	21	1.8
JULY												
24...	1070	9.8	190	27	6.8	14	1.4	123	0	101	19	1.8
AUG.												
22...	242	7.5	130	28	3.9	11	1.4	112	0	92	13	1.8
SEP.												
19...	140	9.3	80	35	4.0	12	1.6	124	1	103	20	3.7

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED BORON (B) (UG/L)
OCT.											
01...	.6	--	158	155	110	12	.6	273	8.3	10.5	80
12...	.5	.02	148	140	98	0	.5	248	8.3	13.5	30
NOV.											
07...	.5	.05	180	170	110	8	.7	285	8.0	1.0	20
DEC.											
18...	.5	.09	154	156	110	4	.5	258	7.6	.0	30
JAN.											
29...	.6	.07	168	169	110	0	.6	280	7.5	.0	20
FEB.											
23...	.5	.14	164	167	110	1	.7	278	8.0	.0	30
MAR.											
21...	.6	.11	184	179	110	0	.7	290	7.9	.0	30
APR.											
24...	.3	.20	180	176	100	10	.9	290	7.6	1.0	40
MAY											
30...	.4	.11	162	152	95	2	.7	254	8.0	13.5	60
JUNE											
13...	.5	.14	156	146	98	0	.5	245	7.8	17.5	50
JULY											
24...	.4	.07	152	142	96	0	.6	245	8.0	14.0	20
AUG.											
22...	.4	.09	126	123	87	0	.5	225	8.1	17.0	20
SEP.											
19...	.4	.07	146	148	100	0	.5	253	8.4	15.0	0

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

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1972 to SEPTEMBER 1973

DATE	TIME	DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT.					
01...	1310	105	10.5	5	1.4
12...	1650	158	13.5	6	2.2
NOV.					
07...	1220	270	1.0	11	8.0
DEC.					
18...	1430	110	.0	21	6.2
JAN.					
29...	1545	100	.0	4	1.1
FEB.					
23...	1230	100	.0	6	1.6
MAR.					
21...	1145	120	.0	6	1.9
APR.					
24...	1130	780	1.0	114	240
MAY					
30...	1520	1150	13.5	23	71
JUNE					
13...	1430	2290	17.5	45	278
JULY					
24...	0915	1070	14.0	16	46
AUG.					
22...	1130	242	17.0	6	3.9
SEP.					
19...	1530	140	15.0	4	1.5

06710000 SOUTH PLATTE RIVER AT LITTLETON, COLO.

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

DRAINAGE AREA.--3,069 mi^2 (7,949 km^2).

PERIOD OF RECORD.--Water temperatures: April 1970 to September 1973.

EXTREMES, 1972-73.--Water temperatures: Maximum, 24.5°C Aug. 10; minimum, freezing point several days during December and January.
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.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.5	13.0	7.0	5.0	8.5	6.0	2.0	0.5	6.0	2.0	9.0	5.5
2	17.5	13.5	7.0	5.0	9.0	6.0	1.0	0.5	5.5	1.5	7.5	6.0
3	18.0	12.5	7.0	5.5	7.0	5.5	1.5	0.5	---	---	6.5	5.0
4	15.0	13.0	7.0	6.0	6.0	4.0	1.0	0.0	---	---	7.0	4.5
5	14.0	13.0	7.5	6.0	4.5	4.0	1.0	0.5	---	---	8.0	5.0
6	13.0	12.5	8.0	7.0	5.0	4.0	1.0	0.5	---	---	8.0	5.0
7	13.0	11.0	8.0	6.0	3.5	3.5	1.0	0.5	---	---	8.5	5.5
8	13.5	12.5	8.5	6.0	3.0	2.5	1.0	0.5	---	---	8.0	6.0
9	14.0	12.0	8.0	7.5	3.5	2.5	1.0	0.5	---	---	9.0	6.0
10	13.5	12.0	8.0	6.5	4.0	2.5	1.0	0.0	---	---	9.5	7.0
11	13.0	11.5	7.5	6.5	3.5	1.5	1.0	0.0	---	---	10.0	6.5
12	13.0	11.5	7.0	6.0	1.5	1.0	1.0	0.0	6.5	3.0	10.5	7.0
13	13.0	11.5	7.0	6.5	1.5	1.0	3.5	0.5	5.0	3.0	9.0	7.0
14	13.0	11.0	6.5	5.5	2.0	1.0	4.0	1.5	6.0	3.0	7.0	5.5
15	12.0	10.0	6.5	6.0	1.5	0.0	4.5	1.5	6.5	2.0	8.0	5.0
16	13.0	10.5	7.0	6.0	0.5	0.0	4.5	1.5	6.5	2.0	9.0	5.0
17	12.5	11.0	7.0	6.0	0.5	0.0	3.0	2.0	6.0	2.5	10.0	6.5
18	12.5	11.5	7.0	7.0	2.5	0.5	4.5	2.0	8.0	2.5	9.0	7.0
19	12.0	11.5	7.0	6.0	3.0	1.0	5.0	1.5	7.5	2.5	7.5	6.5
20	11.5	11.0	7.0	6.0	3.5	2.0	2.0	1.0	7.0	2.0	10.0	7.0
21	11.5	11.0	7.5	6.0	3.5	1.5	4.0	1.0	8.0	3.5	10.5	8.0
22	11.5	11.0	7.0	4.5	4.0	2.0	3.0	1.0	8.0	3.0	9.5	8.0
23	12.0	10.5	6.5	4.0	4.0	2.0	3.0	0.0	8.0	3.0	9.5	7.5
24	12.0	10.0	7.0	5.0	4.0	1.0	5.0	0.5	8.5	3.5	8.0	6.5
25	12.0	9.0	6.5	5.0	3.5	1.5	5.0	0.5	9.0	4.0	9.5	6.0
26	12.5	8.5	8.0	5.5	4.0	1.0	4.0	1.0	8.5	3.5	11.0	7.5
27	10.5	8.0	8.0	6.0	5.0	2.0	1.5	0.5	8.5	4.5	10.0	8.0
28	10.5	8.0	7.0	5.5	3.0	2.0	3.0	0.5	7.5	5.5	8.0	7.0
29	10.0	7.5	6.5	5.0	2.5	1.0	5.0	0.0	---	---	8.0	6.5
30	8.5	6.5	7.0	5.0	2.5	1.0	6.0	1.5	---	---	8.0	7.0
31	7.0	6.5	---	---	1.5	0.5	4.5	2.5	---	---	10.0	6.5

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

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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

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 (150 m) upstream from bridge on State Highway 22 and 0.2 mi (0.3 km) northwest of Henderson.

DRAINAGE AREA.--4,713 mi^2 (12,207 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1955 to September 1957, June 1962 to September 1973 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)
OCT.												
19...	143	16	77	18	130	11	298	0	244	200	120	7.0
NOV.												
30...	146	17	84	19	140	11	317	0	260	210	120	1.2
DEC.												
17...	116	18	88	19	160	11	299	0	245	220	140	1.8
JAN.												
24...	157	17	82	18	140	13	316	0	259	210	140	.16
FEB.												
14...	193	16	84	19	140	11	297	0	244	230	130	5.0
MAR.												
14...	390	14	76	17	120	9.6	272	0	223	190	100	1.3
APR.												
26...	1400	12	52	8.8	50	4.1	141	0	116	100	38	1.1
MAY												
31...	3820	14	33	8.5	34	2.9	95	0	78	70	27	.58
JUNE												
28...	1240	12	34	7.5	38	3.6	102	0	84	82	27	1.2
JULY												
25...	1070	10	45	8.6	45	4.3	128	0	105	92	33	1.4
AUG.												
16...	599	16	59	13	72	5.7	160	0	131	130	60	2.1
SEP.												
27...	295	17	82	19	120	8.9	239	0	196	190	90	10

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)
OCT.												
19...	7.2	772	298	1.05	270	22	50	3.5	1250	7.2	14.0	30
NOV.												
30...	3.1	772	304	1.05	290	28	50	3.6	1280	7.0	6.5	51
DEC.												
17...	3.8	823	258	1.12	300	53	53	4.0	1350	7.2	8.0	30
JAN.												
24...	6.8	797	338	1.08	280	20	51	3.6	1330	7.2	8.5	32
FEB.												
14...	3.1	808	421	1.10	290	44	50	3.6	1300	7.5	9.0	15
MAR.												
14...	3.9	678	714	.92	260	37	49	3.2	1100	7.5	7.0	14
APR.												
26...	.51	341	1290	.46	170	50	39	1.7	559	7.1	7.0	18
MAY												
31...	.12	239	2470	.33	120	39	38	1.4	401	7.2	12.0	9.6
JUNE												
28...	.59	262	877	.36	120	32	41	1.5	440	7.7	17.5	3.3
JULY												
25...	.42	309	893	.42	150	43	39	1.6	508	7.4	19.0	8.2
AUG.												
16...	1.1	447	723	.61	200	70	43	2.2	730	7.1	24.0	20
SEP.												
27...	2.4	696	554	.95	280	87	47	3.1	1100	7.0	14.0	38

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

LOCATION.--Lat 40°13'30", long 105°21'00", in NE¼SW¼ sec.16, T.3 N., R.71 W., Boulder County, on right bank 0.7 mi (1.1 km) upstream from Longmont Dam and 4 mi (6 km) west of Lyons.

DRAINAGE AREA.--106 mi² (275 km²).

PERIOD OF RECORD.--Chemical analyses: October 1971 to September 1973.

REMARKS.--Records of discharge are estimated values.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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.												
18...	E15	4.6	140	10	3.9	.5	2.2	.3	12	0	10	6.1
NOV.												
22...	E25	5.1	120	10	4.2	.5	1.4	.4	12	0	9	3.7
DEC.												
16...	E50	5.5	190	0	2.9	.7	1.6	.3	13	0	11	4.7
JAN.												
17...	E12	5.7	130	30	3.1	.7	3.8	.5	14	0	11	2.3
FEB.												
06...	E12	5.6	200	40	3.1	.5	1.9	.3	15	0	12	2.6
MAR.												
06...	E10	6.0	120	10	3.0	.5	2.0	.3	15	0	12	5.2
APR.												
28...	E25	10	150	20	5.2	1.1	3.3	.5	18	0	15	9.3
MAY												
14...	E150	9.1	180	10	4.9	.9	2.5	.6	16	0	13	6.0
JUNE												
21...	E125	7.0	160	20	3.5	.6	2.4	.6	14	0	11	4.0
JULY												
13...	E100	6.5	90	10	3.9	.5	1.2	.4	11	0	9	5.0
AUG.												
15...	E50	5.1	80	30	2.2	.5	1.5	.4	11	0	9	3.0
SEP.												
12...	E30	5.5	220	30	2.8	.5	1.4	.3	11	0	9	2.8

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	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)
OCT.												
18...	.5	.1	.06	.01	24	.97	12	2	.3	30	8.2	11.0
NOV.												
22...	1.0	.1	.00	.00	22	1.49	13	3	.2	25	6.9	3.5
DEC.												
16...	1.2	.1	.04	.02	24	5.24	10	0	.2	27	7.2	.0
JAN.												
17...	.8	.4	.04	.01	25	.81	11	0	.5	28	7.3	3.0
FEB.												
06...	1.2	.1	.06	.00	23	.75	10	0	.3	29	6.9	2.0
MAR.												
06...	1.1	.1	.06	.00	26	.70	10	0	.3	28	7.5	2.5
APR.												
28...	1.3	.3	.06	.01	40	2.70	18	3	.3	50	7.6	7.0
MAY												
14...	1.7	.3	.08	.01	34	13.8	16	3	.3	42	7.0	5.0
JUNE												
21...	.7	.1	.03	.01	26	6.78	11	0	.3	27	7.8	9.0
JULY												
13...	1.7	.2	.01	.00	25	6.75	12	3	.2	27	--	10.5
AUG.												
15...	.7	.4	.04	.00	20	2.70	8	0	.2	20	7.7	12.0
SEP.												
12...	.2	.1	.05	.01	19	1.54	9	0	.2	22	7.5	14.0

06723400 SOUTH ST. VRAIN CREEK ABOVE LYONS, COLO.

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

DRAINAGE AREA.--81.4 mi² (210.8 km²).

PERIOD OF RECORD.--Chemical analyses: October 1971 to September 1973.

REMARKS.--Records of discharges are estimated values.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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.												
18...	E5.0	6.5	40	10	7.6	1.4	3.0	.5	32	0	26	7.4
NOV.												
21...	E10	7.9	30	10	8.1	1.7	3.5	.5	33	0	27	8.2
DEC.												
19...	E60	9.8	50	10	7.6	1.8	3.6	.6	33	0	27	8.2
JAN.												
17...	E3.0	9.0	30	10	7.7	1.7	3.8	.5	32	0	26	5.5
FEB.												
06...	E5.0	9.8	50	30	8.3	1.8	4.6	.6	37	0	30	5.7
MAR.												
06...	E5.0	10	50	40	9.6	1.8	4.5	.7	41	0	34	6.3
APR.												
28...	E50	12	100	10	8.8	1.9	4.4	.7	32	0	26	12
MAY												
14...	E150	12	220	10	6.5	1.4	4.0	.8	22	0	18	8.7
JUNE												
21...	E75	7.2	70	0	5.3	.8	2.1	.4	22	0	18	5.6
JULY												
13...	E60	4.5	50	0	3.7	.7	.8	.3	15	0	12	3.6
AUG.												
15...	E30	5.4	40	10	5.6	.9	1.4	.4	24	0	20	4.0
SEP.												
12...	E15	6.0	50	10	8.1	1.3	2.5	.5	28	0	23	5.0

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	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)
OCT.												
18...	.3	.2	.04	.02	43	.58	25	0	.3	62	7.4	10.5
NOV.												
21...	1.4	.2	.10	.00	48	1.30	27	0	.3	69	6.9	1.0
DEC.												
19...	1.2	.2	.28	.01	51	8.26	26	0	.3	70	7.5	.0
JAN.												
17...	1.1	.0	.21	.01	46	.37	26	0	.3	66	7.6	1.0
FEB.												
06...	1.8	.2	.21	.00	52	.70	28	0	.4	76	7.4	.0
MAR.												
06...	1.9	.1	.18	.00	56	.76	31	0	.4	79	7.9	2.5
APR.												
28...	2.8	.3	.21	.01	60	8.10	30	4	.4	81	7.5	8.0
MAY												
14...	1.7	.3	.12	.01	47	19.0	22	4	.4	61	7.4	6.0
JUNE												
21...	.7	.1	.02	.03	35	6.68	17	0	.2	36	7.8	12.0
JULY												
13...	1.0	.1	.03	.00	22	3.56	12	0	.1	26	8.0	12.0
AUG.												
15...	.4	.1	.05	.00	30	2.43	18	0	.1	41	7.6	14.0
SEP.												
12...	.2	.1	.03	.01	38	1.54	26	3	.2	53	7.8	19.0

06724600 LEFT HAND CREEK AT ALTONA, COLO.

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

DRAINAGE AREA.--59.0 mi² (152.8 km²).

PERIOD OF RECORD.--Chemical analyses: October 1971 to September 1973.

REMARKS.--Records of discharges are estimated values.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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.												
18...	E2.0	7.9	30	70	13	3.1	9.4	.9	28	0	23	50
NOV.												
21...	E1.0	11	30	50	23	5.7	12	1.3	45	0	37	64
DEC.												
16...	E2.0	12	40	40	21	5.6	12	1.3	46	0	38	65
JAN.												
23...	E3.0	12	50	50	21	5.4	17	1.6	40	0	33	78
FEB.												
06...	E4.0	12	60	90	24	6.1	21	2.0	41	0	34	81
MAR.												
06...	E3.0	12	90	90	27	7.0	17	1.6	47	0	39	90
APR.												
28...	E30	15	90	140	17	4.8	7.0	1.5	37	0	30	46
MAY												
14...	E170	14	170	100	13	3.8	4.5	1.3	28	0	23	29
JUNE												
21...	E50	7.9	80	40	10	1.7	2.9	.6	22	0	18	13
JULY												
13...	E50	5.2	90	0	5.2	.9	1.4	.4	18	0	15	8.1
AUG.												
15...	E20	4.9	70	20	6.5	1.6	3.1	.6	19	0	16	13
SEP.												
12...	E8.0	6.3	350	20	8.6	1.9	4.1	.7	20	0	16	16

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	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...	.6	2.0	.05	.03	101	.55	45	22	.6	162	7.5	9.0
NOV.												
21...	2.3	2.5	.19	.00	145	.39	81	44	.6	223	6.9	.5
DEC.												
16...	1.8	1.9	.24	.00	144	.78	75	38	.6	228	7.2	.0
JAN.												
23...	2.5	2.9	.23	.06	161	1.30	75	42	.9	241	7.4	.0
FEB.												
06...	3.2	2.5	.23	.00	175	1.87	85	51	1.0	275	7.2	.0
MAR.												
06...	2.6	3.1	.22	.00	185	1.50	96	58	.8	300	7.6	1.0
APR.												
28...	3.1	1.7	.32	.01	116	9.40	62	32	.4	170	7.6	5.5
MAY												
14...	1.7	.9	.20	.01	83	38.1	48	25	.3	124	7.4	5.0
JUNE												
21...	.7	.4	.00	.01	48	6.48	32	14	.2	65	7.6	12.5
JULY												
13...	1.0	.3	.04	.00	32	4.32	17	2	.2	39	7.9	12.0
AUG.												
15...	.7	.5	.06	.00	41	2.21	23	7	.3	59	7.7	12.5
SEP.												
12...	.2	.6	.02	.01	49	1.06	29	13	.3	75	7.6	15.0

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

LOCATION.--Lat 40°15'29", long 104°52'45", in SE¼NW¼ sec.3, T.3 N., R.67 W., Weld County, at gaging station, on right bank 140 ft (43 m) downstream from bridge on county road, 1.3 mi (2.1 km) upstream from mouth, and 4 mi (6 km) northwest of Platteville.

DRAINAGE AREA.--976 mi^2 (2,528 km^2).

PERIOD OF RECORD.--Chemical analyses: February 1955 to August 1956, September 1965 to September 1968, October 1970 to September 1973.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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.												
17...	121	6.6	30	80	110	76	130	5.0	326	0	267	550
NOV.												
28...	131	8.0	40	260	100	76	130	5.8	296	0	243	530
DEC.												
09...	170	10	40	350	91	60	100	5.9	277	0	227	420
JAN.												
16...	232	9.4	50	390	82	57	93	5.9	268	0	220	390
FEB.												
07...	148	9.6	50	180	100	82	130	5.2	319	0	262	570
MAR.												
07...	131	7.5	50	780	130	93	160	11	403	0	331	690
APR.												
21...	133	7.6	50	180	110	81	150	4.4	320	0	262	620
MAY												
14...	1380	10	120	20	35	20	32	2.3	99	0	81	140
JUNE												
20...	307	9.4	50	90	71	48	82	3.1	188	0	154	350
JULY												
11...	244	10	50	30	92	61	110	4.6	245	0	201	450
AUG.												
14...	159	9.7	50	80	110	81	130	4.8	279	0	229	590
SEP.												
11...	247	9.4	930	80	110	81	130	5.4	280	0	230	590

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	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)
OCT.												
17...	35	1.4	3.3	.60	1090	356	590	320	2.3	1570	7.9	14.5
NOV.												
28...	28	.9	1.6	.49	1030	364	560	320	2.4	1470	7.2	2.0
DEC.												
09...	25	1.0	1.6	.30	858	394	470	250	2.0	1270	7.1	.0
JAN.												
16...	23	.8	1.4	.56	801	502	440	220	1.9	1170	7.6	4.0
FEB.												
07...	35	1.1	3.5	.73	1110	444	590	330	2.3	1560	7.8	1.0
MAR.												
07...	38	1.4	.96	.56	1340	474	710	380	2.6	1810	7.5	10.0
APR.												
21...	32	1.2	2.1	.43	1170	420	610	350	2.6	1640	7.7	6.5
MAY												
14...	9.1	.6	.70	.05	301	1120	170	89	1.1	491	7.4	12.0
JUNE												
20...	18	.8	1.7	.08	663	566	380	220	1.8	1020	7.4	13.5
JULY												
11...	24	1.2	2.6	.16	886	584	480	280	2.2	1270	7.9	20.0
AUG.												
14...	31	1.1	3.1	.14	1110	477	610	380	2.3	1540	8.0	18.0
SEP.												
11...	29	.8	2.3	.21	1110	740	610	380	2.3	1510	8.0	16.0

06737500 HORSETOOTH RESERVOIR NEAR FORT COLLINS, COLO.

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

PERIOD OF RECORD.--Chemical analyses: September 1969 to September 1973.

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 1972 TO SEPTEMBER 1973

DATE	RESERVOIR STORAGE (AC-FT)	DEPTH (FT)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT.										
25...	60270	2.0	.04	.00	--	1.6	51	.07	80	12.0
25...	60270	40	.04	.00	--	.28	49	.07	78	12.0
25...	60270	70	.05	.00	--	.07	51	.07	80	11.5
NOV.										
24...	67000	2.0	.11	.00	--	.27	62	.08	81	6.5
24...	67000	30	.07	.01	--	.04	63	.09	78	6.5
24...	67000	70	.07	.00	--	.04	63	.09	78	6.5
MAR.										
30...	113500	2.0	.06	.00	.05	.07	59	.08	71	3.5
30...	113500	50	.05	.01	.04	.06	44	.06	71	3.5
30...	113500	100	.09	.01	.07	.19	52	.07	80	3.5
APR.										
27...	127800	2.0	.07	.00	.04	2.3	55	.07	73	5.0
27...	127800	50	.08	.00	.02	.08	54	.07	71	4.5
27...	127800	100	.13	.00	.04	.04	59	.08	75	4.0
MAY										
30...	140300	2.0	.04	.00	.06	.15	56	.08	71	12.0
30...	140300	50	.04	.00	.02	.03	45	.06	72	8.0
30...	140300	100	.04	.00	.02	.04	46	.06	73	6.5
JULY										
27...	141300	2.0	.03	.00	.06	.33	56	.08	68	20.0
27...	141300	50	.09	.00	.06	.03	59	.08	74	10.5
27...	141300	100	.11	.00	.04	.03	55	.07	73	8.0
SEP.										
05...	105200	2.0	.02	.00	.05	.03	57	.06	80	20.0
05...	105200	28	.02	.00	.06	.04	48	.07	71	18.0
05...	105200	100	.09	.00	.03	.03	43	.06	69	9.5
26...	98240	2.0	.04	.01	.07	.39	46	.06	69	15.5
26...	98240	50	.07	.01	.05	.12	41	.06	65	14.0
26...	98240	100	.12	.01	.03	.11	46	.06	75	9.5

06742500 CARTER LAKE NEAR BERTHOUD, COLO.

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

PERIOD OF RECORD.--Chemical analyses: February 1970 to September 1973.

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 1972 TO SEPTEMBER 1973

DATE	RESERVOIR STORAGE (AC-FT)	DEPTH (FT)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT.										
25...	50640	2.0	.00	.00	--	.23	76	.10	102	11.5
25...	50640	30	.00	.00	--	2.8	80	.10	101	11.0
25...	50640	60	.02	.00	--	.02	94	.13	149	9.5
NOV.										
29...	63350	2.0	.01	.00	--	.45	56	.08	85	5.0
29...	63350	30	.03	.00	--	.10	67	.09	88	5.0
29...	63350	60	.03	.00	--	.05	65	.09	89	5.0
MAR.										
30...	102700	2.0	.02	.00	.03	.07	44	.06	77	3.0
30...	102700	40	.02	.00	.02	.00	40	.05	76	3.0
30...	102700	90	.04	.00	.01	.02	39	.05	77	3.0
APR.										
27...	106100	2.0	.03	.00	.03	1.1	58	.08	81	5.0
27...	106100	50	.01	.00	.01	.06	57	.08	78	4.0
27...	106100	110	.02	.00	.02	.03	54	.07	82	4.0
MAY										
30...	109000	2.0	.00	.02	.02	.03	54	.07	81	11.5
30...	109000	50	.00	.02	.01	.02	57	.08	81	6.0
30...	109000	100	.00	.01	.01	.02	57	.08	80	5.0
JULY										
27...	103900	2.0	.01	.00	.10	.03	55	.07	85	20.0
27...	103900	40	.01	.00	.06	.02	57	.08	79	9.5
27...	103900	100	.04	.00	.02	.02	57	.08	77	6.0
SEP.										
05...	77760	2.0	.00	.00	.03	.04	70	.07	104	20.0
05...	77760	30	.00	.00	--	.03	56	.08	92	18.0
05...	77760	82	.03	.00	.02	.02	53	.07	83	7.0
26...	61030	2.0	.05	.01	.05	.09	51	.07	92	16.0
26...	61030	60	.01	.01	.04	.09	47	.06	83	10.0
26...	61030	90	.04	.01	.04	.08	46	.06	83	7.5

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

LOCATION.--Lat 40°21'00", long 104°47'04", in SW¼SE¼ sec.33, T.5 N., R.66 W., Weld County, at gaging station, on left bank just southeast of gage on Evans Town ditch, 0.7 mi (1.1 km) upstream from highway bridge, 1.6 mi (2.6 km) upstream from mouth, and 4 mi (6 km) west of LaSalle.

DRAINAGE AREA.--828 mi^2 (2,145 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1954 to July 1956, October 1967 to September 1968, October 1970 to September 1973.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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.												
17...	78	9.4	40	160	180	120	170	7.6	372	0	305	940
NOV.												
28...	72	9.4	36	200	190	130	170	7.5	394	0	323	990
DEC.												
09...	47	8.8	40	200	170	100	130	5.6	373	0	306	710
JAN.												
16...	78	10	50	370	180	120	150	12	403	0	331	880
FEB.												
07...	74	10	80	410	180	120	160	11	419	0	344	890
MAR.												
07...	77	9.4	60	280	190	130	170	9.4	425	0	349	1000
APR.												
21...	67	8.7	60	190	190	140	180	7.3	394	0	323	1100
MAY												
14...	631	12	190	50	42	24	33	2.5	96	0	79	180
JUNE												
20...	212	8.5	50	70	69	38	54	2.5	149	0	122	310
JULY												
11...	78	10	210	160	160	110	180	5.9	297	0	244	930
AUG.												
14...	46	11	40	250	170	110	150	4.9	246	0	202	950
SEP.												
11...	124	8.1	100	30	140	87	120	4.4	279	0	229	680

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO, PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	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.												
17...	23	1.1	4.4	.25	1650	347	940	640	2.4	2200	7.5	14.0
NOV.												
28...	24	.9	2.0	.19	1730	336	1000	690	2.3	2220	7.1	2.0
DEC.												
09...	15	.9	1.8	.10	1330	169	840	530	2.0	1910	7.2	.0
JAN.												
16...	21	.9	1.3	.17	1580	333	940	610	2.1	2110	7.7	2.5
FEB.												
07...	21	1.0	1.1	.33	1610	322	940	600	2.3	2110	7.7	.0
MAR.												
07...	24	1.2	1.1	.20	1750	364	1000	660	2.3	2250	7.7	3.0
APR.												
21...	24	1.2	1.5	.18	1850	335	1100	730	2.4	2320	7.9	8.0
MAY												
14...	5.9	.5	.50	.04	350	596	200	130	1.0	550	7.4	12.0
JUNE												
20...	8.4	.6	.91	.05	569	326	330	210	1.3	857	7.2	13.0
JULY												
11...	25	1.2	2.0	.04	1580	333	850	610	2.7	2000	7.7	20.0
AUG.												
14...	21	.8	2.6	.08	1550	193	880	680	2.2	1920	7.9	17.0
SEP.												
11...	18	.7	2.0	.13	1210	405	710	480	2.0	1620	8.2	16.0

06747500 CACHE LA POUDRE RIVER NEAR RUSTIC, COLO.

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

DRAINAGE AREA.--199 mi^2 (515 km^2), at gaging station.

PERIOD OF RECORD.--Chemical analyses: October 1971 to September 1973.

REMARKS.--Records of discharge are estimated values.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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.												
20...	E60	10	90	0	6.1	1.6	3.0	.9	30	0	24	4.4
NOV.												
22...	E35	12	60	0	7.3	2.0	3.3	1.1	37	0	30	5.1
DEC.												
10...	E40	11	50	10	6.9	2.1	3.8	1.0	22	0	18	6.1
JAN.												
17...	E20	13	60	10	8.0	2.2	3.8	1.2	42	0	34	4.3
FEB.												
06...	E20	13	60	0	7.3	2.0	3.6	1.0	40	0	33	4.0
MAR.												
06...	E15	12	80	0	7.6	2.0	4.0	1.3	43	0	35	4.8
APR.												
17...	18	10	60	0	7.2	2.1	3.6	1.0	37	0	30	4.1
MAY												
15...	E250	9.2	180	10	5.7	1.4	2.7	.8	24	0	20	4.9
JUNE												
20...	E800	8.7	120	0	3.6	1.0	2.5	.9	22	0	18	4.9
JULY												
12...	E600	6.8	60	0	3.7	.7	.8	.5	15	0	12	4.2
AUG.												
15...	E400	7.0	70	10	4.9	.9	1.7	.6	24	0	20	3.6
SEP.												
12...	E175	8.5	100	30	4.8	1.3	2.3	.0	27	0	22	3.3

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 DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SURP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT.												
20...	1.6	.3	.00	.00	43	6.97	22	0	.3	56	7.5	6.0
NOV.												
22...	1.5	.2	.04	.00	51	4.82	26	0	.3	68	7.0	.0
DEC.												
10...	1.0	.1	.21	.01	44	4.75	26	8	.3	59	7.3	.0
JAN.												
17...	1.3	.3	.08	.02	55	2.97	29	0	.3	71	7.5	.0
FEB.												
06...	2.2	.2	.13	.00	54	2.92	26	0	.3	71	7.5	.0
MAR.												
06...	1.8	.1	.05	.01	55	2.23	27	0	.3	77	7.9	1.0
APR.												
17...	1.0	.2	.00	.02	48	2.33	27	0	.3	72	7.4	3.0
MAY												
15...	1.6	.0	.04	.00	38	25.6	20	0	.3	47	7.3	3.5
JUNE												
20...	1.2	.4	.04	.00	34	95.0	13	0	.3	33	7.7	7.0
JULY												
12...	.9	.1	.01	.00	25	40.5	12	0	.1	29	7.4	10.0
AUG.												
15...	1.0	.1	.00	.00	32	34.6	16	0	.2	38	7.4	15.0
SEP.												
12...	.6	.2	.00	.02	35	16.5	17	0	.2	43	7.6	10.0

06747500 CACHE LA POUDRE RIVER NEAR RUSTIC, COLO.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
APR. 17...	1	0	0	0	0	0	0	0	0	20	10	150

DATE	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
APR. 17...	<100	2	10	.0	<50	8	6	7	<10	0	20	20

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

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

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

PERIOD OF RECORD.--Chemical analyses: October 1971 to September 1973.
Sediment records: June 1962 to October 1965.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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 SUDIUM (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. 20...	75	9.4	90	0	12	2.9	4.9	1.1	50	0	41	14
NOV. 22...	47	12	40	0	9.6	2.3	4.2	1.0	44	0	36	7.3
DEC. 10...	19	12	50	20	8.2	2.2	4.0	.9	37	0	30	4.7
JAN. 17...	23	12	40	0	9.3	2.7	4.6	1.0	40	0	33	4.1
FEB. 06...	24	12	50	10	15	4.5	6.3	1.2	78	0	64	7.3
MAR. 06...	18	9.4	50	0	13	3.4	5.5	1.0	65	0	52	8.5
APR. 25...	108	9.5	20	0	10	3.9	5.9	1.0	68	0	55	7.2
MAY 15...	1320	14	210	10	12	2.6	4.6	1.3	47	0	39	8.2
JUNE 20...	1380	8.1	100	10	5.6	1.5	2.6	.6	24	0	20	4.0
JULY 12...	1020	7.1	60	0	5.0	1.0	1.5	.6	22	0	18	3.8
AUG. 15...	325	8.1	60	0	6.8	1.5	2.5	.7	30	0	25	5.7
SEP. 12...	159	8.1	80	20	8.8	2.4	4.1	.0	41	0	34	4.7

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SPETEMBER 1973

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SURP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT.												
20...	2.4	.3	.07	.01	72	14.6	42	1	.3	119	7.9	7.0
NOV.												
22...	2.0	.3	.15	.01	61	7.74	33	0	.3	85	7.5	.5
DEC.												
10...	2.3	.2	.13	.00	53	2.72	30	0	.3	70	7.0	.0
JAN.												
17...	1.4	1.0	.10	.00	56	3.48	34	2	.3	78	7.6	.0
FEB.												
06...	3.6	.4	.14	.00	89	5.77	56	0	.4	143	7.7	.0
MAR.												
06...	3.5	.3	.04	.00	76	3.69	46	0	.4	118	8.0	6.0
APR.												
25...	2.6	.4	.00	.01	80	23.3	56	0	.3	135	7.3	7.0
MAY												
15...	2.7	.5	.09	.01	70	250	41	2	.3	99	7.3	8.0
JUNE												
20...	1.6	.4	.03	.00	36	134	20	0	.3	47	7.6	10.0
JULY												
12...	1.0	.1	.00	.00	31	85.5	17	0	.2	33	8.2	14.0
AUG.												
15...	1.1	.2	.01	.00	42	36.9	23	0	.2	58	8.0	18.5
SEP.												
12...	1.0	.3	.03	.04	50	16.8	32	0	.3	69	7.8	12.0

DATE	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
APR.												
25...	4	1	0	0	0	0	0	0	0	30	5	390

DATE	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
APR.												
25...	<100	2	40	.1	<50	1	7	0	<10	1	20	10

06752500 CACHE LA POUDRE RIVER NEAR GREELEY, COLO.

LOCATION.--Lat 40°25'04", long 104°38'22", in NW¼ sec.11, T.5 N., R.65 W., Weld County, at gaging station, on right bank 25 ft (8 m) downstream from highway bridge, 3 mi (4.8 km) east of court house in Greeley, and 3 mi (4.8 km) upstream from mouth.

DRAINAGE AREA.--1,877 mi^2 (4,861 km^2).

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 1973.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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 SUDIUM (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.												
17...	109	14	60	150	170	89	160	7.5	335	0	275	730
NOV.												
28...	101	14	50	140	180	86	150	7.7	341	0	280	680
DEC.												
09...	76	11	80	110	140	65	110	5.3	313	0	257	480
JAN.												
16...	153	15	80	220	140	70	120	8.3	338	0	277	530
FEB.												
07...	131	14	90	200	150	70	92	8.4	331	0	271	520
MAR.												
07...	120	11	60	140	160	77	110	6.2	334	0	274	610
APR.												
21...	78	11	50	140	180	95	130	6.4	341	0	280	780
MAY												
14...	1620	13	160	20	28	10	15	2.1	82	0	67	65
JUNE												
20...	486	10	70	50	60	29	45	3.1	138	0	113	230
JULY												
11...	81	13	210	20	150	73	130	6.8	291	0	239	610
AUG.												
14...	32	13	40	330	180	84	130	6.9	344	0	282	720
SEP.												
11...	139	11	100	240	140	75	110	7.1	296	0	243	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 ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SURP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT.												
17...	100	1.1	7.3	1.1	1470	433	790	520	2.5	2070	7.5	14.0
NOV.												
28...	67	1.2	4.6	1.4	1380	377	800	520	2.3	1780	7.5	4.0
DEC.												
09...	36	.9	3.1	1.1	1020	209	620	360	1.9	1640	7.6	1.5
JAN.												
16...	69	.9	3.1	1.4	1140	471	640	360	2.1	1620	7.8	4.0
FEB.												
07...	23	1.0	.18	1.1	1050	372	660	390	1.6	1500	7.2	1.0
MAR.												
07...	39	1.1	3.9	1.1	1200	389	720	440	1.8	1660	7.6	4.0
APR.												
21...	39	1.1	3.9	1.1	1430	501	840	560	2.0	1900	7.8	9.5
MAY												
14...	5.6	.7	.47	.11	182	797	110	44	.6	304	7.5	13.0
JUNE												
20...	16	.3	1.3	.24	468	614	270	160	1.2	718	7.2	13.0
JULY												
11...	47	.9	3.9	.86	1190	260	680	440	2.2	1620	7.6	22.0
AUG.												
14...	50	.8	4.2	.56	1370	118	800	510	2.0	1750	7.6	19.0
SEP.												
11...	41	.7	3.0	.34	1150	432	660	420	1.9	1560	7.4	17.0

06758500 SOUTH PLATTE RIVER NEAR WELDONA, COLO.

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

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

PERIOD OF RECORD.--Chemical analyses: October 1967 to September 1968, October 1971 to September 1973.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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.												
17...	417	16	50	20	160	72	160	7.2	341	0	280	680
NOV.												
28...	245	17	70	40	170	68	160	7.8	336	0	276	660
DEC.												
09...	350	18	20	60	170	70	170	8.4	375	0	308	650
JAN.												
16...	950	14	50	80	130	54	130	7.6	316	0	259	490
FEB.												
14...	758	15	50	90	140	62	150	7.5	322	0	264	570
MAR.												
07...	772	15	40	80	140	61	150	7.6	315	0	258	550
APR.												
21...	1660	14	60	40	100	42	120	6.1	238	0	195	380
MAY												
15...	11000	14	210	40	52	17	46	4.5	123	0	101	150
JUNE												
26...	565	16	9	20	110	49	110	6.2	242	0	198	430
JULY												
11...	482	15	100	30	140	63	150	7.1	281	0	230	590
AUG.												
14...	346	14	30	50	160	79	170	8.6	295	0	242	760
SEP.												
11...	1240	15	70	10	140	65	150	7.7	297	0	244	580

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	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.												
17...	63	1.2	4.2	.31	1350	1520	700	420	2.6	1910	7.9	12.0
NOV.												
28...	68	1.0	3.9	.43	1340	887	700	430	2.6	1830	7.5	.5
DEC.												
09...	75	1.1	4.2	.48	1370	1300	710	400	2.8	1910	7.4	.0
JAN.												
16...	71	.9	2.9	1.0	1070	2750	550	290	2.4	1560	7.7	.0
FEB.												
14...	74	1.1	5.8	1.3	1210	2480	610	340	2.7	1700	7.6	1.0
MAR.												
07...	75	1.1	4.3	.77	1180	2460	600	340	2.7	1690	7.8	7.5
APR.												
21...	60	1.1	4.4	.66	862	3870	420	230	2.5	1260	7.3	11.5
MAY												
15...	24	1.0	1.2	.08	375	11100	200	99	1.4	598	7.4	16.0
JUNE												
26...	48	1.1	2.4	.24	901	1380	480	280	2.2	1340	7.8	25.0
JULY												
11...	53	1.2	3.0	.22	1170	1520	610	380	2.6	1590	7.9	25.0
AUG.												
14...	73	1.0	2.8	.12	1420	1330	720	480	2.7	1830	8.3	25.0
SEP.												
11...	65	.8	3.9	.33	1190	3990	620	370	2.6	1640	8.3	20.0

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 mi (1.4 km) southeast of Julesburg, 3 mi (5 km) upstream from Colorado-Nebraska State line, and 8 mi (13 km) downstream from Lodgepole Creek.

DRAINAGE AREA.--23,138 mi² (59,927 km²).

PERIOD OF RECORD.--Chemical analyses: October 1945 to September 1973.
Water temperatures: October 1945 to September 1973.

EXTREMES, 1972-73.--Specific conductance: Maximum daily, 3,420 micromhos Dec. 14; minimum daily, 728 micromhos May 26.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
FEB.									
22...	654	20	160	60	170	11	321	0	263
MAR.									
26...	1130	18	180	62	180	11	320	0	262
APR.									
20...	1730	17	150	52	160	9.7	288	0	236
MAY									
26...	9850	14	64	21	58	5.6	155	0	127
JUNE									
25...	2120	18	120	41	120	8.8	234	0	192
JULY									
19...	90	22	180	50	160	13	268	0	220
AUG.									
31...	68	27	180	54	180	16	259	0	212
SEP.									
26...	1160	18	160	61	160	10	301	0	247

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
FEB.									
22...	670	76	.9	2.1	5.8	1.1	1540	1330	2.09
MAR.									
26...	660	81	1.0	2.1	5.3	.85	1440	1350	1.96
APR.									
20...	610	74	1.0	2.3	5.4	1.0	1270	1220	1.73
MAY									
26...	200	29	1.0	1.8	2.6	.60	508	469	.69
JUNE									
25...	440	49	1.0	.85	2.3	.34	983	913	1.34
JULY									
19...	650	72	.9	.65	.63	.08	1340	1280	1.82
AUG.									
31...	750	80	.7	.60	.94	.08	1560	1420	2.12
SEP.									
26...	650	71	1.0	1.6	3.7	.68	1380	1260	1.88

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

EXTREMES, 1972-73.--Continued.
Water temperatures: Maximum, 30.5°C Aug. 14; minimum, freezing point on many days during November to February.
Period of record.--Specific conductance: Maximum daily, 3,270 micromhos Jan. 12, 1971; minimum daily, 348 micromhos Aug. 15, 1968.
Water temperatures (1946-49, 1950-71): 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 additional monthly chemical analyses considered applicable to this site, see record for South Platte River near Julesburg, Colo. (sta. 06764200).

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	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)	TUR-BID-ITY (JTU)
FEB.									
22...	2720	650	380	36	2.9	1860	7.5	5.5	80
MAR.									
26...	4400	700	440	35	3.0	1900	8.3	8.0	70
APR.									
20...	5940	590	350	37	2.9	1700	8.0	10.0	100
MAY									
26...	13500	250	120	33	1.6	738	6.6	17.5	270
JUNE									
25...	5630	470	280	35	2.4	1300	8.0	25.0	50
JULY									
19...	326	660	440	34	2.7	1740	8.0	19.5	4
AUG.									
31...	286	670	460	36	3.0	1840	8.1	23.0	8
SEP.									
26...	4330	650	400	34	2.7	1830	8.2	13.0	70

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED CUBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
FEB.												
22...	17	10	7	<10	1	60	0	80	1	120	10	6400
MAY												
26...	15	9	5	0	0	20	0	<20	1	60	20	18000
JULY												
19...	6.0	5	5	<10	0	10	10	<25	0	50	7	0
SEP.												
26...	9.0	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
FEB.											
22...	20	<100	3	420	10	.2	.0	3	3	100	30
MAY											
26...	100	100	0	1400	0	.1	.0	--	7	90	80
JULY											
19...	40	50	5	350	320	.0	--	2	2	40	20
SEP.											
26...	--	--	--	--	--	--	--	--	--	--	--

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1	2000	1910	2050	2020	1860	1840	1880	1540	958
2	2000	1900	2060	2090	1840	1840	1880	1590	1010
3	2050	1930	2080	2060	1810	1800	1890	1550	1030
4	2080	2050	2230	2150	1740	1860	1900	1470	1000
5	2080	2140	2250	2140	1720	1860	1910	1310	1100
6	2080	2110	2370	2150	1700	1850	1930	1350	1140
7	2040	2090	2250	2220	1760	1870	1870	1320	1140
8	2070	2080	2270	2190	1820	1870	1790	1360	1110
9	2040	2070	2300	2280	1770	1840	1720	1160	1100
10	2070	2060	2380	2290	1910	1860	1770	807	1140
11	2100	2070	2370	2290	1890	1880	1820	801	1230
12	2080	2070	2900	2580	1840	1890	1840	775	1230
13	2100	1920	2480	2230	1800	1890	1800	807	1160
14	2090	2030	3420	2020	1830	1820	1800	845	1050
15	2110	2050	1880	1950	1840	1850	1820	826	950
16	2050	2080	2170	1860	1820	1900	1770	862	862
17	2060	2030	2240	1830	1820	1890	1770	860	837
18	2050	2070	2090	1800	1780	1910	1770	851	822
19	2060	2070	2050	1760	1790	1930	1760	860	801
20	2060	2060	2330	1700	1790	1910	1700	832	792
21	2050	2070	2090	1690	1810	1900	1720	835	886
22	2040	2080	2000	1740	1830	1820	1720	847	969
23	2050	2080	1900	1780	1820	1880	1720	864	1060
24	2070	2080	1880	1790	1870	1790	1590	799	1180
25	2050	2140	1870	1780	1850	1800	1600	760	1280
26	2040	2150	1860	1780	1830	1840	1640	728	1340
27	2040	2140	1830	1820	1830	1860	1640	730	1410
28	1980	2140	1820	1860	1830	1850	1680	753	1450
29	2020	2200	1780	1900	---	1850	1620	818	1480
30	2020	2150	1850	1920	---	1850	1500	840	1450
31	2050	---	1970	1910	---	1830	---	911	---

	JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	---	---	---	1300	1050	1180	1650	1220	1530
	---	---	---	1100	890	960	1630	1140	1330
	---	---	---	1360	1000	1190	1610	1580	1600
	---	---	---	1400	1300	1360	1600	1580	1580
	---	---	---	1380	1270	1320	1590	1550	1570
	---	---	---	1380	1290	1360	1570	1540	1550
	---	---	---	1390	1340	1380	1560	1520	1540
	---	---	---	1410	1330	1380	1570	1520	1540
	---	---	---	1410	1370	1390	1600	1370	1540
	---	---	---	1440	1310	1400	1590	1400	1560
	---	---	---	1440	1410	1420	1500	1160	1400
	1620	1470	1530	1430	1430	1430	1150	1000	1070
	1480	1400	1450	1440	1440	1440	1010	988	996
	1640	1360	1490	1470	1450	1450	1070	1010	1040
	1620	1480	1560	1560	1480	1510	1080	1070	1070
	1590	1490	1530	1540	1450	1490	1200	1070	1130
	1670	1480	1550	1480	1390	1440	1240	1200	1230
	1640	1300	1560	1430	1350	1400	1300	1290	1300
	1550	926	1310	1390	1350	1370	1360	1350	1350
	---	---	---	1420	1370	1390	1410	1400	1400
	---	---	---	1470	1420	1440	1460	1450	1460
	---	---	---	1450	1440	1440	1510	1500	1510
	---	---	---	1450	1450	1450	1560	1550	1560
	---	---	---	1440	1440	1440	1610	1600	1610
	---	---	---	1470	1250	1370	1650	1640	1650
	1050	1040	1040	1630	1460	1570	1700	1640	1690
	1060	1010	1040	1590	1560	1570	1640	1620	1630
	1120	1070	1100	1580	1520	1560	1630	1610	1630
	1140	1100	1110	1540	1400	1500	1630	1620	1620
	1210	1100	1160	1530	1510	1520	1640	1630	1630
	1310	1230	1270	1680	1520	1590	---	---	---

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

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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

	JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	---	---	---	27.5	20.0	23.5	25.0	15.0	20.0
	---	---	---	27.5	19.5	23.0	19.0	14.0	16.0
	---	---	---	29.5	20.0	24.0	22.0	11.0	16.5
	---	---	---	28.5	20.0	23.5	23.5	12.5	17.5
	---	---	---	29.5	21.0	24.5	25.0	12.0	18.0
	---	---	---	30.0	20.5	24.5	24.5	12.5	18.0
	---	---	---	25.5	19.5	21.5	24.5	13.5	17.5
	---	---	---	28.5	16.5	22.0	19.0	15.5	17.0
	---	---	---	28.0	17.0	22.0	23.0	15.0	18.0
	---	---	---	30.0	17.0	23.0	25.5	16.5	19.5
	---	---	---	30.0	18.0	23.5	18.0	14.5	16.5
	29.0	22.0	26.5	29.0	16.0	20.5	14.5	13.0	14.0
	24.0	18.0	20.5	28.0	15.5	20.0	17.0	14.0	15.5
	26.5	16.5	20.5	30.5	15.5	21.5	17.0	9.5	16.5
	28.5	16.0	22.0	29.0	15.5	22.5	17.0	14.5	16.0
	23.5	18.5	21.0	28.0	17.0	21.5	14.5	13.5	14.0
	20.5	18.5	19.5	29.0	16.0	22.0	13.0	13.0	13.0
	18.5	16.0	17.0	28.0	18.0	22.5	14.0	13.0	13.5
	20.0	18.0	19.0	28.5	16.5	22.5	15.5	14.0	14.5
	---	---	---	28.0	17.0	22.0	15.5	14.5	15.5
	---	---	---	26.5	17.0	21.5	15.5	14.5	15.0
	---	---	---	26.5	18.0	22.0	15.0	14.5	14.5
	---	---	---	27.5	17.0	22.0	15.5	14.5	15.0
	---	---	---	26.5	16.5	21.5	15.5	15.0	15.0
	---	---	---	27.5	17.0	21.5	15.0	14.0	14.0
	25.5	22.5	24.5	29.0	17.0	22.5	14.5	13.0	13.5
	25.0	22.0	23.0	27.5	16.5	21.5	14.5	12.5	13.5
	27.0	21.0	24.0	27.0	16.0	21.0	12.0	11.0	11.5
	27.5	22.0	25.0	27.5	17.0	22.0	12.0	11.0	11.5
	24.5	20.5	22.0	27.0	17.0	21.5	13.5	12.0	12.5
	26.0	18.5	22.0	27.0	16.5	21.0	---	---	---

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 mi (7.6 km) downstream from gaging station at Julesburg, at diversion to Western Canal about 1.7 mi (12.7 km) downstream from Colorado-Nebraska State line, and about 6 mi (10 km) northeast of Julesburg.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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-BUNATE (CO3) (MG/L)
OCT.										
31...	92	30	30	20	210	59	190	20	287	0
NOV.										
30...	277	--	--	--	--	--	--	--	327	0
DEC.										
29...	706	--	--	--	--	--	--	--	311	0
JAN.										
31...	815	21	20	10	180	63	180	15	329	0
FEB.										
28...	914	--	--	--	--	--	--	--	322	0
MAR.										
30...	1220	--	--	--	--	--	--	--	318	0
APR.										
27...	2350	17	20	20	150	54	160	12	270	0
MAY										
31...	7120	--	--	--	--	--	--	--	181	0
JUNE										
29...	754	--	--	--	--	--	--	--	232	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOL-VED 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)
OCT.									
31...	235	600	86	.8	1.9	.12	1550	2.11	385
NOV.									
30...	268	--	--	--	2.1	.15	--	--	--
DEC.									
29...	255	--	--	--	3.0	.24	--	--	--
JAN.									
31...	270	660	79	.9	3.0	.50	1370	1.86	3010
FEB.									
28...	264	--	--	--	3.4	.63	--	--	--
MAR.									
30...	261	--	--	--	3.1	.50	--	--	--
APR.									
27...	221	580	74	.9	2.6	.48	1190	1.62	7550
MAY									
31...	148	--	--	--	1.2	.19	--	--	--
JUNE									
29...	190	--	--	--	.61	.06	--	--	--

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BUNATE HARD-NESS (MG/L)	PERCENT SODIUM	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.									
31...	770	530	34	3.0	2070	8.1	4.0	5	280
NOV.									
30...	--	--	--	--	2160	7.8	.0	--	--
DEC.									
29...	--	--	--	--	1830	8.2	2.0	--	--
JAN.									
31...	710	440	35	2.9	1920	8.1	.0	9	300
FEB.									
28...	--	--	--	--	1870	8.0	6.0	--	--
MAR.									
30...	--	--	--	--	1860	8.3	6.0	--	--
APR.									
27...	600	380	36	2.9	1690	8.0	9.0	20	280
MAY									
31...	--	--	--	--	897	7.3	15.0	--	--
JUNE									
29...	--	--	--	--	1470	7.3	21.0	--	--

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

DRAINAGE AREA.--23,200 mi^2 (60,100 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: July 1969 to June 1973 (discontinued).

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIAZINON (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	HEPTACHLOR (UG/L)
OCT. 31...	.00	.0	.00	.00	.00	.00	.00	.00	.00
APR. 27...	.00	.0	.00	.00	.00	.00	.00	.00	.00
JUNE 29...	.00	.0	.00	.00	.00	.01	.00	.00	.00

DATE	HEPTACHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	PARATHION (UG/L)	PCB (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
OCT. 31...	.00	.00	.00	.00	.00	.0	.00	.00	.00
APR. 27...	.00	.00	.00	.00	.00	.0	.00	.00	.00
JUNE 29...	.00	.00	.00	.00	.00	.0	.00	.00	.00

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	DISSOLVED RA-226 (RADON METHOD) (PC/L)	DISSOLVED NATURAL URANIUM (U) (UG/L)
OCT. 31...	86	2.4	32	14	27	12	.16	46
NOV. 30...	99	13	30	17	25	14	.12	57
DEC. 29...	170	6.1	32	16	27	14	.09	54
JAN. 31...	140	7.7	23	22	19	17	.08	52
FEB. 28...	150	13	19	22	16	19	.08	45
MAR. 30...	140	12	21	17	18	13	.08	49
APR. 27...	100	22	23	21	18	18	.10	42
MAY 31...	37	70	14	29	11	23	.09	17
JUNE 29...	71	12	18	19	15	15	.14	36

ARKANSAS RIVER BASIN

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

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

DRAINAGE AREA.--23.6 mi² (61.1 km²).

PERIOD OF RECORD.--Chemical analyses: November 1966 to September 1973.
Water temperatures: May 1967 to September 1973.

EXTREMES, 1972-73.--Water temperatures: Maximum, 15°C Aug. 15, 17, 18, 19, 20; minimum, freezing point on many days during October to May.
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 1972 TO SEPTEMBER 1973

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.												
18...	13	5.1	60	20	11	3.3	1.4	.7	44	0	36	6.1
NOV.												
22...	7.5	6.3	50	0	11	4.1	1.5	.6	49	0	40	8.8
DEC.												
20...	3.9	6.5	60	0	10	3.9	1.8	.6	51	0	42	6.6
JAN.												
24...	3.0	6.9	60	0	11	4.3	1.8	.8	53	0	43	7.7
FEB.												
22...	2.9	7.1	50	10	11	4.1	1.9	.7	54	0	44	7.1
MAR.												
28...	2.6	7.1	50	0	11	4.3	1.8	.6	51	0	42	6.8
APR.												
25...	2.7	6.7	220	10	11	4.0	1.7	.7	49	0	40	4.6
MAY												
23...	45	4.4	50	0	7.3	2.3	.9	.6	31	0	25	5.6
JULY												
06...	96	3.3	40	0	5.3	1.7	.7	1.4	26	0	21	4.0
AUG.												
01...	39	2.9	40	0	7.4	2.6	1.2	.5	38	0	31	5.4
SEP.												
12...	13	4.9	60	0	9.7	3.3	1.6	.6	43	0	35	5.7

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO, PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	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)
OCT.												
18...	.8	.1	.20	.00	51	1.79	41	5	.1	81	7.7	5.0
NOV.												
22...	1.5	.1	.17	.01	59	1.19	44	4	.1	91	7.5	.0
DEC.												
20...	.9	.2	.21	.00	57	.60	41	0	.1	89	7.5	.0
JAN.												
24...	1.1	.1	.10	.00	60	.49	45	2	.1	99	7.6	.5
FEB.												
22...	1.1	.1	.16	.00	61	.48	44	0	.1	100	7.7	.0
MAR.												
28...	1.1	.1	.15	.00	59	.41	45	3	.1	96	7.3	.0
APR.												
25...	.9	.1	.15	.00	55	.40	44	4	.1	95	7.4	3.5
MAY												
23...	.7	.1	.06	.00	38	4.62	28	2	.1	62	8.0	10.5
JULY												
06...	.7	.1	.08	.00	30	7.78	20	0	.1	46	7.0	8.0
AUG.												
01...	.5	.1	.04	.00	39	4.11	29	0	.1	62	8.1	10.0
SEP.												
12...	.7	.1	.07	.00	48	1.68	38	5	.1	79	8.0	7.0

07083000 HALFMOON CREEK NEAR MALTA, COLO.--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	ALDRIN (UG/L)	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE (UG/L)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT (UG/L)
OCT. 18...	3.0	.00	.0	.0	0	.00	.0	.00	.0	.00

DATE	DDT IN BOTTOM DEPOSITS (UG/KG)	DIAZINON (UG/L)	DIELDRIN (UG/L)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE (UG/L)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)
OCT. 18...	.0	.00	.00	.0	.00	.00	.0	.00	.0

DATE	LINDANE (UG/L)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	PARATHION (UG/L)	PCB (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
OCT. 18...	.00	.0	.00	.00	.00	.0	.00	.00	.00

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	DISSOLVED RA-226 (PLANCHET COUNT) (PC/L)	DISSOLVED URANIUM (U) (UG/L)
OCT. 18...	<.5	<.4	1.2	<.4	1.0	<.4	<.1	.07

07083000 HALFMOON CREEK NEAR MALTA, COLO.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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

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

07096000 ARKANSAS RIVER AT CANON CITY, COLO.

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

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

PERIOD OF RECORD.--Chemical analyses: November 1963 to September 1965, January 1966 to September 1968, October 1970 to September 1973.
Sediment records: October 1970 to September 1973.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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.												
31...	296	12	40	10	37	8.7	12	2.0	141	0	116	33
NOV.												
28...	332	13	30	20	36	9.1	12	1.8	132	0	108	33
DEC.												
29...	300	14	20	0	37	9.2	13	1.8	145	0	119	34
JAN.												
29...	253	14	30	0	38	9.6	14	2.0	156	0	128	35
MAR.												
09...	272	13	20	0	40	9.8	14	1.9	163	0	134	32
APR.												
04...	236	13	30	40	40	11	15	2.5	168	0	138	33
MAY												
10...	356	14	30	20	43	12	16	2.4	181	0	148	34
JUNE												
19...	1830	10	80	10	25	6.4	6.5	1.4	100	0	82	20
JULY												
19...	2360	10	40	10	29	6.9	6.4	1.4	114	0	94	19
AUG.												
29...	1400	7.6	0	16	26	4.0	5.6	1.0	68	0	56	5.6

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	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)
OCT.												
31...	7.3	.6	.17	.01	183	146	130	13	.5	306	7.1	1.0
NOV.												
28...	7.0	.6	.23	.02	179	160	130	19	.5	278	8.0	.0
DEC.												
29...	8.0	.6	.31	.02	190	154	130	11	.5	307	8.0	.5
JAN.												
29...	8.1	.8	.15	.04	199	136	130	6	.5	324	8.2	.0
MAR.												
09...	9.0	.6	.15	.02	201	148	140	7	.5	342	8.1	3.0
APR.												
04...	9.3	.5	.04	.01	207	132	150	7	.5	350	8.1	5.0
MAY												
10...	8.5	.4	.04	.02	220	211	160	8	.6	361	8.2	15.5
JUNE												
19...	2.9	.5	.10	.03	123	608	89	7	.3	206	8.2	15.0
JULY												
19...	3.0	.2	.08	.03	133	848	100	7	.3	214	8.2	16.0
AUG.												
29...	2.6	.3	.09	.01	87	329	81	26	.3	159	8.0	15.5

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

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
OCT.							
31...	1140	296	1.0	23	18	--	--
NOV.							
10...	1240	512	5.0	12	10	--	--
28...	1340	332	.0	65	58	--	--
DEC.							
15...	1415	340	.0	16	15	--	--
29...	1100	300	.5	33	27	--	--
JAN.							
12...	1030	284	.5	15	12	--	--
29...	1100	253	.0	28	19	--	--
FEB.							
15...	1305	246	.5	57	38	--	--
MAR.							
09...	1240	272	3.0	29	21	--	--
APR.							
04...	1140	236	5.0	21	13	--	--
17...	1100	425	9.0	158	181	--	--
MAY							
10...	1300	356	15.5	1380	1330	3	4
JUNE							
01...	1605	782	--	155	327	--	--
19...	1600	1830	15.0	227	1120	10	13
JULY							
19...	1020	2560	16.0	579	2420	30	35
AUG.							
10...	0945	882	16.0	28	67	--	--
29...	1330	1400	15.5	75	284	--	--
SEP.							
21...	1145	260	14.5	16	11	--	--

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.						
31...	--	--	--	--	--	--
NOV.						
10...	--	--	--	--	--	--
28...	--	19	43	98	100	--
DEC.						
15...	--	--	--	--	--	--
29...	--	--	--	--	--	--
JAN.						
12...	--	--	--	--	--	--
29...	--	--	--	--	--	--
FEB.						
15...	--	--	--	--	--	--
MAR.						
09...	--	--	--	--	--	--
APR.						
04...	--	--	--	--	--	--
17...	--	--	--	--	--	--
MAY						
10...	--	10	--	14	55	100
JUNE						
01...	--	--	--	--	--	--
19...	--	35	52	78	96	100
JULY						
19...	48	57	66	80	96	100
AUG.						
10...	--	--	--	--	--	--
29...	--	33	43	59	88	100
SEP.						
21...	--	--	--	--	--	--

07099200 ARKANSAS RIVER NEAR PORTLAND, COLO.

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

DRAINAGE AREA.--4,280 mi² (11,085 km²).

PERIOD OF RECORD.--Chemical analyses: October 1964 to September 1973.
Sediment records: October 1964 to September 1973.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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.												
31...	381	12	30	30	62	20	28	2.5	174	0	143	140
NOV.												
29...	340	13	20	40	65	20	29	2.7	175	0	144	150
DEC.												
29...	276	13	20	50	74	24	33	2.7	183	0	150	180
JAN.												
29...	208	13	20	40	76	25	34	2.9	175	8	157	200
MAR.												
09...	248	11	20	50	69	22	32	2.7	182	0	149	170
APR.												
04...	226	10	30	50	65	23	32	3.4	140	18	145	170
MAY												
11...	1120	14	20	40	44	12	18	2.8	120	0	98	89
JUNE												
12...	4820	8.2	50	20	23	5.4	6.1	1.8	71	0	58	40
JULY												
20...	2940	9.5	50	10	30	7.2	8.2	1.6	96	0	79	37
SEP.												
21...	253	13	10	50	77	23	31	4.1	180	7	159	180

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SUDIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT.												
31...	8.7	.6	.13	.02	360	370	240	94	.8	559	7.6	3.0
NOV.												
29...	8.5	.8	.41	.05	377	346	240	100	.8	572	7.6	1.0
DEC.												
29...	11	.6	.50	.05	431	321	280	130	.9	654	8.2	2.5
JAN.												
29...	13	.8	.29	.07	460	256	290	140	.9	694	8.5	3.5
MAR.												
09...	11	.8	.27	.03	410	275	260	110	.9	643	8.2	5.0
APR.												
04...	13	.6	.04	.04	404	247	260	110	.9	621	8.8	11.0
MAY												
11...	6.6	.9	.31	.03	248	751	160	61	.6	403	7.7	15.0
JUNE												
12...	3.0	1.0	.04	.01	124	1610	80	21	.3	200	8.2	17.0
JULY												
20...	3.1	.3	.10	.02	145	1150	100	26	.3	235	7.9	19.5
SEP.												
21...	11	.7	.18	.06	437	299	290	130	.8	650	8.4	18.0

07099200 ARKANSAS RIVER NEAR PORTLAND, COLO.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
OCT.							
31...	1425	381	3.0	37	38	--	--
NOV.							
10...	1715	381	17.0	64	66	--	--
29...	1530	340	1.0	49	45	--	--
DEC.							
15...	1530	221	--	18	11	--	--
29...	1540	276	2.5	45	34	--	--
JAN.							
12...	1340	240	5.0	68	44	--	--
29...	1500	208	3.5	28	16	--	--
FEB.							
15...	1510	202	5.0	15	8.2	--	--
MAR.							
09...	1620	248	5.0	52	35	--	--
APR.							
04...	1550	226	11.0	9	5.5	--	--
MAY							
11...	1500	1120	15.0	2800	8470	29	38
JUNE							
01...	1030	1060	15.0	716	2050	7	9
12...	1740	4820	17.0	2070	26900	15	18
JULY							
20...	1500	2940	19.5	363	2880	12	14
AUG.							
10...	1315	1000	--	1210	3270	--	--
30...	1640	1380	--	136	507	--	--
SEP.							
21...	1440	253	18.0	20	14	--	--

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	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM
OCT.							
31...	--	--	--	--	--	--	--
NOV.							
10...	--	28	28	40	87	100	--
29...	--	--	--	--	--	--	--
DEC.							
15...	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--
JAN.							
12...	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--
FEB.							
15...	--	--	--	--	--	--	--
MAR.							
09...	--	--	--	--	--	--	--
APR.							
04...	--	--	--	--	--	--	--
MAY							
11...	59	81	93	99	100	--	--
JUNE							
01...	--	23	28	42	60	100	--
12...	29	51	66	82	94	100	--
JULY							
20...	21	38	51	71	97	100	--
AUG.							
10...	--	3	3	10	66	86	100
30...	--	37	50	74	100	--	--
SEP.							
21...	--	--	--	--	--	--	--

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

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

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

PERIOD OF RECORD.--Chemical analyses: August 1942 to August 1943, October 1945 to July 1949, January 1951 to September 1973.
Water temperatures: January 1951 to September 1973.

EXTREMES, 1972-73.--Specific conductance: Maximum daily, 4,200 micromhos Jan. 5; minimum daily, 750 micromhos July 2.
Water temperatures: Maximum, 25°C July 5, 6, 9; freezing point Nov. 24, 28, 29, 30, Dec. 1.
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 1972 TO SEPTEMBER 1973

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.												
10...	30	15	30	320	330	150	440	7.1	294	0	241	2000
NOV.												
01...	3.0	14	30	1200	340	170	480	6.4	361	0	296	2100
DEC.												
05...	2.0	11	50	1900	340	170	330	7.4	387	0	317	1900
JAN.												
03...	2.0	13	30	1900	350	180	480	7.5	450	0	369	2000
FEB.												
01...	1.8	13	--	--	350	180	490	7.2	431	0	354	2100
MAR.												
07...	1.8	11	70	2100	340	180	510	8.1	420	0	344	2200
APR.												
11...	2.6	12	20	2000	330	190	460	6.6	430	0	353	2000
MAY												
09...	310	9.0	30	190	240	100	260	6.9	236	0	194	1300
JUNE												
13...	854	8.0	30	90	210	89	220	7.0	230	0	189	1100
JULY												
11...	534	11	30	80	99	36	82	5.0	163	0	134	400
AUG.												
08...	404	14	20	70	150	58	140	6.7	204	0	167	700
SEP.												
19...	71	14	20	30	250	95	250	8.0	336	0	276	1100

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	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.												
10...	120	1.3	.72	.02	3210	260	1400	1200	5.0	3905	7.9	18.0
NOV.												
01...	130	1.1	1.2	.01	3430	27.8	1500	1300	5.3	4120	8.1	5.0
DEC.												
05...	60	.8	.53	.01	3010	16.3	1500	1200	3.7	4390	7.3	1.0
JAN.												
03...	140	1.0	1.2	.04	3400	18.4	1600	1200	5.2	4006	7.8	3.0
FEB.												
01...	140	--	.92	.02	3500	17.0	1600	1300	5.3	4120	7.8	7.0
MAR.												
07...	140	1.1	.57	.01	3600	17.5	1600	1200	5.6	4080	7.9	14.5
APR.												
11...	140	.9	.57	.01	3360	23.6	1600	1300	5.0	3860	7.9	10.0
MAY												
09...	72	.9	.42	.01	2110	1770	1000	820	3.6	2540	7.8	15.0
JUNE												
13...	63	1.0	.22	.00	1810	4170	890	700	3.2	2330	7.8	22.0
JULY												
11...	27	.8	1.5	.01	748	1080	400	260	1.8	1060	7.9	26.0
AUG.												
08...	45	1.0	2.2	.02	1230	1340	610	450	2.5	1560	7.6	26.0
SEP.												
19...	80	1.0	2.6	.04	1980	380	1000	740	3.4	2430	7.9	21.0

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3400	3500	2800	---	3250	3400	3200	3100	1800	800	1050	2800
2	3450	3500	---	3500	3500	3400	3200	3100	1800	750	1000	2800
3	3250	3550	---	3000	---	---	3200	3200	1850	800	1100	2650
4	3250	3550	3000	3000	---	---	3500	3000	1850	800	1350	2600
5	3500	---	2900	4200	3250	3500	3400	3100	1800	850	1650	2200
6	3400	3750	900	---	3250	3500	3300	3100	1830	1150	1500	2650
7	3300	3500	1200	---	3500	3000	3400	3000	1850	1050	1400	2800
8	3400	3500	1100	3600	3500	3100	3250	1830	1830	1000	1400	2800
9	3300	3500	---	3500	3500	3100	3200	2000	1830	900	1250	3000
10	3400	3800	---	4000	---	---	3250	2000	1900	875	1180	2800
11	3400	---	4100	4000	---	---	3400	2000	1900	850	1100	2900
12	3450	---	4100	4000	3500	3400	3100	2000	1900	825	1200	2900
13	3400	---	4100	---	3500	3400	3250	2000	1900	850	1200	1850
14	3250	---	4000	---	3600	3400	3450	1950	1950	825	1280	1850
15	3200	---	4100	4000	3500	3400	3200	2000	1900	950	1330	2200
16	3400	3200	---	4000	3500	3400	3400	2000	1900	---	1550	2600
17	3400	3200	---	4000	---	---	3250	1900	1900	1000	1700	2400
18	3400	---	4000	4000	---	---	3400	2000	1850	1000	1900	1800
19	3250	---	4100	4000	---	3250	3500	1950	1900	950	2000	2000
20	3300	3250	4000	---	3900	3250	3500	1950	1700	1000	2100	2900
21	3400	3250	4000	---	3900	3300	3400	1950	1700	1130	2100	2850
22	3400	3000	3900	4000	3900	3100	3400	1900	1750	900	2300	2600
23	3400	---	---	4000	3900	3100	3300	1850	1750	825	2600	2900
24	3400	3200	---	4000	---	---	3250	1950	1900	825	2600	2900
25	3400	---	---	---	---	2900	3400	1900	2000	1000	2800	2900
26	3400	---	4000	4000	3500	3050	3000	1800	1700	1100	2800	2850
27	3400	3000	4000	---	3300	3200	3250	1900	1300	1500	2800	2400
28	3350	2800	---	---	3400	3000	3300	1800	1200	1350	2800	1500
29	3350	2800	4000	4000	---	2950	3300	1700	1230	1300	2700	1250
30	3300	2800	---	4000	---	2650	3400	1750	1050	1180	2800	1700
31	3400	---	---	4000	---	3150	---	1700	---	1150	2800	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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

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 mi (2 km) south of Coolidge and 1.9 mi (3.1 km) downstream from Colorado-Kansas State line.

DRAINAGE AREA.--25,410 mi² (65,812 km²), of which 1,708 mi² (4,424 km²) is probably noncontributing.

PERIOD OF RECORD.--Chemical analyses: November 1963 to September 1968, October 1969 to September 1973 (discontinued).
Water temperatures: October 1964 to September 1968.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT.											
11...	44	20	380	180	500	11	281	0	230	2300	80
NOV.											
02...	42	18	380	170	570	11	314	0	258	2300	160
DEC.											
06...	23	18	440	170	610	5.3	297	0	244	2500	150
JAN.											
04...	87	19	430	200	610	9.7	329	0	270	2400	180
FEB.											
01...	130	16	350	170	570	9.1	307	0	252	2200	150
MAR.											
07...	95	15	370	180	590	12	303	0	249	2400	160
APR.											
10...	200	14	350	170	480	8.2	294	0	241	2200	140
MAY											
10...	180	13	390	180	560	11	311	0	255	2400	160
JUNE											
13...	390	11	250	110	290	8.4	246	0	202	1400	82
JULY											
11...	101	17	330	150	470	9.7	283	0	232	2000	130
AUG.											
08...	160	17	310	130	430	8.1	262	0	215	1900	110
SEP.											
19...	19	17	400	180	590	13	299	0	245	2300	170

DATE	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT.										
11...	2.8	.04	3620	430	1700	1500	5.3	4390	7.7	13.0
NOV.										
02...	2.6	.02	3780	429	1600	1400	6.1	4500	8.2	1.0
DEC.										
06...	2.3	.01	4050	252	1800	1600	6.3	5430	7.5	.0
JAN.										
04...	3.1	.02	4220	991	1900	1600	6.1	4610	8.0	.0
FEB.										
01...	2.8	.03	3630	1270	1600	1500	6.3	4220	7.9	.0
MAR.										
07...	2.7	.03	3890	998	1700	1400	6.3	4370	8.1	12.0
APR.										
10...	2.5	.03	3520	1900	1600	1300	5.3	3790	8.1	14.0
MAY										
10...	2.0	.04	3880	1890	1700	1500	5.9	4260	7.8	13.0
JUNE										
13...	.98	.01	2280	2400	1100	880	3.8	2750	8.2	21.0
JULY										
11...	2.8	.03	3260	889	1400	1200	5.4	3690	7.8	19.0
AUG.										
08...	2.6	.03	3050	1320	1300	1100	5.2	3290	7.9	21.0
SEP.										
19...	2.3	.05	3830	196	1700	1500	6.2	4440	7.9	17.0

RIO GRANDE BASIN

08251500 RIO GRANDE NEAR LOBATOS, COLO.

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

DRAINAGE AREA.--7,700 mi² (19,900 km²) approximately (includes 2,940 mi² or 7,615 km² in closed basin in northern part of San Luis Valley, Colo.).

PERIOD OF RECORD.--Chemical analyses: September 1969 to September 1973.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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.												
25...	198	23	--	--	24	4.7	19	3.7	96	0	79	41
NOV.												
24...	280	28	--	--	27	5.0	17	3.0	103	0	84	50
DEC.												
21...	280	32	50	0	24	4.4	15	3.1	97	0	80	27
JAN.												
25...	275	31	60	0	21	3.9	11	3.0	85	0	70	22
FEB.												
23...	295	29	50	10	19	3.6	11	2.6	88	0	72	20
MAR.												
30...	587	25	50	40	35	5.6	19	3.3	102	0	84	46
APR.												
27...	514	22	90	130	26	5.0	16	3.3	89	0	73	47
MAY												
24...	3140	21	20	60	20	3.5	11	3.2	64	0	53	33
JULY												
07...	1330	20	100	100	30	5.8	20	1.7	88	0	72	51
AUG.												
02...	776	18	40	100	26	5.4	19	3.1	90	0	73	51
SEP.												
13...	355	24	80	30	26	5.1	17	3.3	91	0	75	50

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	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.												
25...	5.8	--	.01	.07	164	90.4	79	1	.9	254	7.9	13.0
NOV.												
24...	4.5	--	.01	.04	185	140	86	4	.8	249	7.8	.0
DEC.												
21...	4.1	.3	.17	.04	157	119	78	0	.6	216	7.7	.0
JAN.												
25...	3.2	.3	.20	.07	138	102	68	0	.6	191	7.3	.0
FEB.												
23...	3.5	.3	.18	.06	133	106	62	0	.6	190	7.4	.0
MAR.												
30...	7.0	.3	.10	.03	192	304	110	27	.8	289	7.6	.5
APR.												
27...	5.9	.2	.03	.06	170	236	86	13	.8	250	8.0	14.0
MAY												
24...	4.3	.3	.04	.07	128	1090	64	12	.6	189	7.8	15.0
JULY												
07...	5.2	.3	.00	.05	178	640	99	27	.9	286	7.3	19.5
AUG.												
02...	5.3	.3	.00	.04	173	362	87	13	.9	275	7.8	18.0
SEP.												
13...	4.8	.2	.02	.08	176	169	86	11	.8	259	8.2	15.0

08251500 RIO GRANDE NEAR LOBATOS, COLO.--Continued

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED NATURAL URANIUM (U) (UG/L)	DIS-SOLVED URANIUM (U) (UG/L)
OCT.									
25...	<2.0	1.3	4.8	1.6	4.2	1.4	.06	.8	--
NOV.									
24...	3.9	.8	4.6	.9	3.9	.8	.03	.9	--
MAR.									
30...	4.9	1.2	4.3	1.2	3.5	1.0	.02	1.2	--
APR.									
27...	2.3	5.3	6.3	1.4	5.0	1.2	.03	.6	--
MAY									
24...	<2.0	3.7	4.1	5.6	3.3	3.1	.04	--	.18
JULY									
07...	<2.5	1.7	5.4	1.8	4.4	1.5	.03	--	.49
AUG.									
02...	<3.0	1.3	4.3	1.2	3.4	1.0	.03	.6	--

PART 9. COLORADO RIVER BASIN

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 mi (2 km) downstream from gaging station and 3.5 mi (5.6 km) upstream from Beaver Creek.

DRAINAGE AREA.--825 mi² (2,137 km²), at gaging station.

PERIOD OF RECORD.--Chemical analyses: April 1947 to September 1973.
Water temperatures: April 1949 to September 1973.

EXTREMES, 1972-73.--Specific conductance: Maximum daily, 235 micromhos Apr. 26; minimum daily, 65 micromhos June 13.
Water temperatures: Maximum, 23°C Aug. 23; minimum, freezing point on many days during November to March.
Period of record.--Specific conductance (1947-71, 1972-73): Maximum daily, 263 micromhos Mar. 5, 1967; minimum daily, 48 micromhos June 27, 1947.
Water temperatures (1949-71, 1972-73): Maximum, 28°C July 17, 1971; minimum, freezing point on many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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.												
04...	85	14	180	16	17	3.0	7.0	1.4	76	0	62	9.6
NOV.												
13...	92	13	140	0	18	3.0	6.1	1.1	80	0	65	6.5
DEC.												
04...	79	13	100	0	17	3.0	6.0	1.4	76	0	62	5.9
JAN.												
08...	74	14	130	20	18	3.2	8.7	1.5	73	0	60	11
FEB.												
21...	72	13	170	10	15	3.0	7.0	1.3	72	0	59	9.1
MAR.												
26...	89	12	280	20	16	2.9	6.6	1.4	73	0	60	6.3
APR.												
16...	144	11	320	50	18	3.4	7.3	3.1	83	0	68	7.5
MAY												
21...	1320	12	310	30	12	2.3	4.5	1.7	49	0	40	4.9
JUNE												
13...	1180	9.7	280	30	9.4	1.5	3.7	1.4	36	0	30	4.0
JULY												
18...	1020	9.1	120	20	13	2.3	3.9	.9	57	0	47	4.6
AUG.												
09...	242	13	110	20	18	2.9	6.2	1.0	85	0	70	4.0
SEP.												
19...	77	12	80	0	17	2.9	6.2	1.5	76	3	67	4.6

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	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)
OCT.												
04...	1.8	.3	.01	.02	92	21.1	55	0	.4	155	7.9	9.0
NOV.												
13...	1.5	.2	.00	.02	89	22.1	57	0	.4	131	7.8	.0
DEC.												
04...	1.5	.2	.07	.02	88	18.8	55	0	.5	133	7.1	.0
JAN.												
08...	3.2	.2	.19	.14	97	19.4	58	0	.5	131	7.3	.0
FEB.												
21...	2.9	.3	.19	.04	88	17.1	50	0	.4	132	7.3	.0
MAR.												
26...	1.5	.2	.13	.03	84	20.2	52	0	.4	137	8.0	.0
APR.												
16...	2.6	.2	.21	.05	95	36.9	59	0	.4	155	8.3	6.0
MAY												
21...	1.3	.0	.04	.01	63	225	39	0	.3	92	7.2	8.0
JUNE												
13...	.1	.2	.15	.00	49	156	30	0	.3	66	7.2	8.5
JULY												
18...	1.2	.0	.02	.01	63	174	42	0	.3	92	7.8	13.0
AUG.												
09...	.7	.5	.01	.01	88	57.5	57	0	.4	137	7.9	17.0
SEP.												
19...	1.3	.3	.02	.03	87	18.1	54	0	.4	136	8.7	16.0

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	140	140	---	145	150	145	140	155	95	80	150	140
2	140	140	---	140	145	140	140	140	90	80	150	140
3	140	145	---	140	140	130	140	145	90	80	150	140
4	140	140	---	145	140	140	140	150	110	80	150	150
5	135	140	---	140	140	140	140	150	120	85	150	140
6	140	140	---	140	145	140	140	155	105	85	140	150
7	140	140	---	140	140	140	140	145	90	85	140	140
8	140	140	---	140	140	140	135	155	85	95	150	150
9	140	140	---	130	140	140	130	135	85	90	150	150
10	140	140	---	140	130	145	125	115	85	---	150	130
11	140	140	---	140	140	150	140	135	75	105	145	130
12	135	145	---	140	145	140	130	120	70	120	140	150
13	140	140	---	140	145	140	140	105	65	140	---	150
14	140	125	---	140	140	140	140	100	75	140	150	150
15	140	140	---	140	140	140	140	105	80	100	145	160
16	140	140	---	140	140	140	140	115	80	120	140	140
17	140	140	---	140	140	135	135	115	85	100	140	140
18	140	140	---	130	140	140	140	110	85	100	140	130
19	140	140	---	140	140	140	140	105	80	110	140	140
20	130	140	---	145	130	140	140	95	85	105	140	160
21	140	140	---	140	140	140	130	100	90	100	140	145
22	140	130	---	150	140	140	140	105	100	105	145	155
23	135	140	---	140	140	140	130	95	100	120	140	---
24	140	140	---	140	140	140	140	85	100	140	140	150
25	140	140	---	140	140	140	205	90	100	145	140	160
26	125	140	---	130	140	140	235	85	85	150	140	170
27	140	130	---	140	140	145	170	85	90	140	140	145
28	140	135	---	140	140	140	170	95	95	155	140	130
29	140	140	---	140	---	140	160	95	85	145	---	---
30	140	140	---	130	---	145	150	100	85	145	---	150
31	140	---	---	140	---	140	---	---	---	155	140	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.0	2.0	---	3.0	0.0	2.0	2.0	7.0	10.0	16.0	17.0	17.0
2	13.0	5.0	---	3.0	0.0	1.0	2.0	10.0	10.0	17.0	17.0	12.0
3	14.0	4.0	---	4.0	0.0	2.0	2.0	12.0	9.0	16.5	17.0	16.0
4	13.0	5.0	---	3.0	0.0	2.0	1.0	11.0	11.0	16.0	16.0	18.0
5	12.0	5.0	---	3.0	0.0	2.0	1.0	12.0	11.0	17.0	16.0	20.0
6	13.0	6.0	---	3.0	0.0	1.0	3.0	10.0	14.0	17.0	17.0	19.0
7	13.0	5.0	---	2.0	0.0	2.0	3.0	9.0	15.0	17.0	17.0	18.0
8	12.0	6.0	---	2.0	0.0	1.0	4.0	9.0	15.0	15.0	22.0	17.0
9	13.0	6.0	---	3.0	0.0	1.0	5.0	9.0	16.0	16.0	22.0	17.0
10	15.0	5.0	---	3.0	0.0	1.0	5.0	10.0	15.0	---	17.0	15.0
11	12.0	5.0	---	2.0	0.0	1.0	5.0	12.0	15.0	20.0	18.0	15.0
12	11.0	6.0	---	2.0	0.0	0.0	5.0	11.0	15.0	17.0	20.0	16.0
13	11.0	3.0	---	2.0	0.0	1.0	5.0	12.0	11.0	16.0	---	18.0
14	11.0	5.0	---	2.0	0.0	1.0	5.0	11.0	14.0	15.0	21.0	15.5
15	12.0	5.0	---	2.0	0.0	1.0	4.0	12.0	15.0	16.0	21.0	15.0
16	12.0	6.0	---	2.0	0.0	1.0	5.0	11.5	11.0	16.0	20.0	12.0
17	11.0	5.0	---	3.0	0.0	0.0	5.0	12.0	11.0	17.0	20.0	15.0
18	12.0	4.0	---	2.0	1.0	2.0	6.0	11.0	11.0	14.0	20.0	15.0
19	12.0	5.0	---	1.0	0.0	1.0	5.0	10.0	11.0	15.0	20.0	17.0
20	10.0	5.0	---	2.0	1.0	1.0	5.0	11.0	14.0	15.0	20.0	17.0
21	10.0	5.0	---	2.0	0.0	1.0	4.0	10.0	12.0	17.0	20.0	15.0
22	10.0	4.0	---	3.0	0.0	1.0	5.0	10.0	15.0	15.0	19.0	17.0
23	8.0	4.0	---	0.0	0.0	2.0	5.0	11.0	16.0	16.0	23.0	---
24	8.0	4.0	---	0.0	0.0	1.0	5.0	10.0	14.0	16.0	20.0	12.0
25	7.0	3.0	---	2.0	0.0	1.0	9.0	10.0	17.0	19.0	20.0	9.0
26	5.0	3.0	---	1.0	0.0	2.0	9.0	9.0	16.5	20.0	20.0	12.0
27	5.0	2.0	---	2.0	0.0	2.0	9.0	9.0	18.0	14.0	20.0	10.5
28	5.0	0.0	---	0.0	2.0	1.0	9.0	12.0	15.0	18.0	22.0	8.0
29	6.0	0.0	---	2.0	---	2.0	10.0	10.0	14.0	17.0	---	---
30	6.0	0.0	---	0.0	---	2.0	9.0	12.0	17.0	17.0	---	12.0
31	5.0	---	---	0.0	---	1.0	---	---	---	15.0	15.0	---

09069000 EAGLE RIVER AT GYPSUM, COLO.

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

DRAINAGE AREA.--944 mi² (2,445 km²), at gaging station.

PERIOD OF RECORD.--Chemical analyses: April 1947 to September 1973.
Water temperatures: April 1949 to September 1973.

EXTREMES, 1972-73.--Specific conductance: Maximum daily, 910 micromhos on several days during November to March; minimum daily, 115 micromhos June 14, 26, 27, 28, 29.
Water temperatures: Maximum, 20.5°C Aug. 16, 22; minimum, freezing point on many days during November.
Period of record.--Specific conductance: Maximum daily, 1,850 micromhos Aug. 6, 1949; minimum daily, 115 micromhos June 14, 26, 27, 28, 29, 1973.
Water temperatures (1949-73): 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 1972 TO SEPTEMBER 1973

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.												
02...	270	11	30	24	150	27	26	2.7	205	0	168	330
NOV.												
07...	290	9.9	30	50	130	24	35	2.9	185	0	152	300
DEC.												
04...	221	10	50	70	140	25	38	2.9	188	0	154	320
JAN.												
15...	175	9.6	130	20	100	21	46	2.9	173	0	142	220
FEB.												
05...	188	10	30	50	100	21	45	2.5	171	0	140	220
MAR.												
05...	185	8.8	40	70	100	22	45	2.9	178	0	146	220
APR.												
02...	173	7.7	100	80	110	24	51	2.7	175	0	144	250
MAY												
21...	2610	6.2	120	20	23	5.4	8.6	1.5	73	0	60	31
JUNE												
11...	4230	5.3	90	20	23	4.4	5.3	1.0	67	0	55	26
JULY												
09...	1730	5.3	80	20	33	6.1	11	1.3	75	0	62	44
AUG.												
27...	300	11	0	45	85	16	28	2.4	153	0	126	170

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	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.												
02...	30	.3	.51	.01	680	496	490	320	.5	1002	8.2	9.5
NOV.												
07...	42	.2	.28	.00	636	498	420	270	.7	942	8.1	2.0
DEC.												
04...	52	.2	.46	.01	665	408	450	300	.8	974	7.6	.0
JAN.												
15...	60	.2	.39	.07	547	259	340	190	1.1	863	7.9	.0
FEB.												
05...	55	.2	.50	.07	540	274	340	200	1.1	838	8.0	.5
MAR.												
05...	54	.3	.41	.02	543	271	340	190	1.1	873	8.0	1.0
APR.												
02...	57	.2	.33	.01	591	276	370	230	1.1	904	7.9	5.5
MAY												
21...	4.5	.2	.15	.00	117	825	80	20	.4	190	7.6	8.0
JUNE												
11...	3.3	.4	.30	.00	105	1180	76	21	.3	173	8.2	8.5
JULY												
09...	12	.1	.65	.01	153	715	110	46	.5	255	7.6	12.5
AUG.												
27...	37	.2	.34	.00	425	344	270	150	.7	658	8.1	15.0

09069000 EAGLE RIVER AT GYPSUM, COLO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	710	860	900	900	810	800	900	515	320	205	500	700
2	700	710	810	700	810	810	900	520	210	200	500	705
3	710	700	900	900	810	810	900	600	210	200	510	710
4	710	700	900	900	900	810	900	610	220	205	505	710
5	710	710	810	810	810	900	900	515	225	210	500	710
6	800	710	810	810	800	900	900	405	225	210	420	710
7	710	710	900	900	900	820	810	415	300	210	410	800
8	710	710	800	810	810	900	810	420	210	215	415	810
9	710	710	800	810	810	900	900	505	120	215	420	810
10	610	710	610	800	910	910	900	410	120	215	500	810
11	700	900	700	800	810	910	900	315	120	215	570	810
12	600	710	900	900	810	910	900	215	120	215	560	800
13	710	800	810	800	810	910	900	210	120	220	560	800
14	700	800	800	800	810	810	900	210	115	300	600	800
15	710	710	700	800	900	810	900	210	200	305	580	810
16	610	800	910	900	900	910	710	205	205	305	600	810
17	600	710	910	810	910	910	800	210	200	310	600	810
18	520	900	900	800	900	900	600	200	210	315	600	810
19	600	800	900	800	900	900	800	200	215	310	580	810
20	600	800	900	800	900	910	800	120	215	305	600	810
21	600	800	810	800	900	810	800	120	210	310	610	900
22	600	800	810	900	910	910	800	200	212	320	600	900
23	610	910	810	900	900	900	800	205	200	405	605	910
24	610	800	810	910	900	910	710	220	125	415	600	910
25	610	800	810	910	800	910	710	210	200	415	600	900
26	610	900	810	810	810	900	710	210	115	420	605	900
27	700	800	810	810	810	810	800	210	115	415	605	900
28	700	700	900	900	810	810	710	220	115	420	605	900
29	700	900	810	910	---	810	710	300	115	415	610	900
30	700	900	900	900	---	810	600	300	220	500	700	900
31	700	---	900	900	---	900	---	320	---	500	700	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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

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 mi (10 km) upstream from Glenwood Springs and 6.5 mi (10.5 km) upstream from Roaring Fork River.

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

PERIOD OF RECORD.--Chemical analyses: October 1941 to September 1973.
Water temperatures: May 1949 to September 1973.

EXTREMES, 1972-73.--Specific conductance: Maximum daily, 720 micromhos Dec. 11; minimum daily, 185 micromhos June 11.
Water temperatures: Maximum, 20°C on several days during August; 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 (1949-73): 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 1972 TO SEPTEMBER 1973

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.												
02...	1330	9.3	40	16	64	13	60	2.5	138	0	113	110
NOV.												
07...	1590	9.9	40	20	53	11	50	2.3	126	0	103	86
DEC.												
04...	1420	10	130	40	57	12	61	3.0	130	0	107	96
JAN.												
15...	1250	11	60	0	55	11	59	2.5	130	0	107	80
FEB.												
05...	1120	11	60	40	55	11	66	2.7	131	0	107	84
MAR.												
05...	1190	10	30	20	54	10	61	2.6	124	0	102	83
APR.												
02...	1300	9.4	80	70	56	14	66	2.8	131	0	107	110
MAY												
21...	9730	9.4	80	30	26	5.2	10	1.5	86	0	71	29
JUNE												
11...	10700	8.1	90	10	28	4.6	9.4	1.2	78	0	64	27
JULY												
09...	5400	8.4	80	0	31	6.0	17	1.4	85	0	70	42
AUG.												
27...	1680	10	60	40	50	11	48	2.4	124	0	102	90

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	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.												
02...	82	.4	.00	.01	409	1470	210	100	1.8	701	8.0	11.0
NOV.												
07...	67	.3	.02	.00	342	1470	180	74	1.6	598	7.9	3.5
DEC.												
04...	89	.3	.08	.00	393	1510	190	85	1.9	661	7.5	.0
JAN.												
15...	82	.2	.16	.04	364	1230	180	71	1.9	636	7.7	.0
FEB.												
05...	89	.3	.21	.04	383	1160	180	70	2.2	667	7.9	.0
MAR.												
05...	89	.4	.14	.00	372	1200	180	74	2.0	651	7.9	1.0
APR.												
02...	89	.3	.04	.00	412	1450	200	90	2.0	705	7.8	5.5
MAY												
21...	9.9	.2	.12	.00	134	3520	86	16	.5	224	8.1	10.5
JUNE												
11...	8.1	.3	.08	.00	126	3640	89	25	.4	206	8.3	12.0
JULY												
09...	20	.3	.03	.00	168	2450	100	32	.7	291	7.7	15.5
AUG.												
27...	66	.1	.07	.01	339	1540	170	68	1.6	583	8.1	17.0

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	570	570	490	630	565	530	570	430	240	220	420	510
2	600	570	520	660	560	540	580	450	240	220	420	520
3	600	540	590	670	580	530	600	500	240	230	430	520
4	580	520	580	610	570	540	620	500	250	230	435	520
5	580	500	580	580	550	540	620	440	---	230	420	530
6	580	500	710	580	530	540	600	390	280	240	400	530
7	570	510	650	590	550	550	510	380	270	250	400	540
8	570	510	570	580	540	540	550	420	250	270	390	550
9	550	520	570	580	550	550	580	360	220	270	400	540
10	520	530	670	550	560	550	590	320	210	280	410	540
11	550	520	720	540	550	540	580	280	185	290	400	550
12	570	520	700	570	520	560	580	250	200	300	400	570
13	580	510	620	560	530	550	570	250	190	300	410	550
14	570	510	600	530	550	540	560	240	200	280	440	540
15	530	530	620	550	580	550	530	240	---	340	460	550
16	540	---	660	560	600	560	---	240	220	270	460	550
17	520	520	710	560	600	540	550	230	240	270	500	560
18	530	520	640	540	590	530	510	230	240	290	510	560
19	540	510	600	550	605	550	510	210	250	300	500	570
20	540	500	530	550	560	540	570	200	260	290	500	560
21	510	510	560	550	570	540	540	200	260	280	500	570
22	520	520	570	610	570	540	510	210	260	280	510	570
23	530	530	570	610	580	560	---	220	250	---	530	550
24	540	400	---	620	570	560	700	220	250	320	520	540
25	560	530	600	620	520	590	660	210	260	360	510	550
26	550	520	590	620	540	590	620	220	240	395	510	530
27	550	520	680	610	530	560	620	230	235	400	520	520
28	550	520	---	---	550	560	580	250	230	420	510	530
29	540	550	600	610	---	550	500	260	240	410	510	520
30	550	510	550	650	---	550	440	260	230	410	520	510
31	560	---	560	600	---	560	---	260	---	410	520	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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

09095500 COLORADO RIVER NEAR CAMEO, COLO.

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

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

PERIOD OF RECORD.--Chemical analyses: October 1933 to September 1973.
Water temperatures: April 1949 to September 1973.

EXTREMES, 1972-73.--Specific conductance: Maximum daily, 1,080 micromhos Mar. 9: minimum daily, 275 micromhos June 12, 13, 14, 15.
Water temperatures: Maximum, 22°C Aug. 18; 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 (1949-73): Maximum, 24°C Aug. 16, 1962; minimum, freezing point on many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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.												
06...	2200	9.7	30	0	79	19	120	3.7	177	0	145	160
NOV.												
06...	2820	9.1	50	0	67	17	100	4.2	173	0	142	140
DEC.												
08...	2500	8.9	40	40	78	19	140	3.7	180	0	148	160
JAN.												
19...	2000	9.1	50	10	71	17	130	4.4	172	0	141	150
FEB.												
13...	1900	8.5	40	20	70	17	130	3.7	164	0	135	150
MAR.												
20...	2260	7.1	40	10	72	18	140	4.3	167	0	137	150
APR.												
13...	1490	5.8	50	20	74	21	140	4.2	181	0	148	170
MAY												
25...	14000	9.4	60	0	37	8.0	22	1.6	114	0	94	43
JUNE												
15...	22200	7.6	50	0	30	8.1	20	1.5	106	0	87	36
JULY												
13...	9530	7.5	60	0	41	9.3	35	2.1	106	0	87	57
AUG.												
31...	2600	9.7	30	10	68	16	100	3.3	154	8	140	140

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	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)
OCT.												
06...	160	.4	.02	.02	639	3800	280	130	3.1	1099	8.3	13.0
NOV.												
06...	130	.3	.18	.00	554	4220	240	95	2.8	970	7.4	6.0
DEC.												
08...	190	.4	.20	.00	689	4650	270	130	3.7	1190	7.7	.0
JAN.												
19...	160	.3	.24	.00	628	3590	250	110	3.6	1070	7.7	.0
FEB.												
13...	160	.3	.13	.00	621	3190	240	110	3.6	1070	8.2	.0
MAR.												
20...	180	.3	.11	.06	655	4000	250	120	3.8	1180	8.3	8.0
APR.												
13...	180	.4	.07	.01	685	2760	270	120	3.7	1170	8.3	11.5
MAY												
25...	23	.4	.20	.01	202	7640	130	32	.9	345	7.5	10.5
JUNE												
15...	16	.2	.12	.00	172	10300	110	21	.8	275	7.6	11.0
JULY												
13...	40	.3	.16	.00	245	6310	140	54	1.3	422	7.8	17.0
AUG.												
31...	140	.1	.08	.01	561	3940	240	96	2.8	950	8.5	18.5

09095500 COLORADO RIVER NEAR CAMEO, COLO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1000	975	975	1000	1050	1050	1000	900	400	300	625	900
2	1000	900	975	1050	1050	1050	1000	850	400	300	650	900
3	1000	900	975	1050	1050	1050	1000	700	400	300	675	900
4	1000	900	975	1050	1050	1050	1000	700	400	300	675	950
5	1000	900	970	1050	1050	1050	1000	700	375	300	675	950
6	1000	900	970	1050	1050	1050	1000	650	400	300	700	950
7	1000	900	975	1050	1000	1050	1000	650	400	350	700	975
8	1000	900	975	1050	1000	1060	1000	600	425	350	700	975
9	1000	900	975	1050	1000	1080	1000	600	425	375	700	975
10	975	900	1000	1050	975	1000	1030	600	350	375	650	1030
11	975	900	1000	1050	975	1000	1030	575	300	400	650	1030
12	975	900	1000	1050	975	1000	1030	550	275	400	650	1030
13	975	900	1000	1050	975	1000	1030	400	275	400	700	1050
14	975	900	1000	1050	975	1000	1000	400	275	400	700	1050
15	975	900	1000	1050	975	1000	1000	375	275	400	750	975
16	950	900	1000	1050	975	1000	1000	375	300	400	775	975
17	900	900	1000	1050	975	1000	1000	350	300	400	775	1000
18	900	900	1000	1050	975	975	1000	350	325	400	850	1000
19	875	900	1000	1050	975	975	1000	350	325	400	875	1000
20	875	900	1000	1050	975	975	1000	300	325	425	825	1000
21	900	900	1000	1050	970	975	1000	300	350	425	825	1000
22	900	900	1000	1050	1000	975	1000	300	375	425	850	1000
23	875	900	1000	1050	1000	975	1000	300	375	425	850	1050
24	900	---	1000	1050	1000	975	1000	300	350	425	850	1050
25	900	---	1000	1050	1000	975	1030	300	350	450	850	1050
26	900	900	1000	1050	1000	1000	1030	350	350	475	850	1050
27	900	950	1000	1050	1000	1000	1000	350	350	500	850	1050
28	900	950	1000	1050	1000	1000	1000	375	325	500	850	1050
29	900	975	1000	1050	---	1000	1000	375	300	525	900	1030
30	975	975	1000	1050	---	1000	950	375	300	600	900	1030
31	975	---	1000	1050	---	1000	---	400	---	625	900	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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

09105000 PLATEAU CREEK NEAR CAMEO, COLO.

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

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

PERIOD OF RECORD.--Chemical analyses: Water years 1969-71 (partial-record only), October 1971 to September 1973.
Water temperatures: October 1971 to September 1973.

EXTREMES, 1972-73.--Specific conductance: Maximum daily, 850 micromhos Aug. 12, 23; minimum daily, 190 micromhos June 15.
Water temperatures: Maximum, 24°C June 30; minimum, 1°C on several days during November to January.
Period of record.--Specific conductance: Maximum daily, 900 micromhos Nov. 26, 1971; minimum daily, 190 micromhos June 15, 1973.
Water temperatures: Maximum, 24°C June 30, 1973; minimum, freezing point on several days during December 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
NOV.												
10...	112	27	80	10	61	35	67	4.7	373	0	306	110
FEB.												
14...	76	25	80	20	60	33	76	5.3	356	14	315	120
MAY												
29...	935	15	70	0	36	11	16	2.0	175	0	144	25
AUG.												
13...	94	32	110	20	62	38	66	6.3	402	0	330	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 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)
NOV.												
10...	9.0	.6	.41	.09	500	151	300	0	1.7	750	8.3	5.0
FEB.												
14...	12	.5	.73	.05	525	108	290	0	2.0	774	8.5	1.5
MAY												
29...	5.9	.1	.20	.02	198	500	140	0	.6	334	8.1	9.0
AUG.												
13...	9.6	.6	.17	.03	514	130	310	0	1.6	776	8.3	20.0

09105000 PLATEAU CREEK NEAR CAMEO, COLO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	700	700	600	700	700	600	600	275	290	690	600	500
2	650	700	600	700	750	600	600	275	275	700	575	500
3	650	700	600	700	710	590	675	290	250	650	550	450
4	650	600	650	700	790	590	675	290	250	650	700	550
5	700	700	675	700	800	590	675	310	290	650	700	550
6	700	700	675	700	800	610	690	300	280	690	700	700
7	710	700	675	700	700	610	500	275	300	700	650	800
8	710	700	600	650	710	675	500	275	250	750	550	600
9	750	700	700	650	725	675	450	250	260	690	700	700
10	750	750	700	710	725	675	425	300	290	650	700	600
11	800	790	700	700	725	675	600	300	275	650	700	550
12	600	790	750	700	725	690	600	250	260	700	850	590
13	650	790	700	700	800	600	690	250	240	700	700	650
14	650	800	700	650	800	500	690	275	250	700	600	700
15	700	800	700	650	800	550	590	260	190	690	700	700
16	700	775	700	650	800	550	550	300	210	690	650	700
17	700	750	750	700	800	600	550	300	250	625	650	590
18	700	700	700	700	790	700	500	290	300	650	800	590
19	700	700	---	600	775	700	500	275	350	650	700	575
20	800	700	---	600	775	700	525	290	325	650	700	625
21	800	700	---	590	710	750	525	275	450	650	700	650
22	800	600	700	550	710	800	425	275	490	690	750	650
23	800	600	700	600	710	810	700	250	450	690	850	590
24	800	600	700	600	725	810	650	275	490	690	500	550
25	700	650	700	700	725	600	600	290	525	725	500	500
26	700	650	700	750	700	650	600	290	590	650	650	500
27	700	650	750	750	700	700	425	270	600	650	650	600
28	700	700	750	700	600	800	410	260	575	650	700	600
29	700	700	750	700	---	650	425	250	575	650	590	590
30	700	700	700	700	---	650	400	270	590	650	590	590
31	700	---	700	700	---	690	---	290	---	650	750	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.0	4.0	11.0	1.0	1.0	4.0	8.0	18.0	18.0	18.0	19.0	20.0
2	15.0	4.0	12.0	1.0	2.0	4.0	8.0	18.0	21.0	17.0	16.0	21.0
3	14.0	4.5	7.0	1.0	3.0	8.0	8.0	18.0	18.0	17.0	17.0	22.0
4	14.0	4.5	8.0	4.0	3.0	8.0	10.0	18.0	20.0	17.0	18.0	18.0
5	17.0	4.0	9.0	2.0	3.0	8.0	10.0	14.0	20.0	17.0	19.0	18.0
6	17.0	4.0	7.0	3.0	3.0	6.0	10.0	18.0	21.0	18.0	21.0	18.0
7	17.0	3.0	3.0	2.0	6.0	9.0	10.0	18.0	22.0	16.0	19.0	19.0
8	18.0	4.0	3.0	1.0	6.0	8.0	12.0	14.0	19.0	17.0	19.0	18.0
9	17.0	4.5	1.5	1.0	8.0	8.0	12.0	15.0	14.0	17.0	15.0	17.0
10	15.0	4.0	1.0	1.0	6.0	8.0	11.0	16.0	19.0	17.0	17.0	19.0
11	17.0	4.0	2.0	1.5	6.0	8.0	14.0	9.0	19.0	18.0	17.0	21.0
12	15.0	2.0	2.0	1.0	4.0	7.0	14.0	10.0	15.0	17.0	17.0	18.0
13	16.0	2.0	1.0	2.0	3.0	10.0	14.0	13.0	19.0	17.0	16.0	19.0
14	17.0	2.0	1.0	2.0	2.0	12.0	12.0	14.0	20.0	17.0	15.0	19.0
15	17.0	1.0	1.0	1.0	2.0	12.0	11.0	11.0	20.0	17.0	15.0	19.0
16	18.0	1.0	1.0	1.0	2.0	10.0	10.0	12.0	23.0	20.0	15.0	17.0
17	18.0	1.0	1.0	2.0	2.0	9.0	8.0	10.0	22.0	20.0	15.0	16.0
18	17.0	4.0	1.0	2.0	2.0	9.0	7.0	10.0	19.0	19.0	19.0	19.0
19	15.0	4.0	---	1.0	4.0	9.0	10.0	16.0	14.0	19.0	16.0	19.0
20	15.0	4.0	---	1.0	5.0	9.0	10.0	17.0	15.0	18.0	17.0	18.0
21	15.0	5.0	---	1.0	5.0	8.0	12.0	18.0	20.0	18.0	18.0	18.0
22	15.0	6.0	1.0	1.0	4.0	4.0	12.0	19.0	20.0	18.0	15.0	15.0
23	15.0	6.0	1.0	2.0	6.0	4.0	12.0	14.0	22.0	19.0	14.0	17.0
24	15.0	7.0	1.0	3.0	5.0	8.0	10.0	12.0	18.0	16.0	19.0	19.0
25	15.0	7.0	1.0	2.0	4.0	9.0	11.0	9.0	19.0	17.0	19.0	17.0
26	11.0	9.0	1.0	2.0	4.0	10.0	10.0	14.0	20.0	17.0	12.0	16.0
27	11.0	9.5	1.0	2.0	4.0	12.0	10.0	10.0	21.0	20.0	12.0	19.0
28	4.0	12.0	2.0	1.0	5.0	8.0	14.0	14.0	22.0	19.0	17.0	19.0
29	2.0	12.0	2.0	1.0	---	10.0	14.0	18.0	24.0	19.0	17.0	21.0
30	4.0	12.0	1.5	2.0	---	10.0	13.0	18.0	20.0	18.0	15.0	19.0
31	4.5	---	2.0	2.0	---	10.0	---	18.0	---	17.0	15.0	---

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

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

DRAINAGE AREA.--7,928 mi² (20,534 km²).

PERIOD OF RECORD.--Chemical analyses: October 1931 to September 1973.
Water temperatures: April 1949 to September 1973.

EXTREMES, 1972-73.--Specific conductance: Maximum daily, 2,400 micromhos Oct. 30; minimum daily, 320 micromhos May 15, 17, 19, 20.
Water temperatures: Maximum, 25°C July 10, 11, 30, 31; 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 (1949-73): Maximum, 30°C Aug. 13, 1958; minimum, freezing point on many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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 SUDIUM (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.												
06...	1240	16	50	8	190	63	120	5.4	249	0	204	730
NOV.												
08...	1760	14	--	40	120	44	89	3.8	186	0	153	450
DEC.												
21...	3750	14	30	20	91	35	67	3.4	185	0	152	350
JAN.												
29...	1480	13	50	20	67	25	41	6.2	167	0	137	220
FEB.												
15...	781	11	50	60	110	52	120	5.9	224	0	184	690
MAR.												
15...	1190	12	60	30	110	49	97	3.9	208	0	171	510
MAY												
07...	4290	11	170	10	56	22	46	2.9	138	0	113	220
29...	5720	14	90	30	56	17	28	2.4	113	0	93	170
JULY												
23...	2130	17	100	40	120	39	82	3.8	192	0	157	440
AUG.												
13...	1160	15	30	20	95	30	52	3.0	159	0	130	330

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	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...	16	.8	1.7	.02	1290	4320	730	550	1.9	1671	8.2	13.5
NOV.												
08...	11	.4	1.1	.00	829	3940	480	330	1.8	1100	8.2	7.0
DEC.												
21...	12	.6	1.5	.01	671	6800	370	220	1.5	972	8.2	2.5
JAN.												
29...	6.7	.4	.25	.01	463	1850	270	150	1.1	688	8.2	.0
FEB.												
15...	20	.5	1.2	.01	1040	2190	490	310	2.4	1380	8.1	2.0
MAR.												
15...	14	.4	1.0	.01	903	2900	480	310	1.9	1280	8.2	6.0
MAY												
07...	7.7	.2	.20	.01	435	5040	230	120	1.3	642	7.7	8.0
29...	5.3	.3	.45	.01	351	5420	210	120	.8	539	7.9	12.0
JULY												
23...	11	.5	1.1	.00	813	4680	460	300	1.7	1100	7.8	20.0
AUG.												
13...	8.8	.4	.78	.00	616	1930	360	230	1.2	876	8.3	18.5

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1280	1200	650	350	800	1050	850	550	500	560	1200	1000
2	1310	1000	750	475	700	1050	850	600	500	540	1300	1200
3	1400	1000	800	700	700	1050	900	550	480	590	1100	1000
4	1410	1100	800	440	800	1050	900	750	550	650	900	1200
5	1450	1100	900	420	700	1050	950	500	540	675	900	1000
6	1500	1050	700	440	825	1050	1000	500	550	675	850	1000
7	1490	1050	600	440	800	1030	800	600	580	650	1300	1100
8	1400	1000	625	580	825	1030	950	580	520	675	750	1100
9	1400	1000	750	420	825	1000	950	460	540	700	800	1000
10	1400	950	650	440	800	1030	1000	400	550	825	800	800
11	1390	850	700	480	850	1050	950	380	420	800	950	1100
12	1350	900	520	460	850	1030	900	360	420	850	1000	800
13	1300	1000	650	440	800	950	900	350	420	825	1000	1200
14	1300	1000	500	460	900	800	800	350	420	725	1200	1200
15	1250	950	700	750	950	1030	750	320	440	950	1300	1200
16	1100	950	480	480	1080	1030	900	340	460	950	1300	1100
17	1350	740	700	460	825	950	700	320	520	900	1100	1100
18	1100	825	580	800	800	900	750	340	560	950	1100	1100
19	1030	850	600	800	750	950	800	320	580	1000	800	1100
20	1210	860	500	800	1000	900	850	320	600	1000	700	1000
21	1100	1000	675	800	850	800	750	340	600	1000	700	1000
22	1100	800	500	700	850	600	900	340	625	1000	850	1100
23	1200	850	800	700	900	800	900	360	550	1100	750	1000
24	1200	850	550	475	950	850	850	380	550	1100	950	1200
25	1300	800	700	590	1030	800	800	360	600	1100	760	1100
26	1210	650	525	750	1000	850	700	420	580	1000	850	1200
27	1230	800	800	750	1030	850	750	400	575	1000	1000	1100
28	1300	700	520	800	1050	900	800	450	525	950	775	1000
29	1800	725	650	650	---	950	700	500	450	1000	1000	1000
30	2400	650	675	800	---	1000	500	480	550	1200	1100	1000
31	1100	---	700	600	---	950	---	480	---	1300	1350	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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

09163530 COLORADO RIVER BELOW COLORADO-UTAH STATE LINE

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

DRAINAGE AREA.--18,034 mi² (46,708 km²).

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1973.
Water temperatures: October 1972 to September 1973.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
AUG. 09...	7450	13	1600	10	110	32	73	1.0	184	0	151	360

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	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)
AUG. 09...	50	.4	.90	.01	736	14800	410	260	1.6	1010	7.4	20.0

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	1410	1240	1340	1420	1340	1380	---	---	---
2	---	---	---	1410	1250	1380	1460	1220	1420	---	---	---
3	---	---	---	1390	1350	1370	---	---	---	---	---	---
4	---	---	---	1420	1280	1390	900	818	886	---	---	---
5	---	---	---	1490	1420	1440	914	891	901	---	---	---
6	---	---	---	1530	1280	1460	970	914	937	---	---	---
7	---	---	---	1620	1280	1530	---	---	---	---	---	---
8	---	---	---	1510	1450	1490	---	---	---	---	---	---
9	---	---	---	1530	1350	1470	---	---	---	---	---	---
10	1500	1300	1250	---	---	---	---	---	---	---	---	---
11	1360	1280	1310	---	---	---	---	---	---	---	---	---
12	1300	1270	1280	---	---	---	---	---	---	---	---	---
13	1290	1250	1280	---	---	---	---	---	---	---	---	---
14	1310	1270	1290	---	---	---	1060	750	990	---	---	---
15	1320	1260	1300	---	---	---	1080	800	950	---	---	---
16	1400	1330	1370	---	---	---	1200	1030	1150	---	---	---
17	1460	1330	1380	---	---	---	1290	1280	1280	---	---	---
18	1540	1390	1460	1290	1230	1260	1370	1270	1330	---	---	---
19	1400	1310	1360	1310	1220	1280	1510	1380	1450	---	---	---
20	1390	1340	1370	1320	1240	1290	---	---	---	---	---	---
21	1440	1360	1400	1350	1310	1320	---	---	---	---	---	---
22	1390	1200	1370	1370	1300	1330	---	---	---	---	---	---
23	---	---	---	1290	1230	1250	---	---	---	---	---	---
24	---	---	---	1300	1230	1250	---	---	---	---	---	---
25	1380	1340	1360	1300	1280	1290	---	---	---	---	---	---
26	1350	1320	1330	1320	1290	1310	---	---	---	---	---	---
27	1320	1320	1320	1300	1220	1280	---	---	---	---	---	---
28	1320	1310	1310	1310	1220	1300	---	---	---	---	---	---
29	1320	1290	1300	1360	1300	1340	---	---	---	---	---	---
30	1320	1280	1310	1360	1210	1340	---	---	---	---	---	---
31	1320	1300	1310	---	---	---	---	---	---	---	---	---

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	1230	1200	1220	731	674	702
2	---	---	---	---	---	---	1250	1210	1230	726	701	712
3	---	---	---	---	---	---	1220	1190	1210	752	702	725
4	---	---	---	1430	1410	1420	1230	1180	1200	787	750	766
5	---	---	---	---	---	---	1300	1170	1220	792	754	769
6	---	---	---	1420	1290	1360	1320	1260	1290	760	670	712
7	---	---	---	1440	1420	1430	1310	1280	1290	731	672	701
8	---	---	---	1480	1440	1460	1300	1280	1290	714	696	706
9	---	---	---	1480	1470	1470	1280	1190	1270	696	642	671
10	---	---	---	1470	1460	1460	1280	1190	1240	645	578	614
11	---	---	---	1470	1450	1460	1260	1160	1200	577	416	464
12	---	---	---	1460	1450	1460	1230	1200	1210	471	413	452
13	---	---	---	1460	1450	1460	1220	1200	1210	428	399	416
14	1520	1510	1520	1460	1430	1440	1210	1190	1200	407	387	398
15	1540	1520	1520	1440	1410	1430	1210	1190	1200	399	380	390
16	1530	1520	1520	1470	1420	1440	1190	1170	1180	396	372	387
17	1540	1520	1530	1460	1440	1450	1180	1170	1170	396	368	382
18	1540	1520	1520	1450	1440	1450	1160	1140	1150	403	328	367
19	1540	1520	1520	1450	1440	1440	1140	1120	1130	395	375	388
20	1540	1520	1530	1460	1440	1450	---	---	---	397	370	384
21	---	---	---	1470	1450	1460	---	---	---	371	354	366
22	---	---	---	1460	1420	1450	---	---	---	369	353	362
23	---	---	---	1440	1410	1420	---	---	---	378	357	370
24	---	---	---	1440	1400	1420	---	---	---	403	377	391
25	---	---	---	1460	1410	1430	1040	1020	1030	410	377	399
26	---	---	---	1440	1420	1420	968	944	961	420	377	405
27	---	---	---	1420	1270	1400	907	887	897	452	420	441
28	---	---	---	1410	1380	1390	845	828	837	484	420	467
29	---	---	---	1390	1380	1390	787	763	772	525	481	503
30	---	---	---	1380	1250	1330	735	714	722	543	512	528
31	---	---	---	1250	1210	1230	---	---	---	542	524	530

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	526	510	517	---	---	---	1060	978	1030	1520	1400	1440
2	518	483	502	---	---	---	1040	938	988	1520	1240	1370
3	485	472	480	---	---	---	1140	906	1010	1360	1190	1270
4	516	478	497	---	---	---	1070	995	1020	1410	1260	1330
5	542	512	528	---	---	---	1110	1030	1080	1420	1260	1330
6	544	528	535	496	479	487	1030	878	950	1450	1390	1420
7	568	536	549	510	487	496	966	930	940	1470	1200	1350
8	576	471	547	529	503	519	1060	936	1010	1280	1120	1200
9	520	441	483	561	525	543	1140	914	1010	1230	1120	1170
10	461	377	416	580	552	567	1140	957	1050	1220	1180	1210
11	391	358	367	573	553	563	1180	981	1070	1550	1170	1330
12	358	320	341	578	554	568	1210	1010	1090	1460	1200	1310
13	344	321	335	715	571	630	1250	1040	1130	1330	1170	1250
14	350	323	336	800	656	699	1240	1110	1140	1300	1240	1260
15	386	323	349	757	584	703	1380	1150	1270	1430	1310	1390
16	369	321	353	746	680	701	1300	1070	1140	1460	1350	1410
17	404	344	372	698	648	678	1310	1060	1180	1410	1310	1360
18	442	376	423	750	651	718	1270	1070	1160	1390	1260	1320
19	455	430	451	696	661	679	1360	1080	1180	1620	1260	1450
20	471	385	462	778	667	738	1330	1150	1220	1620	1570	1590
21	484	461	478	836	717	759	1360	1160	1220	1640	1610	1630
22	485	451	471	754	701	737	1380	1160	1270	1660	1620	1630
23	456	430	450	744	699	726	1280	1140	1200	1670	1610	1630
24	440	422	435	758	686	728	1200	1160	1170	1680	1620	1630
25	432	418	426	834	715	776	1300	1140	1200	1620	1550	1590
26	437	418	426	812	728	777	1380	1120	1190	1640	1490	1560
27	420	384	408	844	790	811	1390	1150	1240	1520	1500	1510
28	465	383	416	890	822	852	1410	1150	1260	1500	1490	1500
29	445	431	439	930	844	883	1370	1140	1220	1500	1480	1490
30	458	420	451	914	844	869	1270	1230	1250	1470	1440	1450
31	---	---	---	978	908	957	1480	1280	1410	---	---	---

COLORADO RIVER MAIN STEM

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

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	5.0	3.5	4.5	2.0	1.0	1.5	---	---	---
2	---	---	---	12.0	5.0	5.5	2.0	1.5	1.5	---	---	---
3	---	---	---	7.0	5.5	6.5	2.5	1.5	2.0	---	---	---
4	---	---	---	7.5	6.5	7.0	3.0	2.0	2.5	---	---	---
5	---	---	---	7.5	7.0	7.5	1.5	1.0	1.5	---	---	---
6	---	---	---	8.0	7.5	8.0	1.0	0.5	1.0	---	---	---
7	---	---	---	8.0	7.0	7.5	---	---	---	---	---	---
8	---	---	---	9.0	7.0	7.5	1.0	0.0	0.0	---	---	---
9	---	---	---	7.5	7.0	7.5	1.5	0.5	0.5	---	---	---
10	18.0	17.5	18.0	7.5	4.5	19.5	0.5	0.0	0.0	---	---	---
11	17.0	15.0	15.5	---	---	---	0.0	0.0	0.0	---	---	---
12	16.5	15.0	15.5	---	---	---	0.0	0.0	0.0	---	---	---
13	17.0	15.0	16.0	---	---	---	0.5	0.0	0.0	---	---	---
14	16.0	15.0	16.0	---	---	---	0.0	0.0	0.0	---	---	---
15	16.0	14.5	15.0	---	---	---	0.0	0.0	0.0	---	---	---
16	14.5	13.5	14.0	---	---	---	0.0	0.0	0.0	---	---	---
17	14.0	13.0	13.5	5.0	4.0	4.5	0.0	0.0	0.0	---	---	---
18	13.5	13.0	13.5	6.0	4.5	5.5	0.0	0.0	0.0	---	---	---
19	13.5	13.5	13.0	6.0	4.5	5.5	0.0	0.0	0.0	---	---	---
20	13.0	13.0	12.5	6.0	5.5	5.5	0.0	0.0	0.0	---	---	---
21	12.5	11.5	12.0	6.0	5.0	5.5	---	---	---	---	---	---
22	13.0	12.0	12.5	5.0	3.5	4.0	---	---	---	---	---	---
23	12.0	11.0	12.0	3.5	2.5	3.5	---	---	---	---	---	---
24	11.5	10.5	11.0	4.0	3.0	3.5	---	---	---	---	---	---
25	11.5	10.5	11.0	3.5	2.5	3.0	---	---	---	---	---	---
26	11.5	10.5	11.0	3.0	2.5	3.0	---	---	---	---	---	---
27	11.0	10.0	10.5	3.0	2.5	2.5	---	---	---	---	---	---
28	10.0	9.5	9.5	2.5	1.5	2.0	---	---	---	---	---	---
29	9.5	7.0	8.5	2.5	1.5	2.0	---	---	---	---	---	---
30	7.5	6.0	7.0	2.0	1.0	1.5	---	---	---	---	---	---
31	6.0	5.0	5.0	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.0	4.0	5.0	12.5	12.0	12.0	12.5	10.5	11.5
2	---	---	---	7.5	5.0	6.0	12.0	11.5	11.5	14.5	12.5	13.5
3	---	---	---	7.5	5.5	6.0	11.5	11.0	11.5	15.5	13.5	14.5
4	---	---	---	6.5	5.0	6.0	11.5	11.0	11.0	16.5	14.5	15.5
5	---	---	---	6.5	4.5	5.5	11.0	7.0	10.5	15.5	15.0	15.5
6	---	---	---	7.0	5.0	6.0	11.5	5.5	7.5	14.5	13.0	13.5
7	---	---	---	7.5	5.5	6.5	12.5	8.5	11.0	14.5	12.5	13.0
8	---	---	---	8.0	6.5	7.0	8.5	6.0	7.5	15.5	14.0	14.5
9	---	---	---	9.0	7.5	8.0	10.5	7.0	8.5	16.5	15.0	16.0
10	---	---	---	9.5	7.0	8.0	11.0	8.5	10.0	17.0	15.5	16.0
11	---	---	---	9.0	7.5	8.0	11.0	9.0	10.5	17.5	15.0	16.5
12	---	---	---	9.0	7.5	8.0	13.5	10.5	12.0	17.0	14.5	16.0
13	---	---	---	9.0	8.0	8.5	14.5	11.0	12.5	16.5	14.5	15.5
14	1.0	0.5	1.0	8.0	6.5	7.5	13.5	11.0	12.5	15.5	14.0	15.0
15	0.5	0.0	0.0	8.0	5.5	6.5	14.0	11.5	12.5	15.5	13.5	14.5
16	0.5	0.0	0.0	8.5	5.5	7.0	13.5	11.0	12.0	16.5	14.0	15.0
17	0.5	0.0	0.0	9.5	6.5	8.0	13.5	11.5	12.0	17.0	14.5	15.5
18	0.5	0.0	0.0	10.5	9.0	9.5	13.0	9.5	11.5	16.5	15.0	16.5
19	1.0	0.0	0.0	10.5	8.0	9.5	10.5	8.5	9.5	16.0	15.0	15.5
20	0.0	0.0	0.0	9.5	9.0	9.0	11.0	8.5	9.0	15.5	14.5	15.0
21	2.5	1.0	2.0	9.0	8.5	8.5	---	---	---	15.0	14.0	14.5
22	3.5	1.5	2.5	9.0	7.0	8.0	---	---	---	14.5	13.0	14.0
23	4.5	2.5	3.5	8.0	6.5	7.5	---	---	---	15.0	13.0	14.0
24	5.5	3.5	4.0	7.0	6.0	6.5	---	---	---	15.0	13.5	14.5
25	6.0	3.5	5.0	8.0	7.0	7.0	16.0	13.5	14.5	15.0	12.5	14.0
26	6.0	4.0	5.0	11.0	7.5	9.5	16.0	13.5	15.0	13.5	12.5	13.0
27	6.5	4.0	5.0	11.5	9.0	10.5	16.5	14.0	15.0	13.5	11.5	12.5
28	6.5	4.0	6.0	11.5	10.0	10.5	16.5	14.5	15.0	14.5	12.0	13.0
29	---	---	---	9.5	9.0	9.5	15.5	14.0	14.5	16.0	12.5	14.5
30	---	---	---	12.5	9.0	12.0	14.5	12.0	13.0	17.0	15.0	16.0
31	---	---	---	12.5	12.0	12.0	---	---	---	18.5	15.5	17.0

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

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.0	16.5	17.0	---	---	---	24.0	22.0	23.0	21.0	19.5	20.5
2	17.0	15.0	16.0	---	---	---	23.5	22.5	23.0	19.0	18.0	18.5
3	15.5	14.5	14.5	---	---	---	24.0	22.0	23.0	19.5	17.5	18.5
4	14.5	12.5	13.5	---	---	---	24.0	22.5	23.0	20.0	17.5	18.5
5	15.5	13.0	14.0	---	---	---	23.5	22.0	22.5	21.0	18.0	19.5
6	17.0	14.0	15.5	21.0	19.5	20.5	23.0	19.0	21.5	21.5	19.0	20.0
7	---	---	---	22.0	19.5	20.5	22.0	20.5	21.5	21.5	19.5	20.5
8	---	---	---	22.0	20.5	21.0	23.0	21.0	22.0	20.0	18.5	19.5
9	---	---	---	22.0	19.5	21.0	24.0	21.0	22.5	20.0	18.0	19.0
10	---	---	---	22.5	20.0	21.5	23.5	21.5	22.5	19.5	17.5	18.5
11	---	---	---	23.5	20.5	22.0	24.0	22.0	23.0	18.0	17.5	17.5
12	---	---	---	23.0	21.0	22.0	24.0	22.0	23.0	20.0	17.5	18.5
13	---	---	---	22.5	21.0	21.5	24.5	22.5	23.5	20.5	18.5	19.5
14	---	---	---	22.5	20.5	21.0	24.0	22.5	23.5	20.5	19.0	20.0
15	---	---	---	21.5	19.0	20.5	24.0	21.5	23.0	20.5	18.5	19.5
16	---	---	---	21.0	19.5	20.5	24.0	22.5	23.5	20.0	18.5	19.0
17	---	---	---	21.0	20.0	20.5	24.0	23.0	23.5	19.5	17.5	18.5
18	---	---	---	20.0	19.0	19.5	24.0	22.0	23.0	19.5	17.5	18.5
19	---	---	---	20.5	18.5	19.5	24.5	22.5	23.5	19.0	17.5	18.0
20	---	---	---	20.5	18.5	19.5	25.0	23.0	24.0	19.0	17.5	18.5
21	---	---	---	20.5	18.5	19.5	24.0	22.0	23.5	19.0	17.5	18.5
22	13.0	0.0	---	20.0	18.0	19.0	23.5	21.5	22.5	19.0	17.5	18.0
23	13.0	8.0	12.5	20.5	18.0	19.5	23.0	21.5	22.5	18.5	16.5	17.5
24	13.0	12.5	12.5	21.5	19.0	20.0	23.0	20.5	22.0	17.5	15.5	16.5
25	13.5	12.0	12.5	22.0	20.0	21.0	23.0	21.0	22.0	16.5	15.0	15.5
26	14.0	12.5	13.0	22.0	20.0	21.0	23.0	21.5	22.0	16.0	14.0	14.5
27	16.5	13.5	15.0	22.0	20.5	21.5	22.0	20.5	21.0	16.0	14.5	15.0
28	---	---	---	23.5	21.0	22.0	22.0	20.0	21.0	16.5	14.5	15.5
29	---	---	---	23.5	21.5	22.5	21.5	19.5	20.5	16.5	15.0	15.5
30	---	---	---	23.5	19.0	22.5	22.5	20.0	21.0	16.0	14.5	15.5
31	---	---	---	23.5	19.0	22.5	22.0	19.5	21.0	---	---	---

09179500 DOLORES RIVER AT GATEWAY, COLO.

LOCATION.--Lat 38°40'52", long 108°05'18", Mesa County, 500 ft (150 m) downstream from bridge on State Highway 141, and 0.3 mi (0.5 km) west of Gateway.

DRAINAGE AREA.--4,350 mi² (11,266 km²).

PERIOD OF RECORD.--Chemical analyses: January 1970 to September 1973 (discontinued).

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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.												
19...	3650	8.2	--	--	200	57	130	9.3	131	0	107	660
NOV.												
17...	E400	8.7	--	--	86	30	160	8.4	183	0	150	210
DEC.												
14...	235	8.1	40	100	110	42	340	16	215	0	176	290
JAN.												
18...	310	8.4	--	--	85	35	360	19	213	0	175	220
FEB.												
15...	300	7.5	--	--	92	40	330	18	215	0	176	260
MAR.												
09...	480	8.3	--	--	87	35	240	13	201	0	165	250
APR.												
12...	1170	7.1	--	--	71	21	83	6.3	176	0	144	130
MAY												
10...	12000	7.6	--	--	37	9.4	19	6.7	112	0	92	58
JUNE												
21...	3400	7.2	--	--	42	10	24	2.1	112	0	92	59
JULY												
20...	2750	7.3	--	--	79	21	280	13	139	0	114	170
AUG.												
09...	600	5.8	--	--	88	33	270	16	139	0	114	250
SEP.												
21...	310	6.4	--	--	150	80	750	35	186	0	153	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 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)
OCT.												
19...	140	--	1.9	.04	1260	12400	650	540	2.2	1750	7.5	12.0
NOV.												
17...	240	.4	.57	.01	836	903	340	190	3.8	1450	7.5	4.5
DEC.												
14...	510	.3	.52	.00	1420	901	450	270	7.0	2410	7.6	.0
JAN.												
18...	560	--	.53	.14	1400	1170	360	180	8.3	2490	7.7	1.5
FEB.												
15...	500	--	2.7	.00	1370	1110	390	220	7.2	2330	7.9	.0
MAR.												
09...	340	--	.69	.00	1080	1400	360	200	5.5	1810	7.6	5.5
APR.												
12...	110	--	.62	.03	518	1640	260	120	2.2	874	7.7	11.5
MAY												
10...	18	--	.23	.05	212	6870	130	39	.7	353	7.8	11.5
JUNE												
21...	26	--	.38	.00	227	2080	150	54	.9	400	7.3	15.5
JULY												
20...	460	--	.70	.01	1100	8170	280	170	7.2	1940	7.3	16.5
AUG.												
09...	420	--	1.7	.18	1160	1880	360	240	6.2	1970	7.4	21.5
SEP.												
21...	1100	--	.95	.03	2740	2290	700	550	12	4589	7.5	15.0

09251000 YAMPA RIVER NEAR MAYBELL, COLO.

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

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

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

EXTREMES, 1972-73.--Specific conductance: Maximum daily, 900 micromhos on several days during April; minimum daily, 140 micromhos on several days during June and July.
Water temperatures: Maximum, 25°C July 4, 9, 10, 11, 12; minimum, 1°C on many days during December to April.
Period of record.--Specific conductance: Maximum daily, 947 micromhos Sept. 24, 1955p; 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 1972 TO SEPTEMBER 1973

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.												
04...	198	2.7	60	0	37	17	41	2.5	183	0	150	66
NOV.												
09...	425	7.8	80	10	36	15	31	2.2	160	0	131	75
DEC.												
06...	320	10	80	30	42	18	42	2.3	194	0	159	88
JAN.												
17...	290	14	80	0	41	17	44	2.4	195	0	160	87
FEB.												
08...	280	16	210	0	41	16	47	3.4	200	0	164	82
MAR.												
07...	400	13	190	20	40	20	59	3.0	199	0	163	110
APR.												
04...	588	9.4	40	10	47	26	59	2.4	172	0	141	180
MAY												
23...	11400	9.6	110	0	18	4.9	7.1	1.4	71	0	58	20
JUNE												
13...	8600	8.4	100	0	12	3.3	5.7	.8	51	0	42	13
JULY												
11...	1730	8.9	80	10	20	6.7	14	1.4	83	0	68	29
AUG.												
29...	248	4.0	50	10	35	14	32	2.5	161	7	144	66

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO, PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	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.												
04...	18	.4	.43	.01	277	148	160	12	1.4	472	8.3	14.0
NOV.												
09...	12	.3	.04	.00	258	296	150	20	1.1	450	7.9	4.0
DEC.												
06...	16	.4	.01	.00	314	271	180	20	1.4	509	7.7	.0
JAN.												
17...	16	.3	.30	.02	319	250	170	12	1.5	507	8.1	.0
FEB.												
08...	16	.3	.35	.05	324	245	180	12	1.5	514	7.6	.0
MAR.												
07...	18	.4	.32	.01	363	392	190	19	1.9	580	7.8	.0
APR.												
04...	14	.3	.55	.01	425	675	220	83	1.7	666	7.9	3.0
MAY												
23...	2.3	.2	.06	.00	99	3050	65	7	.4	159	8.2	12.5
JUNE												
13...	1.6	.0	.01	.01	70	1630	44	2	.4	112	8.3	14.0
JULY												
11...	6.2	.2	.00	.00	127	594	78	9	.7	210	8.3	22.0
AUG.												
29...	17	.1	.04	.00	257	172	150	1	1.2	425	8.7	21.5

09251000 YAMPA RIVER NEAR MAYBELL, COLO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), OCTOBER 1971 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	420	600	620	540	650	560	220	280	120	220	460	580
2	420	600	600	540	600	560	220	260	120	220	460	580
3	420	600	550	580	600	560	220	260	140	240	480	600
4	420	650	540	580	600	540	220	240	120	240	500	600
5	440	650	560	580	600	540	220	220	140	---	500	600
6	440	650	580	560	600	540	220	220	120	260	520	600
7	440	650	560	560	600	540	240	240	120	260	520	620
8	440	700	560	560	600	520	240	240	120	280	520	620
9	460	700	580	560	600	520	240	240	120	300	520	620
10	460	700	600	540	600	520	240	260	120	300	540	620
11	460	700	600	540	560	500	240	240	120	320	540	620
12	460	700	580	540	560	500	240	240	120	340	540	640
13	460	750	600	520	560	500	260	220	120	340	560	640
14	480	700	600	520	540	500	260	220	120	340	560	640
15	480	700	600	520	540	480	260	225	120	360	560	640
16	480	750	580	540	540	480	260	240	120	360	560	680
17	480	750	580	540	540	480	260	220	120	360	560	680
18	480	750	560	540	520	480	260	200	140	380	560	680
19	500	750	560	540	500	440	260	180	140	380	540	900
20	500	700	540	520	580	440	260	160	140	380	540	900
21	540	750	540	520	580	440	260	140	140	400	560	900
22	540	750	520	520	600	400	260	140	160	400	560	800
23	540	750	520	540	650	400	260	140	180	420	560	720
24	560	750	520	540	650	380	260	140	180	420	560	600
25	560	750	520	560	600	340	280	140	180	460	560	540
26	560	800	520	560	600	340	280	120	180	480	560	480
27	560	800	540	580	600	360	280	120	200	480	560	500
28	580	800	540	600	560	360	280	120	200	480	560	500
29	580	800	540	650	560	360	280	120	200	460	560	500
30	580	800	540	650	---	200	280	120	200	460	580	500
31	580	---	540	650	---	200	---	120	---	460	580	---

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	500	340	380	420	480	480	500	880	400	140	---	---
2	480	340	380	420	480	480	500	880	380	140	---	---
3	480	340	380	420	480	480	---	860	380	140	---	---
4	480	340	380	420	480	480	---	880	360	140	---	---
5	480	340	380	420	460	480	---	860	340	160	---	---
6	480	340	380	420	460	480	---	880	320	140	---	---
7	480	340	380	420	480	460	---	820	300	140	---	---
8	480	340	380	420	480	460	---	760	290	160	---	---
9	480	360	380	420	480	460	---	720	280	140	---	---
10	480	360	380	420	460	460	---	700	280	140	---	---
11	460	360	380	420	460	460	---	680	260	160	---	---
12	460	360	380	420	460	460	---	640	260	160	---	---
13	460	360	380	420	460	460	---	620	260	180	---	---
14	460	360	400	420	460	460	750	600	240	180	---	---
15	460	360	400	420	460	460	750	580	240	200	---	---
16	440	360	400	420	460	460	750	580	240	200	---	---
17	440	360	400	440	460	460	750	560	200	200	---	---
18	420	360	400	440	480	460	800	540	200	220	---	---
19	400	360	400	440	480	460	800	540	200	220	---	---
20	400	360	400	440	480	460	800	520	200	220	---	---
21	380	360	400	440	480	460	800	500	200	220	---	---
22	380	360	400	440	460	460	850	480	180	240	---	---
23	340	360	400	440	460	480	850	480	180	240	---	---
24	340	360	400	460	460	480	900	480	160	240	---	---
25	340	360	400	460	460	480	900	460	140	220	---	---
26	340	360	400	460	480	480	900	460	140	220	---	---
27	340	360	400	460	480	480	900	440	160	200	---	---
28	340	360	400	460	480	480	900	440	160	180	---	---
29	340	360	400	480	---	480	900	420	140	180	---	---
30	340	380	400	480	---	480	900	420	140	180	---	---
31	340	---	420	480	---	480	---	400	---	160	---	---

09251000 YAMPA RIVER NEAR MAYBELL, COLO.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.0	0.5	3.0	4.0	---	3.0	5.0	10.0	15.0	19.0	24.0	24.0
2	16.0	0.5	1.0	1.0	---	5.0	6.0	10.0	15.0	19.0	20.0	24.0
3	14.0	0.5	3.0	1.0	---	5.0	6.0	10.0	13.0	19.0	24.0	24.0
4	14.0	1.0	3.0	1.0	---	5.0	8.0	12.0	13.0	20.0	26.0	24.0
5	16.0	1.0	2.0	1.0	---	3.0	8.0	12.0	14.0	19.0	25.0	23.0
6	16.0	1.0	2.0	1.0	---	3.0	8.0	10.0	14.0	22.0	23.0	23.0
7	12.0	0.5	3.0	1.0	---	3.0	8.0	10.0	14.0	22.0	24.0	21.0
8	14.0	0.5	1.0	1.0	---	5.0	8.0	12.0	15.0	23.0	24.0	22.0
9	15.0	1.0	2.0	2.0	2.0	5.0	10.0	10.0	16.0	22.0	24.0	22.0
10	12.0	1.0	2.0	1.0	1.0	5.0	8.0	12.0	15.0	22.0	24.0	21.0
11	10.0	1.0	3.0	2.0	1.0	4.0	8.0	10.0	15.0	21.0	24.0	20.0
12	10.0	0.5	2.0	1.0	2.0	4.0	8.0	10.0	16.0	22.0	24.0	20.0
13	9.0	1.0	1.0	2.0	2.0	4.0	10.0	10.0	14.0	22.0	25.0	19.0
14	8.0	0.5	2.0	2.0	1.0	5.0	10.0	10.0	16.0	24.0	25.0	18.0
15	8.0	1.0	3.0	1.0	2.0	5.0	10.0	10.0	15.0	23.0	25.0	15.0
16	6.0	1.0	2.0	3.0	2.0	5.0	10.0	15.0	15.0	24.0	25.0	17.0
17	6.0	0.5	3.0	2.0	2.0	5.0	10.0	10.0	15.0	24.0	25.0	17.0
18	4.0	1.5	2.0	3.0	3.0	5.0	10.0	10.0	16.0	24.0	26.0	18.0
19	2.0	1.0	4.0	2.0	4.0	5.0	10.0	11.0	14.0	22.0	25.0	17.0
20	3.0	1.0	4.0	3.0	3.0	5.0	10.0	11.0	16.0	23.0	24.0	15.0
21	3.0	2.0	3.0	3.0	3.0	5.0	10.0	12.0	17.0	24.0	24.0	15.0
22	3.0	0.5	3.0	3.0	2.0	4.0	10.0	12.0	16.0	25.0	24.0	14.0
23	2.0	2.0	3.0	3.0	2.0	4.0	10.0	11.0	17.0	25.0	24.0	12.0
24	3.0	0.5	3.0	2.0	3.0	4.0	9.0	11.0	15.0	25.0	24.0	12.0
25	3.0	1.0	2.0	2.0	2.0	4.0	9.0	12.0	17.0	24.0	24.0	12.0
26	1.0	1.0	4.0	2.0	3.0	5.0	10.0	11.0	16.0	25.0	24.0	12.0
27	2.0	1.0	4.0	2.0	2.0	5.0	10.0	11.0	17.0	24.0	24.0	12.0
28	2.0	0.5	4.0	2.0	3.0	5.0	10.0	12.0	17.0	25.0	24.0	12.0
29	2.0	3.0	2.0	3.0	3.0	5.0	10.0	13.0	15.0	25.0	24.0	12.0
30	1.0	2.0	2.0	2.0	---	5.0	10.0	15.0	16.0	24.0	23.0	12.0
31	1.0	---	2.0	3.0	---	5.0	---	16.0	---	24.0	23.0	---

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

09251000 YAMPA RIVER NEAR MAYBELL, COLO.--Continued

TURBIDITY (JTU), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	15	15	15	1	1	1	300	300	30	---	---
2	10	15	15	15	1	1	2	300	350	25	---	---
3	10	15	15	15	1	1	2	300	350	20	---	---
4	10	15	10	15	1	1	2	350	400	15	---	---
5	10	15	10	15	1	1	2	350	400	20	---	---
6	10	15	10	15	1	1	3	350	350	15	---	---
7	10	15	10	15	1	1	3	350	300	15	---	---
8	10	15	15	15	1	1	3	300	350	15	---	---
9	10	15	15	15	1	1	4	350	350	10	---	---
10	10	15	15	10	1	1	4	350	300	10	---	---
11	10	15	15	10	1	1	4	400	250	10	---	---
12	10	15	15	10	1	1	4	400	200	10	---	---
13	10	15	15	10	1	1	5	400	200	10	---	---
14	10	15	15	10	1	1	5	350	200	15	---	---
15	10	15	15	10	1	1	5	350	200	15	---	---
16	15	15	15	10	1	1	100	350	40	15	---	---
17	15	15	15	10	1	1	100	300	30	10	---	---
18	15	15	15	1	1	1	200	300	45	10	---	---
19	15	15	15	1	1	1	200	300	65	15	---	---
20	15	15	15	1	1	1	200	300	45	15	---	---
21	15	15	15	1	1	1	200	300	30	10	---	---
22	15	15	15	1	1	1	300	300	35	10	---	---
23	15	15	15	0	1	1	300	350	40	10	---	---
24	15	15	15	0	1	1	300	350	35	10	---	---
25	15	15	15	0	1	1	300	300	35	10	---	---
26	15	15	15	0	1	1	200	300	35	10	---	---
27	15	15	15	1	1	1	200	300	40	10	---	---
28	15	15	15	1	1	1	200	300	40	10	---	---
29	15	15	15	1	---	1	200	300	35	10	---	---
30	15	15	15	1	---	1	300	300	35	10	---	---
31	15	---	15	1	---	1	---	300	---	10	---	---

09260000 LITTLE SNAKE RIVER NEAR LILY, COLO.

LOCATION.--Lat 40°32'50", long 108°25'25", in NW¼NE¼ sec.20, T.7 N., R.98 W., Moffat County, at gaging station 170 ft (52 m) downstream from highway bridge, 6 mi (10 km) north of Lily, and 10 mi (16 km) upstream from mouth.

DRAINAGE AREA.--3,730 mi² (9,660 km²), approximately.

PERIOD OF RECORD: Chemical analyses: September 1969 to September 1973.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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.												
04...	2.9	13	40	24	90	22	160	5.0	231	0	189	380
NOV.												
09...	232	14	380	10	42	12	80	2.8	207	0	170	110
DEC.												
06...	100	20	230	20	63	18	70	3.4	266	0	218	130
JAN.												
17...	100	18	80	10	50	15	59	2.5	225	0	185	100
FEB.												
07...	80	20	60	20	53	13	57	2.6	224	0	184	100
MAR.												
07...	95	15	140	10	45	12	60	2.6	208	0	171	95
APR.												
04...	370	11	200	20	34	9.4	98	2.0	188	0	154	130
MAY												
23...	5690	12	120	0	23	5.5	18	1.3	92	0	75	34
JUNE												
13...	3700	11	80	0	17	3.8	9.6	.6	71	0	58	15
JULY												
11...	395	14	40	20	35	9.0	32	3.0	144	0	118	61
AUG.												
29...	26	14	20	20	60	18	110	4.2	226	5	194	210

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	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.												
04...	72	.4	.39	.02	858	6.72	320	130	3.9	1292	8.1	10.5
NOV.												
09...	36	.5	.34	.01	401	251	150	0	2.8	647	7.9	1.5
DEC.												
06...	23	.4	.04	.00	459	124	230	13	2.0	680	7.7	.0
JAN.												
17...	16	.4	.08	.00	372	100	190	2	1.9	580	7.8	.0
FEB.												
07...	15	.4	.06	.02	372	80.4	190	2	1.8	575	7.8	.0
MAR.												
07...	15	.4	.24	.01	349	89.5	160	0	2.1	544	8.0	.0
APR.												
04...	29	.4	.53	.02	409	409	120	0	3.8	626	7.8	2.0
MAY												
23...	5.1	.3	.03	.02	145	2230	80	5	.9	231	8.2	12.0
JUNE												
13...	2.7	.1	.04	.01	95	949	58	0	.5	153	8.1	16.0
JULY												
11...	9.3	.3	.09	.00	235	251	120	6	1.2	371	8.3	20.0
AUG.												
29...	39	.2	.03	.01	572	40.2	220	30	3.2	889	8.4	15.0

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

LOCATION.--Lat 40°00'18", long 107°49'29", in NW¼NW¼ sec.3, T.1 S., R.93 W., Rio Blanco County, at gaging station 16 ft (5 m) upstream from county road bridge, 2.3 mi (3.7 km) upstream from Coal Creek, and 5 mi (8 km) southeast of Meeker.

DRAINAGE AREA.--660 mi^2 (1,700 km^2), approximately.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	380	340	220	260	360	400
2	---	---	---	---	---	---	375	355	220	250	360	400
3	---	---	---	---	---	---	380	360	225	---	360	410
4	---	---	---	---	---	---	375	350	220	---	370	400
5	---	---	---	---	---	---	380	340	215	---	360	420
6	---	---	---	---	---	---	375	340	220	---	360	420
7	---	---	---	---	---	---	380	345	220	---	360	420
8	---	---	---	---	---	---	375	320	210	340	370	385
9	---	---	---	---	---	---	320	280	215	340	370	410
10	---	---	---	---	---	---	370	320	205	340	360	420
11	---	---	---	---	---	---	380	280	200	335	370	410
12	---	---	---	---	---	---	380	240	200	340	380	400
13	---	---	---	---	---	---	380	230	200	340	360	400
14	---	---	---	---	---	---	375	240	210	330	370	400
15	---	---	---	---	---	---	380	230	200	340	380	400
16	---	---	---	---	---	---	380	240	220	330	380	400
17	---	---	---	---	---	---	380	230	220	360	375	420
18	---	---	---	---	---	---	380	230	230	360	380	420
19	---	---	---	---	---	---	370	225	220	390	380	410
20	---	---	---	---	---	---	360	220	250	350	385	420
21	---	---	---	---	---	---	365	230	240	335	385	420
22	---	---	---	---	---	---	360	220	235	340	390	420
23	---	---	---	---	---	370	365	225	240	350	380	420
24	---	---	---	---	---	380	360	220	230	345	380	410
25	---	---	---	---	---	380	350	230	220	360	390	420
26	---	---	---	---	---	380	340	240	220	355	395	410
27	---	---	---	---	---	380	360	240	230	360	385	410
28	---	---	---	---	---	380	340	235	235	350	390	400
29	---	---	---	---	---	375	330	240	250	360	390	400
30	---	---	---	---	---	380	340	230	245	360	410	410
31	---	---	---	---	---	380	---	225	---	360	400	---

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

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

EXTREMES, March to September 1973.--Specific conductance: Maximum daily, 420 micromhos on several days during September; minimum daily, 200 micromhos June 11, 12, 13, 15.
Water temperature: Maximum, 20.5°C Aug. 13; minimum, 2.0°C Mar. 23.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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

09304500 WHITE RIVER NEAR MEEKER, COLO.

LOCATION.--Lat 40°02'01", long 105°51'42", in NE¼ sec.30, T.1 N., R.93 W., Rio Blanco County, at gaging station 1.0 mi (1.6 km) upstream from Curtis Creek and 2.5 mi (4.0 km) east of Meeker.

DRAINAGE AREA.--762 mi² (1,974 km²).

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	650	490	280	300	520	590
2	---	---	---	---	---	---	625	500	300	320	520	520
3	---	---	---	---	---	---	600	490	320	340	520	540
4	---	---	---	---	---	---	650	440	340	360	540	590
5	---	---	---	---	---	---	660	420	330	365	550	600
6	---	---	---	---	---	---	620	410	320	390	520	620
7	---	---	---	---	---	---	650	450	310	400	540	630
8	---	---	---	---	---	---	650	410	280	420	540	580
9	---	---	---	---	---	---	620	390	260	420	530	600
10	---	---	---	---	---	---	600	340	240	430	530	620
11	---	---	---	---	---	---	650	320	230	440	540	600
12	---	---	---	---	---	---	650	300	240	440	540	600
13	---	---	---	---	---	---	610	300	240	480	540	600
14	---	---	---	---	---	---	600	305	235	480	530	600
15	---	---	---	---	---	---	560	290	260	500	550	600
16	---	---	---	---	---	---	610	280	280	490	550	600
17	---	---	---	---	---	---	560	270	280	480	580	600
18	---	---	---	---	---	---	580	270	285	500	580	590
19	---	---	---	---	---	---	610	250	300	520	560	600
20	---	---	---	---	---	---	625	250	310	490	560	600
21	---	---	---	---	---	---	600	250	300	480	580	610
22	---	---	---	---	---	---	650	280	280	485	580	625
23	---	---	---	---	---	560	590	260	280	470	560	700
24	---	---	---	---	---	625	570	270	290	480	570	615
25	---	---	---	---	---	675	600	280	290	480	570	640
26	---	---	---	---	---	655	625	310	260	480	550	615
27	---	---	---	---	---	625	590	300	270	485	570	610
28	---	---	---	---	---	625	540	320	280	480	570	610
29	---	---	---	---	---	600	500	320	295	485	580	605
30	---	---	---	---	---	530	500	300	290	480	600	605
31	---	---	---	---	---	650	---	290	---	500	580	---

09304500 WHITE RIVER NEAR MEEKER, COLO.--Continued

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

EXTREMES, March to September 1973.--Specific conductance: Maximum daily, 700 micromhos Sept. 23; minimum daily, 230 micromhos June 11.
Water temperature: Maximum, 20.5°C July 10, Aug. 14, 20; minimum, 1.0°C Mar. 23.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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

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 (12 m) downstream from Ryan Gulch and 23 mi (37 km) northwest of Rio Blanco.

DRAINAGE AREA.--485 mi^2 (1,256 km^2).

PERIOD OF RECORD.--Chemical analyses: December 1970 to September 1973.
Sediment records: October 1972 to September 1973.

EXTREMES, 1972-73.--Sediment concentrations: Maximum daily, 4,000 mg/l May 14; minimum daily, 65 mg/l Oct. 3.
Sediment loads: Maximum daily, 1,430 tons (1,300 t) May 26; minimum daily, 0.97 tons (0.88 t) Oct. 3.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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...	8.3	17	40	63	73	93	220	3.8	671	0	550	420
NOV.												
10...	17	18	30	70	85	81	170	3.1	620	0	509	350
DEC.												
07...	17	17	50	70	80	75	160	3.1	637	0	522	320
JAN.												
16...	11	19	70	40	79	84	200	3.0	697	4	578	390
FEB.												
08...	15	19	40	30	80	77	180	3.1	658	0	540	350
MAR.												
08...	18	16	80	30	81	77	160	3.4	634	0	520	340
APR.												
05...	13	15	60	50	84	90	180	2.6	635	0	521	420
MAY												
24...	82	18	30	10	79	66	120	3.5	523	0	429	290
JUNE												
14...	43	16	30	40	89	90	190	3.1	664	0	545	400
JULY												
12...	26	20	40	70	100	110	210	3.4	750	0	615	500
AUG.												
30...	51	20	30	20	86	78	150	2.5	554	0	454	370

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO, PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	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...	25	1.0	.00	.03	1180	26.4	560	15	4.0	1691	8.1	9.5
NOV.												
10...	17	.8	.26	.01	1030	47.3	550	37	3.2	1510	8.0	2.5
DEC.												
07...	16	.9	.39	.01	987	45.3	510	0	3.1	1450	7.7	.0
JAN.												
16...	16	.8	.41	.04	1140	33.9	540	0	3.7	1610	8.4	.0
FEB.												
08...	13	.8	.50	.05	1050	42.5	520	0	3.4	1510	8.2	.0
MAR.												
08...	15	.8	.42	.04	1010	49.1	520	0	3.1	1480	8.0	1.0
APR.												
05...	14	.6	.28	.03	1120	39.3	580	59	3.3	1350	7.9	6.5
MAY												
24...	12	.6	.87	.05	851	188	470	40	2.4	1230	8.0	10.0
JUNE												
14...	13	.9	.44	.02	1130	131	590	48	3.4	1630	8.1	11.5
JULY												
12...	17	.8	.31	.05	1330	93.4	700	87	3.4	1910	8.2	14.0
AUG.												
30...	12	.4	.70	.02	995	137	540	81	2.8	1440	8.0	13.5

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

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	6.0	147	2.4	19	200	12	18	180	8.7
2	6.0	81	1.3	18	180	8.7	19	200	10
3	5.5	65	.97	17	160	7.3	17	160	7.3
4	6.9	110	2.0	18	180	8.7	17	160	7.3
5	7.7	130	2.7	19	200	10	19	200	10
6	9.4	95	2.4	19	200	10	17	160	7.3
7	8.6	131	3.0	18	180	8.7	17	160	7.3
8	9.0	137	3.3	18	180	8.7	19	200	10
9	9.0	134	3.3	18	180	8.7	16	140	6.0
10	6.3	138	2.3	17	160	7.3	11	130	3.9
11	5.1	120	1.7	19	200	10	11	130	3.9
12	3.7	100	1.0	18	180	8.7	11	130	3.9
13	3.9	129	1.4	18	180	8.7	11	130	3.9
14	4.3	95	1.1	17	160	7.3	10	120	3.2
15	5.5	110	1.6	18	180	8.7	11	130	3.9
16	6.0	200	3.2	16	180	7.8	11	130	3.9
17	5.7	252	3.9	16	180	7.8	12	130	4.2
18	5.7	220	3.4	17	160	7.3	12	130	4.2
19	5.7	190	2.9	18	180	8.7	11	130	3.9
20	5.5	170	2.5	18	180	8.7	12	130	4.2
21	5.5	145	2.2	18	180	8.7	11	130	3.9
22	5.7	150	2.3	18	180	8.7	12	130	4.2
23	5.7	150	2.3	18	180	8.7	12	130	4.2
24	5.7	150	2.3	19	200	10	11	130	3.9
25	5.7	155	2.4	19	200	10	11	130	3.9
26	5.5	175	2.6	18	180	8.7	10	120	3.2
27	6.3	275	4.7	19	200	10	11	130	3.9
28	7.7	265	5.5	17	160	7.3	11	130	3.9
29	9.0	268	8.1	16	140	6.0	11	130	3.9
30	12	280	11	19	200	10	10	120	3.2
31	17	292	14	--	--	--	10	120	3.2

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	9.0	120	2.9	11	130	3.9	27	380	35
2	9.0	120	2.9	11	130	3.9	27	300	22
3	10	120	3.2	12	130	4.2	22	230	14
4	11	130	3.9	14	140	5.3	21	210	12
5	10	120	3.2	15	150	6.1	21	210	12
6	10	120	3.2	14	140	5.3	19	200	10
7	11	130	3.9	15	150	6.1	18	180	8.7
8	11	130	3.9	15	140	5.7	18	180	8.7
9	11	130	3.9	15	140	5.7	19	200	10
10	11	130	3.9	15	140	5.7	19	200	10
11	10	120	3.2	16	150	6.5	20	210	11
12	11	130	3.9	16	150	6.5	25	370	29
13	12	130	4.2	15	140	5.7	27	420	37
14	11	130	3.9	15	140	5.7	21	359	20
15	11	130	3.9	14	140	5.3	20	294	16
16	11	130	3.9	14	140	5.3	21	309	18
17	11	130	3.9	13	140	4.9	28	430	49
18	10	120	3.2	12	130	4.2	31	252	22
19	11	130	3.9	12	130	4.2	28	300	23
20	11	130	3.9	13	140	4.9	31	450	47
21	9.0	120	2.9	13	140	4.9	35	689	65
22	9.0	120	2.9	15	150	6.1	26	400	28
23	9.0	120	2.9	21	250	17	24	386	25
24	9.0	120	2.9	24	280	23	22	332	20
25	10	120	3.2	19	200	10	22	347	21
26	11	130	3.9	19	200	10	22	370	22
27	11	130	3.9	20	220	12	22	399	24
28	9.0	120	2.9	22	230	14	21	276	16
29	10	120	3.2	--	--	--	21	270	15
30	11	130	3.9	--	--	--	20	260	14
31	12	130	4.2	--	--	--	19	202	10

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

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	19	189	9.7	46	2000	430	61	1000	165
2	19	169	8.7	41	1530	169	73	1800	480
3	15	120	4.9	35	1070	101	69	1200	250
4	15	86	3.5	33	550	49	75	780	158
5	13	82	2.9	37	700	70	76	859	176
6	11	80	2.4	49	945	187	69	705	131
7	12	110	3.6	60	1900	308	65	649	114
8	14	120	4.5	57	1500	231	65	600	105
9	14	120	4.5	54	1000	146	61	542	89
10	15	130	5.3	63	2500	425	59	505	80
11	12	110	3.6	76	3500	1000	58	450	70
12	11	110	3.3	82	2800	770	51	417	57
13	11	110	3.3	89	3400	1100	44	450	53
14	13	120	4.2	91	4000	1200	44	518	62
15	20	250	18	85	2480	569	45	410	50
16	18	160	7.8	86	2800	650	38	462	47
17	17	150	6.9	88	3050	725	36	440	43
18	19	190	9.7	90	3200	778	34	421	39
19	21	210	12	83	1800	403	33	421	38
20	18	170	8.3	93	2240	562	33	421	38
21	10	110	3.0	89	2300	553	33	421	38
22	9.4	100	2.5	83	2210	495	32	421	36
23	11	110	3.3	82	1950	432	33	421	38
24	12	110	3.6	79	1330	284	33	421	38
25	17	140	6.4	83	1470	329	33	421	38
26	21	210	15	96	3800	1430	29	406	32
27	19	190	9.7	95	3000	770	28	279	21
28	21	210	12	84	2400	544	28	307	23
29	22	220	13	81	2000	437	28	320	24
30	32	650	78	73	1500	296	26	331	23
31	--	--	--	67	1300	235	--	--	--

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	26	253	18	45	646	78	51	461	63
2	25	270	18	43	596	69	52	434	61
3	26	213	15	43	568	66	52	381	53
4	26	251	18	44	520	62	51	365	50
5	26	232	16	46	500	62	50	357	48
6	23	263	16	47	460	58	49	322	43
7	21	206	12	45	420	51	50	303	41
8	21	218	12	43	469	54	49	309	41
9	21	200	11	42	498	56	48	302	39
10	23	243	15	42	510	58	46	377	47
11	25	232	16	42	494	56	46	317	39
12	26	243	17	42	500	57	46	278	35
13	30	498	46	41	663	73	42	260	29
14	32	354	31	42	500	57	36	242	24
15	31	475	40	42	500	57	35	254	24
16	34	399	37	42	500	57	38	243	25
17	34	381	35	48	1300	190	39	230	24
18	34	504	46	51	1040	143	40	220	24
19	45	536	65	58	668	121	39	240	25
20	46	545	68	56	637	96	37	258	26
21	46	631	78	58	603	94	35	212	20
22	47	480	61	61	625	103	30	229	19
23	45	559	68	64	700	130	31	241	20
24	47	833	121	58	490	77	32	230	20
25	53	945	169	57	512	79	34	240	22
26	60	770	156	55	390	58	36	260	25
27	58	629	99	53	357	51	38	280	29
28	55	610	91	53	380	54	35	210	20
29	54	596	87	52	410	58	35	210	20
30	54	498	73	51	438	60	35	210	20
31	47	545	69	52	460	65	--	--	--

09306210 PICEANCE CREEK NEAR WHITE RIVER, COLO.

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

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

PERIOD OF RECORD.--Chemical analyses: December 1970 to September 1973.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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...	7.4	17	70	45	68	81	240	3.1	715	0	586	430
NOV.												
10...	17	18	60	70	81	83	180	3.3	650	0	533	350
DEC.												
07...	17	18	70	50	79	78	180	2.9	668	0	548	350
JAN.												
16...	11	18	80	50	79	88	220	3.4	729	4	605	410
FEB.												
08...	15	19	60	30	77	77	190	3.4	682	0	559	350
MAR.												
08...	18	16	50	30	79	81	190	3.8	678	0	556	370
APR.												
05...	13	15	60	40	81	90	210	2.7	674	0	553	450
MAY												
24...	91	18	30	10	76	67	140	3.7	546	0	448	300
JUNE												
14...	45	19	30	20	86	91	210	3.3	685	0	562	420
JULY												
12...	25	20	70	40	94	110	250	3.7	802	0	658	570
AUG.												
30...	52	20	30	20	85	74	160	2.8	561	0	460	410

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	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)
OCT.												
05...	20	1.0	.00	.04	1210	24.2	500	0	4.7	1784	8.2	8.5
NOV.												
10...	18	.7	.25	.02	1060	48.7	540	11	3.4	1570	8.2	1.5
DEC.												
07...	18	1.0	.46	.03	1060	48.7	520	0	3.4	1560	7.7	.0
JAN.												
16...	19	.8	.48	.04	1200	35.6	560	0	4.0	1700	8.4	.0
FEB.												
08...	14	.9	.52	.06	1070	43.3	510	0	3.7	1570	8.2	.0
MAR.												
08...	16	.8	.38	.05	1090	53.0	530	0	3.6	1560	8.2	1.0
APR.												
05...	17	.7	.16	.03	1200	42.1	570	20	3.8	1650	8.0	3.5
MAY												
24...	14	.7	.77	.06	892	219	470	18	2.8	1310	8.0	10.0
JUNE												
14...	14	.6	.52	.05	1180	143	590	28	3.8	1680	8.2	12.0
JULY												
12...	19	.8	.26	.05	1460	98.5	690	30	4.2	2040	8.2	14.0
AUG.												
30...	13	.4	.65	.02	1040	146	520	57	3.1	1450	8.1	13.0

09306222 PICEANCE CREEK AT WHITE RIVER, COLO.

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

DRAINAGE AREA.--629 mi² (1,629 km²).

PERIOD OF RECORD.--Chemical analyses: December 1970 to September 1973.
Water temperatures: January 1971 to September 1973.

EXTREMES, 1972-73.--Specific conductance: Maximum daily, 5,800 micromhos Feb. 15; minimum daily, 1,330 micromhos May 11, 12, 13, 14.
Water temperatures: Maximum, 21°C Oct. 3, July 26, 27, 28; minimum, freezing point on many days during November 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 1972 TO SEPTEMBER 1973

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...	8.6	14	60	8	34	60	810	4.4	1540	143	1500	510
NOV.												
10...	20	17	70	50	68	84	360	3.6	1050	15	886	380
DEC.												
07...	18	18	70	50	59	92	690	3.9	1790	0	1470	450
JAN.												
16...	12	17	120	40	71	79	480	4.1	1210	55	1080	400
FEB.												
08...	16	18	60	30	76	74	200	3.1	708	0	581	350
MAR.												
06...	27	15	60	20	34	79	400	6.2	1080	0	886	370
APR.												
05...	18	15	40	0	67	88	580	3.0	1020	0	837	450
MAY												
24...	75	17	50	10	69	66	210	4.0	701	0	575	300
JUNE												
14...	47	19	50	20	68	88	390	4.5	1040	0	853	460
JULY												
12...	19	16	150	20	58	100	580	4.8	1460	0	1200	580
17...	42	20	100	10	74	110	460	4.5	1070	0	878	580
27...	63	20	120	20	77	89	290	3.3	802	0	658	420
AUG.												
30...	49	20	40	10	68	82	300	3.4	788	0	646	440

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	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...	110	7.0	.01	.08	2470	57.4	410	0	17	3531	8.7	8.5
NOV.												
10...	50	1.2	.30	.03	1500	81.0	520	0	6.9	2240	8.5	.0
DEC.												
07...	120	2.2	.55	.08	2320	113	530	0	13	3360	7.9	.0
JAN.												
16...	69	1.6	.50	.07	1770	57.3	500	0	9.3	2570	8.4	.0
FEB.												
08...	16	.8	.58	.05	1090	47.1	490	0	3.9	1640	8.2	.0
MAR.												
06...	53	1.4	.45	.06	1490	109	410	0	8.6	2200	8.1	5.0
APR.												
05...	55	1.3	.29	.06	1560	75.8	530	0	7.2	2210	8.1	1.0
MAY												
24...	27	.8	.65	.03	1040	211	440	0	4.3	1460	8.0	12.0
JUNE												
14...	41	1.3	.40	.09	1590	202	530	0	7.4	2280	8.3	14.5
JULY												
12...	75	1.7	.13	.06	2140	110	560	0	11	3070	8.3	15.0
17...	46	1.3	.27	.05	1830	208	640	0	7.9	2500	8.2	20.0
27...	31	.8	.79	.03	1330	226	560	0	5.3	1900	8.1	17.0
AUG.												
30...	35	.9	.71	.05	1340	177	510	0	5.8	1860	8.1	13.0

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5000	2000	2100	3300	3200	2200	3000	1900	2000	3000	---	---
2	4750	3000	2300	3300	3150	1900	3000	1800	2000	3100	---	---
3	4250	3000	2450	3400	3150	2200	2800	1800	2050	3000	---	---
4	4200	2750	2400	3400	3100	2300	2400	1700	2100	3000	2420	---
5	4000	3000	3000	3400	3100	2850	2600	1790	2100	3250	2280	---
6	4000	3000	3200	3300	3000	2800	3500	1850	2300	3100	2300	---
7	4000	3250	2400	3400	2800	3000	3000	1600	2520	3500	2300	---
8	3750	3000	2400	3400	2700	2900	3000	1450	2280	3250	2300	---
9	3500	3250	2700	3300	2800	2950	2950	1400	2300	3500	2300	---
10	3000	3500	2700	3300	2700	3000	3000	1380	2300	3500	2300	---
11	3750	3500	3500	3200	2900	2900	3100	1330	2350	3300	2300	---
12	3750	2750	3000	3300	4100	2900	3400	1330	2480	3000	2300	---
13	4000	2700	3000	3200	5000	2800	3500	1330	2600	3250	2300	---
14	4000	2700	3000	3200	5200	3000	3400	1330	2650	3500	2300	---
15	3750	2950	3000	3200	5800	2950	3100	1380	2700	3500	2300	---
16	4200	2950	3000	3300	5600	2950	3000	1400	2850	3500	2300	---
17	4000	2800	3000	3250	5500	2900	2900	1400	2900	3500	2300	---
18	4000	2700	3000	3200	4000	2000	2700	1500	2900	3250	2300	---
19	4250	2800	3000	3300	3500	2800	2700	1500	2780	2900	2300	---
20	4000	2600	3000	3300	3800	2600	2600	1550	2800	2400	2250	---
21	4500	2600	3000	3200	4600	2600	2800	1600	2800	2800	2250	---
22	3750	2550	3100	3200	3500	2600	3000	1700	2800	2800	---	---
23	4000	2400	3200	3200	3400	2900	3500	1750	2900	2400	---	---
24	3750	2000	3500	3200	3300	3000	3600	1800	2850	2400	---	---
25	3000	2500	3750	3300	2000	3100	3100	1700	2850	2400	---	---
26	3250	2600	4000	3300	2200	3100	3000	1750	2800	2400	---	1600
27	3000	2550	4100	3200	2700	2900	3000	1800	2800	2300	---	1600
28	3250	2800	4000	3200	2400	3000	2700	1800	3000	2200	---	2000
29	3200	2350	4200	3200	---	2900	2800	1950	3000	2280	---	2000
30	3200	2000	4100	3250	---	2950	2000	2000	3000	2300	---	2080
31	1750	---	4200	3200	---	3000	---	2000	---	2300	---	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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

09306500 WHITE RIVER NEAR WATSON, UTAH

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

DRAINAGE AREA.--4,020 mi^2 (10,400 km^2), approximately (at gaging station).

PERIOD OF RECORD.--Chemical analyses: December 1950 to September 1973.
Water temperatures: December 1950 to September 1973.

EXTREMES, 1972-73.
Period of record.--Specific conductance (1950-72): Maximum daily, 4,450 micromhos Aug. 4, 1955; minimum daily, 295 micromhos June 26, 1971.
Water temperatures (1950-72): Maximum, 31°C Aug. 8, 1954; minimum, freezing point on many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
OCT.												
11...	452	19	67	21	51	1.7	201	0	165	150	35	.3
NOV.												
03...	456	15	75	23	55	1.5	222	0	182	150	32	.4
DEC.												
14...	239	15	68	25	73	2.4	215	0	176	170	54	.3
JAN.												
15...	548	18	72	23	62	1.6	214	0	176	150	42	.5
FEB.												
21...	296	17	76	24	100	2.6	314	0	258	170	65	.4
MAR.												
16...	900	13	69	25	150	4.1	243	0	199	190	140	.4
APR.												
16...	493	13	77	34	94	2.9	248	0	203	260	65	.3
MAY												
04...	700	14	67	26	62	2.4	224	0	184	180	35	.4
JUNE												
14...	3470	11	26	11	20	1.3	148	0	121	51	11	.2
JULY												
05...	1230	14	52	17	31	1.4	187	0	153	84	15	.3
AUG.												
07...	548	15	75	30	110	3.8	262	0	215	200	94	.4
SEP.												
07...	418	14	64	32	88	2.3	254	0	208	190	61	.3

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)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED BORON (B) (UG/L)
OCT.												
11...	.04	.01	444	.60	542	250	89	1.4	697	8.1	13.0	70
NOV.												
03...	.03	.02	461	.63	568	280	100	1.4	729	7.5	3.0	70
DEC.												
14...	.04	.01	514	.70	332	270	96	1.9	825	7.4	.0	90
JAN.												
15...	.23	.08	476	.65	704	270	99	1.6	703	7.7	.0	50
FEB.												
21...	.22	.03	611	.83	488	290	31	2.6	978	8.1	.0	90
MAR.												
16...	.22	.08	715	.97	1730	280	76	3.9	1160	8.1	.0	140
APR.												
16...	.11	.02	674	.92	897	330	130	2.4	1000	8.3	9.5	130
MAY												
04...	.24	.05	499	.68	943	270	91	1.6	774	8.2	7.5	90
JUNE												
14...	.24	.00	206	.28	1930	110	0	.8	358	7.1	15.0	10
JULY												
05...	.04	.02	307	.42	1020	200	46	1.0	499	7.9	23.0	50
AUG.												
07...	.06	.01	658	.89	974	310	96	2.7	1030	7.8	22.5	190
SEP.												
07...	.02	.03	577	.78	651	290	83	2.2	904	8.2	25.0	110

09306500 WHITE RIVER NEAR WATSON, UTAH--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	670	795	---	860	840	1120	860	508	458	860	925
2	670	650	770	710	885	860	1120	785	501	473	830	860
3	670	730	755	740	---	850	1070	740	510	490	870	1360
4	680	830	755	870	---	---	1040	790	504	520	960	945
5	690	730	835	820	865	---	1020	770	519	521	950	934
6	935	840	850	890	855	---	1110	740	555	---	1020	920
7	710	760	930	---	845	---	1100	700	573	548	1100	923
8	740	855	900	850	790	---	1020	615	579	---	1100	919
9	735	860	910	800	780	---	985	640	535	688	880	905
10	745	845	960	810	815	---	1040	650	467	716	890	970
11	730	---	1010	825	815	---	1050	640	440	678	820	934
12	730	---	1020	795	850	---	1130	---	411	880	870	945
13	725	800	980	765	845	---	1060	---	403	1120	860	962
14	760	760	910	760	860	---	1080	505	340	1170	870	938
15	900	775	800	800	850	1140	1100	495	408	918	880	823
16	760	770	890	770	835	1070	1030	---	438	920	870	828
17	750	770	---	755	---	---	980	465	404	910	880	828
18	735	790	915	745	---	---	1020	460	435	878	---	829
19	670	785	870	775	970	---	1030	430	431	925	---	802
20	660	780	855	---	990	---	1040	430	473	1010	910	816
21	---	770	890	---	1020	950	1020	410	500	970	880	851
22	---	755	790	790	995	1010	980	420	523	872	1160	818
23	---	---	---	800	1060	970	1000	410	---	870	980	866
24	680	795	---	825	1050	---	1040	400	---	860	1030	858
25	690	690	720	840	---	950	1010	405	462	862	960	858
26	690	800	720	985	950	995	990	---	---	860	920	902
27	680	745	725	---	865	940	970	---	463	872	910	861
28	700	710	750	---	890	985	---	---	446	860	910	873
29	680	650	---	870	---	---	---	475	435	878	920	837
30	715	770	---	825	---	1030	1070	490	435	945	890	840
31	725	---	---	830	---	---	---	495	---	878	920	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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

09341200 WOLF CREEK NEAR PAGOSA SPRINGS, COLO.

LOCATION.--Lat 37°26'47", long 106°53'00", Mineral County, at gaging station, on right bank 0.3 mi (0.5 km) upstream from Fall Creek and 14 mi (22 km) northeast of Pagosa Springs.

DRAINAGE AREA.--14.0 mi^2 (36.3 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1973.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
APR.												
04...	4.0	19	30	0	7.9	1.0	4.9	.9	33	0	27	8.0
17...	8.9	19	30	0	8.7	1.1	4.6	1.0	34	0	28	6.5
MAY												
02...	20	18	30	0	7.9	.9	3.6	.9	30	0	25	6.7
15...	84	16	110	0	6.1	.6	2.5	.7	22	0	18	5.4
JUNE												
05...	110	17	40	0	5.1	.6	2.5	.8	22	0	18	5.1
13...	337	14	70	10	4.2	.4	2.3	.8	17	0	13	3.6
JULY												
09...	130	14	30	0	3.8	.3	1.8	.8	20	0	16	3.0
AUG.												
07...	21	14	30	0	4.6	.5	2.4	1.0	24	0	19	2.9
SEP.												
05...	10	16	30	30	8.6	.4	2.3	1.1	24	0	20	3.7

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	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)
APR.												
04...	.9	.0	.07	.02	59	.64	24	0	.4	72	7.4	1.0
17...	.5	.1	.06	.04	59	1.42	26	0	.4	76	7.8	3.0
MAY												
02...	.6	.1	.03	.02	54	2.92	23	0	.3	62	7.6	8.0
15...	1.9	.0	.04	.05	44	9.98	18	0	.5	48	6.7	3.0
JUNE												
05...	.7	.1	.02	.01	43	12.8	15	0	.3	43	7.5	2.0
13...	.5	.1	.00	.00	34	30.9	12	0	.3	35	8.1	4.0
JULY												
09...	.2	.2	.00	.01	34	11.9	11	0	.2	28	7.8	12.0
AUG.												
07...	.1	.0	.00	.01	37	2.10	14	0	.3	39	7.6	8.0
SEP.												
05...	.7	.1	.00	.01	45	1.21	25	3	.2	46	7.7	6.0

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

SILVER ANALYSIS, APRIL 1973 TO SEPTEMBER 1973

DATE	DIS-CHARGE (CFS)	TOTAL SILVER (AG) (UG/L)
APR.		
04...	4.0	0.30
17...	8.9	.03
JUNE		
05...	110	.06
13...	337	<.03
JULY		
09...	130	<.03
AUG.		
07...	21	<.03
SEP.		
05...	10	.03

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
APR.												
04...	0830	4.0	1.0	3	.03	--	--	--	--	--	--	--
17...	1130	8.9	3.0	19	.46	--	--	--	--	--	--	--
MAY												
02...	1550	20	8.0	27	1.5	--	--	--	--	--	--	--
15...	0850	84	3.0	29	6.6	--	--	--	--	--	--	--
JUNE												
05...	0900	110	2.0	20	5.9	--	--	--	--	--	--	--
13...	0830	337	4.0	276	251	10	17	58	75	86	98	100
JULY												
09...	1400	130	12.0	12	4.2	--	--	--	--	--	--	--
AUG.												
07...	0930	21	8.0	67	3.8	--	--	--	--	--	--	--
SEP.												
05...	0930	10	6.0	3	.08	--	--	--	--	--	--	--

09347200 MIDDLE FORK PIEDRA RIVER NEAR PAGOSA SPRINGS, COLO.

LOCATION.--Lat 37°29'12", long 107°09'46", in SW¼NW¼ sec.35, T.38 N., R.3 W., Hinsdale County, at gaging station, on right bank 0.6 mi (1.0 km) upstream from headgate on Toner-Taylor ditch, 4.1 mi (6.6 km) northeast of Piedra guard station, and 17 mi (27 km) northwest of Pagosa Springs.

DRAINAGE AREA.--32.2 mi^2 (83.4 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1973.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
APR.												
09...	13	20	50	0	8.4	1.6	5.0	1.1	37	0	30	8.2
17...	17	20	30	0	9.0	1.8	5.4	1.1	40	0	33	7.6
MAY												
02...	47	21	30	0	9.1	1.7	5.0	.9	39	0	32	8.2
15...	197	20	110	0	8.6	1.5	4.1	1.0	32	0	26	7.0
JUNE												
05...	172	19	50	0	6.2	1.2	3.5	.8	26	0	21	6.6
13...	396	16	60	0	4.8	.6	2.3	.7	23	0	19	5.3
JULY												
09...	161	15	60	0	4.4	.6	2.1	.7	22	0	18	3.8
AUG.												
07...	25	19	50	0	6.4	1.0	3.8	1.2	32	0	26	5.8
SEP.												
05...	16	21	40	30	7.1	1.2	3.8	1.4	34	0	28	5.0

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	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)
APR.												
09...	1.2	.1	.03	.06	64	2.25	28	0	.4	80	7.3	3.0
17...	.8	.1	.03	.03	66	3.03	30	0	.4	86	7.6	4.0
MAY												
02...	.7	.1	.13	.04	67	8.52	30	0	.4	83	7.5	9.0
15...	6.5	.0	.05	.06	65	34.6	28	1	.3	94	6.9	7.0
JUNE												
05...	.9	.0	.01	.02	51	23.7	20	0	.3	57	7.5	10.0
13...	.1	.1	.01	.01	41	43.8	14	0	.3	40	8.2	5.0
JULY												
09...	1.5	.2	.04	.01	39	17.0	15	0	.3	36	8.1	9.0
AUG.												
07...	.7	.0	.00	.03	54	3.64	20	0	.4	61	7.0	13.0
SEP.												
05...	.8	.1	.00	.05	57	2.46	23	0	.3	67	7.7	14.0

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

SILVER ANALYSIS, APRIL 1973 TO SEPTEMBER 1973

DATE	DIS-CHARGE (CFS)	TOTAL SILVER (AG) (UG/L)
APR.		
09...	13	<0.03
17...	17	<.03
JUNE		
05...	172	.08
13...	396	.03
JULY		
09...	161	<.03
AUG.		
07...	25	<.03
SEP.		
05...	16	.07

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM
APR.											
09...	1100	13	3.0	8	.28	--	--	--	--	--	--
17...	0930	17	4.0	5	.23	--	--	--	--	--	--
MAY											
02...	1125	47	9.0	10	1.3	--	--	--	--	--	--
15...	1230	197	7.0	37	20	--	--	--	--	--	--
JUNE											
05...	1700	172	10.0	16	7.4	--	--	--	--	--	--
13...	1000	396	5.0	142	152	6	12	47	61	82	100
JULY											
09...	1030	161	9.0	12	5.2	--	--	--	--	--	--
AUG.											
07...	1300	25	13.0	7	.47	--	--	--	--	--	--
SEP.											
05...	1240	16	14.0	2	.09	--	--	--	--	--	--

09352900 VALLECITO CREEK NEAR BAYFIELD, COLO.
(Hydrologic bench-mark station)

LOCATION.--Lat 37°28'39", long 107°32'35", in NE¼NW¼ sec.16, T.37 N., R.6 W., La Plata County, at gaging station, 60 ft (18 m) upstream from Fall Creek, 0.8 mi (1.3 km) downstream from Bear Creek, 6.7 mi (10.8 km) north of Vallecito Dam, and 18 mi (29 km) north of Bayfield.

DRAINAGE AREA.--72.1 mi² (186.7 km²).

PERIOD OF RECORD.--Chemical analyses: October 1963 to September 1968, August 1970 to September 1973. Water temperatures: November 1962 to September 1973.

EXTREMES, 1972-73.--Water temperatures: Maximum, 18°C Aug. 16, 17, 19; minimum, freezing point on many days during December to February.
Period of record.--Water temperatures: Maximum, 18°C July 15, 1972, Aug. 16, 17, 19, 1973; minimum, freezing point on many days during winter months.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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.												
04...	48	3.6	30	1	9.4	2.2	2.0	.7	25	0	21	10
NOV.												
08...	112	3.9	70	20	10	2.1	1.1	.6	36	0	30	11
29...	46	4.3	20	10	12	2.5	1.1	1.0	41	0	34	9.7
JAN.												
09...	32	4.3	9	10	12	2.6	1.3	.6	41	0	34	11
31...	29	4.2	50	0	13	2.6	2.2	.6	44	0	36	7.1
FEB.												
28...	23	4.6	30	0	14	3.6	3.1	.8	45	0	37	14
MAR.												
28...	31	4.2	20	0	12	2.4	1.3	.7	40	0	33	10
APR.												
16...	39	4.4	9	0	12	2.6	1.4	.7	42	0	34	11
MAY												
03...	127	4.4	30	0	12	2.0	.9	.6	36	0	30	7.7
14...	632	3.8	50	10	8.6	1.5	.7	1.1	29	0	24	6.9
JUNE												
06...	392	3.7	20	10	10	1.9	.9	.5	41	0	34	7.6
14...	1130	2.9	60	20	7.4	1.3	1.0	.5	29	0	24	6.0
JULY												
10...	600	2.3	40	0	4.6	.9	1.4	.4	19	0	16	4.3
AUG.												
08...	180	2.9	20	0	5.5	.8	.7	.8	20	0	16	5.2
SEP.												
06...	88	3.5	20	30	8.1	1.6	1.1	1.0	28	0	23	8.0

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	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)
OCT.												
04...	.9	.3	.09	.00	42	5.44	33	12	.2	65	7.5	9.0
NOV.												
08...	1.3	.2	.11	.00	48	14.5	34	4	.1	101	8.5	2.0
29...	1.0	.3	.11	.00	53	6.58	40	7	.1	87	7.5	1.0
JAN.												
09...	.8	.3	.13	.00	54	4.67	41	7	.1	101	7.9	1.0
31...	.7	.2	.22	.00	53	4.15	43	7	.1	91	7.7	.0
FEB.												
28...	1.5	.4	.10	.04	65	4.04	50	13	.2	94	7.9	1.0
MAR.												
28...	1.2	.2	.16	.01	52	4.35	40	7	.1	87	7.2	3.0
APR.												
16...	1.2	.1	.11	.00	55	5.79	41	6	.1	93	7.5	4.0
MAY												
03...	.3	.2	.06	.01	46	15.8	38	9	.1	77	7.5	4.0
14...	1.0	.2	.19	.00	39	66.6	28	4	.1	63	7.6	6.0
JUNE												
06...	.6	.2	.02	.00	46	48.7	33	0	.1	72	7.3	3.0
14...	.1	.2	.01	.00	34	104	24	0	.1	53	7.2	4.0
JULY												
10...	.7	.3	.04	.00	24	38.9	15	0	.2	33	7.8	8.0
AUG.												
08...	1.5	.2	.07	.00	28	13.6	17	1	.1	43	6.6	11.0
SEP.												
06...	2.2	.0	.04	.00	40	9.50	27	4	.1	62	8.1	8.0

09352900 VALLECITO CREEK NEAR BAYFIELD, COLO.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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

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

09352900 VALLECITO CREEK NEAR BAYFIELD, COLO.--Continued

SILVER ANALYSIS, MARCH 1973 TO SEPTEMBER 1973

DATE	DIS-CHARGE (CFS)	TOTAL SILVER (AG) (UG/L)
MAR.		
28...	31	0.10
APR.		
16...	39	.08
JUNE		
06...	392	.03
14...	1130	.55
JULY		
10...	600	<.03
AUG.		
08...	180	<.03
SEP.		
06...	88	.04

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)
NOV.							
08...	.7	<.4	2.3	<.4	1.9	<.4	.40

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1972 to SEPTEMBER 1973

DATE	TIME	DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT.					
04...	0830	48	9.0	1	.13
22...	1000	322	4.0	6	5.2
NOV.					
08...	0915	112	2.0	2	.61
29...	0900	46	1.0	19	2.4
JAN.					
09...	0940	32	1.0	4	.35
31...	0930	29	.0	2	.16
FEB.					
28...	0845	23	1.0	1	.06
MAR.					
28...	0910	51	3.0	2	.17
APR.					
16...	1435	59	4.0	1	.11
MAY					
03...	0845	127	4.0	2	.69
14...	1130	632	6.0	11	19
JUNE					
04...	1610	417	7.0	4	4.5
11...	1140	1040	4.0	50	140
JULY					
10...	0800	600	8.0	4	6.5
31...	1030	180	9.0	2	.97
SEP.					
05...	1410	90	10.0	3	.73

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 (300 m) downstream from bridge on State Highway 110, 0.3 mi (0.5 km) southwest of Howardsville, and 0.4 mi (0.6 km) downstream from Cunningham Creek.

DRAINAGE AREA.--55.9 mi^2 (144.8 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1973.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
APR.												
06...	15	7.4	20	420	58	3.1	3.0	.8	44	0	36	130
16...	16	7.5	20	450	58	3.2	3.8	.9	36	0	30	130
MAY												
03...	26	10	170	660	52	3.2	4.0	.5	2	0	2	150
14...	235	6.6	350	400	24	1.7	1.8	.5	26	0	21	57
JUNE												
04...	217	6.1	30	360	28	1.6	1.4	.4	30	0	25	49
13...	749	4.6	40	480	17	1.1	1.0	.4	22	0	18	32
JULY												
11...	475	4.5	20	470	19	1.4	.8	.4	28	0	23	36
AUG.												
01...	145	5.5	50	290	27	1.9	2.0	1.3	35	0	29	56
SEP.												
04...	120	6.7	20	270	40	2.2	2.5	.9	44	0	36	83

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	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)
APR.												
06...	.7	.6	.10	.00	226	9.15	160	120	.1	354	7.0	6.0
16...	.8	.6	.13	.00	224	9.68	160	130	.1	354	7.2	6.0
MAY												
03...	1.2	.4	.14	.00	224	15.8	140	140	.1	336	6.1	7.0
14...	.8	.5	.25	.00	108	68.5	67	46	.1	178	7.0	5.0
JUNE												
04...	1.6	.5	.16	.00	104	60.9	77	52	.1	173	8.1	5.0
13...	.6	.5	.14	.00	69	140	47	29	.1	116	8.3	7.0
JULY												
11...	.1	.5	.10	.00	77	98.6	53	30	.0	127	7.5	7.0
AUG.												
01...	.6	.5	.07	.00	113	44.3	75	47	.1	184	7.9	10.0
SEP.												
04...	.8	.5	.10	.06	159	51.5	110	73	.1	250	7.2	12.0

09357500 ANIMAS RIVER AT HOWARDSVILLE, COLO.--Continued

SILVER ANALYSIS, APRIL 1973 TO SEPTEMBER 1973

DATE	DIS-CHARGE (CFS)	TOTAL SILVER (AG) (UG/L)
APR.		
06...	15	<0.03
16...	16	.03
JUNE		
04...	217	.04
13...	749	.22
JULY		
11...	475	<.03
AUG.		
01...	145	<.03
SEP.		
04...	120	.03

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM
APR.								
06...	1605	15	6.0	3	.12	--	--	--
16...	1105	16	6.0	3	.13	--	--	--
MAY								
03...	0930	26	7.0	2	.14	--	--	--
14...	1130	235	5.0	20	13	--	--	--
JUNE								
04...	1100	217	5.0	7	4.1	--	--	--
13...	1650	749	7.0	119	241	65	83	100
JULY								
11...	0915	475	7.0	7	9.0	--	--	--
AUG.								
01...	1200	145	10.0	1	.39	--	--	--
SEP.								
04...	1125	120	12.0	2	.65	--	--	--

09358900 MINERAL CREEK ABOVE SILVERTON, COLO.

LOCATION.--Lat 37°51'04", long 107°43'31", San Juan County, at gaging station, on right bank 200 ft (61 m) upstream from bridge, 0.6 mi (1.0 km) upstream from Middle Fork, and 4.3 mi (6.9 km) northwest of Silverton.

DRAINAGE AREA.--11.0 mi^2 (28.5 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1973.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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 SUDIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
APR.												
06...	3.5	12	150	670	74	4.0	5.4	.6	4	0	3	220
16...	3.4	12	90	690	78	4.4	5.9	.7	5	0	2	210
MAY												
03...	9.4	7.1	30	310	50	2.8	2.3	.4	39	0	32	110
14...	55	5.3	50	470	27	1.5	1.2	.6	3	0	2	71
JUNE												
04...	40	8.4	580	400	23	1.9	1.9	.4	2	0	2	73
13...	120	4.7	170	180	15	1.1	1.4	.3	5	0	4	36
JULY												
11...	120	4.2	50	110	12	1.1	.8	.7	15	0	12	30
AUG.												
01...	28	6.2	100	180	22	1.8	2.5	.7	14	0	11	58
SEP.												
04...	11	8.1	60	280	35	2.3	2.6	.7	18	0	15	84

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SUDIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
APR.												
06...	.9	.4	.07	.00	320	3.02	200	200	.2	455	6.0	3.0
16...	1.0	.4	.15	.00	315	2.89	210	210	.2	478	6.0	1.0
MAY												
03...	.6	.6	.18	.00	194	4.97	140	100	.1	309	6.6	1.0
14...	.8	.3	.42	.00	112	16.6	74	71	.1	170	6.7	7.0
JUNE												
04...	1.4	.2	.09	.01	113	12.2	65	64	.1	179	7.6	5.0
13...	1.6	.2	.07	.00	61	19.8	37	33	.1	108	8.2	4.0
JULY												
11...	.1	.3	.04	.00	57	18.5	35	22	.1	92	7.5	7.0
AUG.												
01...	.3	.2	.03	.00	99	7.48	62	51	.1	155	8.0	9.0
SEP.												
04...	.9	.2	.07	.01	141	4.46	92	77	.1	221	7.2	6.0

09358900 MINERAL CREEK ABOVE SILVERTON, COLO.--Continued

SILVER ANALYSIS, APRIL 1973 TO SEPTEMBER 1973

DATE	DIS-CHARGE (CFS)	TOTAL SILVER (AG) (UG/L)
APR.		
06...	3.5	<0.03
16...	3.4	<.03
JUNE		
04...	40	.07
13...	120	.10
JULY		
11...	120	<.03
AUG.		
01...	28	.04
SEP.		
04...	11	.07

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .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.										
06...	1500	3.5	3.0	7	.07	--	--	--	--	--
16...	0940	3.4	1.0	12	.11	--	--	--	--	--
MAY										
03...	1040	9.4	1.0	15	.38	--	--	--	--	--
14...	0940	55	7.0	18	2.7	--	--	--	--	--
JUNE										
04...	1000	40	5.0	22	2.4	--	--	--	--	--
13...	1540	120	4.0	83	27	39	69	87	97	100
JULY										
11...	1045	120	7.0	15	4.9	--	--	--	--	--
AUG.										
01...	1045	28	9.0	5	.38	--	--	--	--	--
SEP.										
04...	1020	11	6.0	4	.13	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT
WATER-QUALITY PARTIAL-RECORD STATIONS
BEGINS ON THE FOLLOWING PAGE.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	ALDRIN IN FILT. FRAC. (UG/L)	ALDRIN IN SUSP. FRAC. (UG/L)	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN FILT. FRAC. (UG/L)	CHLOR-DANE IN SUSP. FRAC. (UG/L)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN FILT. FRAC. (UG/L)	DDD IN SUSP. FRAC. (UG/L)
06754000 - SOUTH PLATTE RIVER NEAR KERSEY, COLO. (LAT 40 24 44 LONG 104 33 46)												
DEC., 1972												
17...	660	1.0	.00	.00	.00	--	.0	.0	.0	--	.00	.00
MAR., 1973												
07...	860	5.0	.00	.00	.00	.0	.0	.0	.0	0	.00	.00
JUNE												
26...	1770	24.0	.00	.00	.00	--	.0	.0	.0	--	.00	.00
SEP.												
11...	1370	--	.00	.00	.00	--	.0	.0	.0	--	.00	.00

DATE	DI-AZINON (UG/L)	DI-ELDRIN IN FILT. FRAC. (UG/L)	DI-ELDRIN IN SUSP. FRAC. (UG/L)	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN FILT. FRAC. (UG/L)	ENDRIN IN SUSP. FRAC. (UG/L)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN FILT. FRAC. (UG/L)	HEPTA-CHLOR IN SUSP. FRAC. (UG/L)	HEPTA-CHLOR (UG/L)
06754000 - SOUTH PLATTE RIVER NEAR KERSEY, COLO. (LAT 40 24 44 LONG 104 33 46)												
DEC., 1972												
17...	.03	.00	.00	.00	--	.00	.00	.00	--	.00	.00	.00
MAR., 1973												
07...	.03	.00	.00	.00	.0	.00	.00	.00	.0	.00	.00	.00
JUNE												
26...	.03	.01	.02	.03	--	.00	.00	.00	--	.00	.00	.00
SEP.												
11...	.03	.01	.03	.04	--	.00	.00	.00	--	.00	.00	.00

DATE	METHYL PARA-THION IN FILT. FRAC. (UG/L)	METHYL PARA-THION IN SUSP. FRAC. (UG/L)	METHYL PARA-THION (UG/L)	PARA-THION IN FILT. FRAC. (UG/L)	PARA-THION IN SUSP. FRAC. (UG/L)	PARA-THION (UG/L)	PCB IN FILT. FRAC. (UG/L)	PCB IN SUSP. FRAC. (UG/L)	PCB (UG/L)	PCB IN BOTTOM DE-POSITS (UG/KG)	2,4-D IN FILT. FRAC. (UG/L)	2,4-D IN SUSP. FRAC. (UG/L)
06754000 - SOUTH PLATTE RIVER NEAR KERSEY, COLO. (LAT 40 24 44 LONG 104 33 46)												
DEC., 1972												
17...	.00	.00	.00	.00	.00	.00	.0	.0	.0	--	.00	.00
MAR., 1973												
07...	.00	.00	.00	.00	.00	.00	.0	.0	.0	0	.05	.00
JUNE												
26...	.00	.00	.00	.00	.00	.00	.0	.0	.0	--	.10	.00
SEP.												
11...	.00	.00	.00	.01	.00	.01	.0	.0	.0	--	.39	.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 (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
09019000 - COLORADO RIVER BELOW LAKE GRANBY, COLO. (LAT 40 08 39 LONG 105 52 00)												
DEC., 1972												
07...	20	5.3	--	--	12	1.3	2.9	.9	30	0	25	5.8
MAR., 1973												
29...	19	5.5	--	--	7.2	1.3	2.2	.8	29	0	24	4.6
JUNE												
14...	87	6.0	--	--	7.1	1.2	2.6	1.0	31	0	25	4.7
SEP.												
20...	21	6.5	--	--	7.3	1.2	2.2	.8	30	0	25	4.2

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DDD (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN FILT. FRAC. (UG/L)	DDE IN SUSP. FRAC. (UG/L)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN FILT. FRAC. (UG/L)	DDT IN SUSP. FRAC. (UG/L)	DDT (UG/L)	DDT IN BOTTOM DEPOSITS (UG/KG)	DI-AZINON IN FILT. FRAC. (UG/L)	DI-AZINON IN SUSP. FRAC. (UG/L)
06754000 - SOUTH PLATTE RIVER NEAR KERSEY, COLO. (LAT 40 24 44 LONG 104 33 46)												
DEC., 1972												
17...	.00	--	.00	.00	.00	--	.00	.00	.00	--	.03	.00
MAR., 1973												
07...	.00	.0	.00	.01	.01	.0	.00	.00	.00	.0	.03	.00
JUNE												
26...	.00	--	.00	.02	.02	--	.00	.02	.02	--	.03	.00
SEP.												
11...	.00	--	.00	.02	.02	--	.00	.00	.00	--	.02	.01

DATE	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN FILT. FRAC. (UG/L)	HEPTACHLOR EPOXIDE IN SUSP. FRAC. (UG/L)	HEPTACHLOR EPOXIDE (UG/L)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN FILT. FRAC. (UG/L)	LINDANE IN SUSP. FRAC. (UG/L)	LINDANE (UG/L)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION IN FILT. FRAC. (UG/L)	MALATHION IN SUSP. FRAC. (UG/L)	MALATHION (UG/L)
06754000 - SOUTH PLATTE RIVER NEAR KERSEY, COLO. (LAT 40 24 44 LONG 104 33 46)												
DEC., 1972												
17...	--	.00	.00	.00	--	.00	.00	.00	--	.00	.00	.00
MAR., 1973												
07...	.0	.00	.00	.00	.0	.00	--	--	.0	.00	.00	.00
JUNE												
26...	--	.00	.00	.00	--	.00	.00	.00	--	.00	.00	.00
SEP.												
11...	--	.00	.00	.00	--	.00	--	--	--	.01	.00	.01

DATE	2,4-D (UG/L)	2,4,5-T IN FILT. FRAC. (UG/L)	2,4,5-T IN SUSP. FRAC. (UG/L)	2,4,5-T (UG/L)	SILVEX IN FILT. FRAC. (UG/L)	SILVEX IN SUSP. FRAC. (UG/L)	SILVEX (UG/L)
06754000 - SOUTH PLATTE RIVER NEAR KERSEY, COLO. (LAT 40 24 44 LONG 104 33 46)							
DEC., 1972							
17...	.00	.00	.00	.00	.00	.00	.00
MAR., 1973							
07...	.05	.01	.00	.01	.00	.00	.00
JUNE							
26...	.10	.01	.00	.01	.05	.00	.05
SEP.							
11...	.39	.02	.00	.02	.03	.00	.03

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
09019000 - COLORADO RIVER BELOW LAKE GRANBY, COLO. (LAT 40 08 39 LONG 105 52 00)												
DEC., 1972												
07...	.7	--	.12	.00	44	2.38	35	11	.2	56	7.1	3.0
MAR., 1973												
29...	1.1	--	.13	.00	38	1.95	23	0	.2	58	7.0	3.0
JUNE												
14...	.5	--	.11	.00	39	9.16	23	0	.2	60	8.2	5.0
SEP.												
20...	1.2	--	.10	.01	39	2.21	23	0	.2	62	8.0	6.5

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
09070500 - COLORADO RIVER NEAR DOTSERO, COLO. (LAT 39 38 40 LONG 107 04 40)												
NOV., 1972												
07...	1510	10	70	10	49	11	21	2.2	120	0	98	79
FEB., 1973												
05...	1080	15	60	60	43	9.4	24	2.1	120	0	98	63
MAY												
21...	9190	10	80	20	25	4.9	7.3	1.7	85	0	70	26
AUG.												
27...	1650	14	0	30	45	9.7	19	1.9	119	0	98	81
09149500 - UNCOMPAHGRE RIVER AT DELTA, COLO. (LAT 38 44 31 LONG 108 04 49)												
NOV., 1972												
07...	351	17	140	110	220	81	180	5.0	269	0	221	970
FEB., 1973												
13...	179	14	60	160	220	92	220	8.7	308	0	253	1100
MAY												
29...	295	16	170	60	160	43	86	3.6	207	0	170	570
AUG.												
13...	295	19	100	50	210	59	110	3.8	266	0	218	790
09163500 - COLORADO RIVER NEAR COLORADO-UTAH STATE LINE (LAT 39 10 00 LONG 108 57 26)												
NOV., 1972												
29...	4880	12	--	--	100	40	110	4.3	201	0	165	390
FEB., 1973												
14...	3810	9.4	50	70	89	34	110	5.5	186	0	153	350
MAY												
30...	15300	12	--	--	52	16	34	2.9	129	0	106	130
AUG.												
22...	4300	14	30	16	120	39	93	4.8	160	0	131	450
09177100 - SAN MIGUEL R BELOW URAVAN, CO. (LAT 38 23 08 LONG 108 45 28)												
NOV., 1972												
17...	110	7.6	--	--	110	59	60	3.7	160	0	131	460
FEB., 1973												
15...	62	5.8	--	--	130	76	98	6.5	79	0	65	650
MAY												
10...	2550	7.4	--	--	30	8.1	11	3.2	101	0	83	49
AUG.												
09...	215	7.4	--	--	85	34	31	2.8	130	0	107	290

DATE	TIME	DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	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
09306500 - WHITE RIVER AB RANGELY, COLO. (LAT 40 06 26 LONG 108 42 44)												
NOV., 1972												
13...	1430	463	4.5	78	98	--	--	--	--	--	--	--
DEC.												
22...	1100	520	.0	38	53	--	--	--	--	--	--	--
JAN., 1973												
15...	1500	500	.5	92	124	--	--	--	--	--	--	--
FEB.												
09...	1415	390	.5	74	78	--	--	--	--	--	--	--
MAR.												
08...	1330	410	.5	101	112	--	--	--	--	--	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--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 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)
09070500 - COLORADO RIVER NEAR DOTSERO, COLO. (LAT 39 38 40 LONG 107 04 40)												
NOV., 1972												
07...	22	.3	.10	.00	254	1040	170	69	.7	412	7.1	4.0
FEB., 1973												
05...	23	.4	.25	.02	240	700	150	48	.9	383	7.6	.0
MAY												
21...	4.5	.2	.10	.01	122	3030	83	13	.4	203	8.3	10.0
AUG.												
27...	20	.3	.06	.00	250	1110	150	55	.7	391	8.2	18.5
09149500 - UNCOMPAHGRE RIVER AT DELTA, COLO. (LAT 38 44 31 LONG 108 04 49)												
NOV., 1972												
07...	20	.8	2.8	.01	1640	1550	880	660	2.6	2100	8.0	8.0
FEB., 1973												
13...	26	.7	4.7	.20	1850	894	930	680	3.1	2390	8.1	1.0
MAY												
29...	9.9	.6	2.1	.04	1000	797	580	410	1.6	1330	8.0	16.0
AUG.												
13...	12	.7	3.1	.01	1350	1080	770	550	1.7	1670	8.0	16.0
09163500 - COLORADO RIVER NEAR COLORADO-UTAH STATE LINE (LAT 39 10 00 LONG 108 57 26)												
NOV., 1972												
29...	79	--	1.2	.10	840	11100	410	250	2.4	1230	7.6	1.0
FEB., 1973												
14...	88	.4	.84	.06	782	8050	360	210	2.5	1180	8.1	2.0
MAY												
30...	26	--	.36	.21	339	14000	200	90	1.1	548	7.9	13.0
AUG.												
22...	61	.5	1.2	.24	867	10100	460	330	1.9	1250	8.2	20.0
09177100 - SAN MIGUEL R BELOW URAVAN, CO. (LAT 38 23 08 LONG 108 45 28)												
NOV., 1972												
17...	42	.4	.66	.01	824	245	520	390	1.1	1230	7.3	5.0
FEB., 1973												
15...	73	--	3.5	.00	1090	182	640	570	1.7	1620	8.0	5.0
MAY												
10...	5.6	--	.27	.00	185	1140	110	25	.5	269	7.7	9.0
AUG.												
09...	17	--	.35	.00	533	309	350	250	.7	827	7.4	20.0

DATE	TIME	DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	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
09306300 - WHITE RIVER AB RANGELY, COLO. (LAT 40 06 26 LONG 108 42 40)												
APR.												
13...	0900	490	8.0	848	1120	57	69	90	97	98	99	100
MAY												
04...	1145	666	12.0	331	595	30	39	61	86	92	99	100
JUNE												
21...	1500	1810	18.0	412	2010	17	24	36	68	85	98	100
AUG.												
01...	1145	503	20.5	83	113	--	--	--	--	--	--	--
SEP.												
10...	1245	390	16.0	104	110	--	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

09343000 - RIO BLANCO NEAR PAGOSA SPRINGS, COLO. (LAT 37 12 46 LONG 106 47 38)

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
SEP. 05...	45	24	20	17	2.2	8.4	1.6	85	0	70	6.6	.4

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED BORON (B) (UG/L)
SEP. 05...	.2	.07	108	103	13.1	52	0	.5	146	8.0	18.5	20

DATE	TIME	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
NOV.							
06...	0900	--	37	--	--	--	--
07...	1115	--	56	--	--	--	--
08...	1005	--	57	--	--	--	--
09...	1040	--	30	--	--	--	--
10...	1230	--	60	--	--	--	--
13...	1015	--	18	--	--	--	--
14...	1045	--	59	--	--	--	--
15...	0900	--	20	--	--	--	--
MAY							
02...	1315	153	127	53	--	--	--
15...	1230	--	700	--	24	29	44
16...	1130	300	958	776	19	24	34
31...	1110	--	527	--	--	--	--
JUNE							
13...	1000	--	1960	--	--	--	--
SEP.							
05...	1345	45	5	.36	--	--	--

DATE	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
NOV.						
06...	--	--	--	--	--	--
07...	--	--	--	--	--	--
08...	--	--	--	--	--	--
09...	--	--	--	--	--	--
10...	--	--	--	--	--	--
13...	--	--	--	--	--	--
14...	--	--	--	--	--	--
15...	--	--	--	--	--	--
MAY						
02...	81	90	94	100	--	--
15...	71	84	96	100	--	--
16...	54	66	86	99	100	--
31...	56	66	76	92	99	100
JUNE						
13...	28	39	56	83	100	--
SEP.						
05...	--	--	--	--	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

09343300 - RIO BLANCO BL BLANCO DIV. DAM,CO (LAT 37 12 11 LONG 106 48 45)

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)
MAY											
04...	45	20	20	10	16	2.4	8.3	1.5	77	0	63
SEP.											
05...	20	24	30	--	18	2.4	8.5	1.6	87	0	71

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	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)
MAY											
04...	8.0	.8	.1	.14	.00	.14	.08	.23	.31	.45	.12
SEP.											
05...	6.7	.3	.1	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED ARSENIC (AS) (UG/L)
MAY											
04...	.02	111	96	13.5	50	0	.5	137	8.0	7.5	0
SEP.											
05...	.07	111	105	5.99	55	0	.5	152	8.1	14.5	--

DATE	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
MAY										
04...	0	40	0	0	8	300	.0	3	0	10
SEP.										
05...	--	10	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

09343300 - RIO BLANCO BL BLANCO DIV. DAM,CO (LAT 37 12 11 LONG 106 48 45)

DATE	TIME	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
NOV.							
06...	0945	--	30	--	--	--	--
06...	1240	--	505	--	--	--	--
06...	1330	--	140	--	--	--	--
07...	1100	--	29	--	--	--	--
08...	1010	--	28	--	--	--	--
08...	1215	--	15800	--	--	--	--
08...	1225	--	32000	--	--	--	--
08...	1255	--	2470	--	--	--	--
08...	1425	--	15400	--	--	--	--
08...	1455	--	1520	--	--	--	--
09...	0955	--	3960	--	--	--	--
09...	1025	--	1740	--	--	--	--
09...	1155	--	7240	--	--	--	--
09...	1225	--	5290	--	--	--	--
09...	1425	--	8500	--	--	--	--
10...	1200	--	1560	--	--	--	--
13...	1030	--	1590	--	--	--	--
14...	1055	--	109	--	--	--	--
15...	0910	--	79	--	--	--	--
20...	1145	--	23	--	--	--	--
MAY							
04...	1500	45	172	21	--	--	--
15...	1145	--	1080	--	18	22	32
16...	1100	200	8340	4510	2	3	4
31...	1040	100	443	120	--	--	--
JUNE							
13...	1500	--	2150	--	--	--	--
19...	0915	--	127	--	--	--	--
SEP.							
05...	1515	20	5	.27	--	--	--

DATE	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
NOV.						
06...	--	--	--	--	--	--
06...	--	--	--	--	--	--
06...	--	--	--	--	--	--
07...	--	--	--	--	--	--
08...	--	--	--	--	--	--
08...	--	--	--	--	--	--
08...	--	--	--	--	--	--
08...	--	--	--	--	--	--
08...	--	--	--	--	--	--
08...	--	--	--	--	--	--
09...	--	--	--	--	--	--
09...	--	--	--	--	--	--
09...	--	--	--	--	--	--
09...	--	--	--	--	--	--
09...	--	--	--	--	--	--
10...	--	--	--	--	--	--
13...	--	--	--	--	--	--
14...	--	--	--	--	--	--
15...	--	--	--	--	--	--
20...	--	--	--	--	--	--
MAY						
04...	63	71	82	93	96	98
15...	53	64	84	100	--	--
16...	9	12	38	77	93	100
31...	66	84	98	100	--	--
JUNE						
13...	26	33	50	87	99	100
19...	70	85	96	100	--	--
SEP.						
05...	--	--	--	--	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

09343400 - RIO BLANCO AT HIWAY 84 BRIDGE,CO (LAT 37 08 30 LONG 106 50 24)

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)
MAY											
04...	80	14	40	0	24	8.9	9.9	2.1	93	0	76
SEP.											
05...	20	22	10	--	22	3.9	9.4	1.8	100	1	84

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	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)
MAY											
04...	40	1.4	.2	.11	.00	.11	.20	.52	.72	.83	.20
SEP.											
05...	12	.6	.2	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED ARSENIC (AS) (UG/L)
MAY											
04...	.03	173	148	37.4	97	20	.4	230	7.9	8.0	1
SEP.											
05...	.06	131	122	7.07	71	0	.5	180	8.4	21.0	--

DATE	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	
MAY											
04...	0	50	0	0	11	<100	.0	6	0	10	
SEP.											
05...	--	10	--	--	--	--	--	--	--	--	

DATE	TIME	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
NOV.											
06...	1430	15	6.5	--	--	--	--	--	--	--	--
07...	1145	20	8.2	--	--	--	--	--	--	--	--
08...	0940	10	4.1	--	--	--	--	--	--	--	--
08...	1610	30	13	--	--	--	--	--	--	--	--
09...	1010	20	9.4	--	--	--	--	--	--	--	--
10...	1115	60	27	--	--	--	--	--	--	--	--
13...	0945	30	14	--	--	--	--	--	--	--	--
14...	1015	15	5.9	--	--	--	--	--	--	--	--
15...	0815	10	3.8	--	--	--	--	--	--	--	--
FEB.											
25...	--	1.0	.76	--	--	--	--	--	--	--	--
MAR.											
05...	1000	1.0	.74	--	--	--	--	--	--	--	--
15...	1000	1.0	.77	--	--	--	--	--	--	--	--
25...	1000	1.5	1.2	--	--	--	--	--	--	--	--
APR.											
02...	1000	4.0	3.4	--	--	--	--	--	--	--	--
03...	1000	4.0	3.5	--	--	--	--	--	--	--	--
12...	1600	2.0	1.7	--	--	--	--	--	--	--	--
MAY											
04...	1300	80	49	--	--	--	78	83	90	99	100
16...	1315	--	--	--	12	16	25	45	65	86	99	100
31...	1150	--	328	--	--	--	--	66	76	87	100	--
JUNE											
13...	1400	--	2470	--	6	12	21	44	64	81	92	100
SEP.											
05...	1415	20	16	.84	--	--	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

09344300 - NAVAJO RIVER ABOVE CHROMO COLO. (LAT 37 01 55 LONG 106 43 56)

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
SEP. 05...	27	20	19	3.2	6.4	1.4	53	0	43	33	.4

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED BORON (B) (UG/L)
SEP. 05...	.2	.07	126	117	61	17	.4	166	8.0	17.0	10

09344450 - NAVAJO R BL OSO DIVERSION,CO (LAT 37 31 48 LONG 106 44 16)

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)
MAY 04...	92	19	70	50	19	4.6	7.0	1.4	66	0	54
SEP. 05...	57	27	10	--	19	3.3	6.4	1.4	55	0	45

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	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)
MAY 04...	32	1.3	.2	.07	.00	.07	.09	.34	.43	.50	.12
SEP. 05...	33	.3	.1	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED ARSENIC (AS) (UG/L)
MAY 04...	.02	139	118	34.5	66	12	.4	172	7.8	2.5	0
SEP. 05...	.07	133	118	20.5	61	16	.4	167	7.8	16.5	--

DATE	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
MAY 04...	0	30	0	0	8	<100	.0	3	0	20
SEP. 05...	--	20	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

09344450 - NAVAJO R BL OSO DIVERSION,CO (LAT 37 31 48 LONG 106 44 16)

DATE	TIME	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
MAY												
04...	1000	92	65	16	--	--	--	94	97	99	100	--
06...	1445	--	322	--	--	--	--	87	92	98	100	--
31...	1400	--	208	--	--	--	--	89	97	99	100	--
JUNE												
25...	1315	400	12800	13800	3	4	7	27	69	96	100	--
26...	1440	400	6810	7360	4	5	8	31	71	92	98	100
SEP.												
05...	1500	57	6	.92	--	--	--	--	--	--	--	--

09346000 - NAVAJO RIVER AT EDITH, COLO. (LAT 37 00 10 LONG 106 54 25)

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)
NOV.											
27...	47	22	40	--	30	7.6	11	1.5	93	0	76
APR.											
03...	67	18	50	--	41	13	16	2.0	95	12	98
MAY											
03...	100	16	180	20	36	11	14	2.9	118	0	97
AUG.											
27...	57	25	10	--	29	7.2	10	2.4	80	8	79
SEP.											
05...	60	26	10	--	29	6.8	9.7	2.0	90	2	77

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	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)
NOV.											
27...	57	1.5	.2	.00	.00	--	.07	.08	.15	.15	.11
APR.											
03...	90	2.1	.2	.00	.00	.00	.01	.33	.34	.34	.09
MAY											
03...	66	1.9	.3	--	--	--	--	--	--	--	--
AUG.											
27...	56	1.3	.2	.00	.00	.00	.04	.21	.25	.25	.35
SEP.											
05...	46	.7	.2	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED ARSENIC (AS) (UG/L)
NOV.											
27...	.01	184	177	23.3	110	50	.5	256	7.6	1.0	--
APR.											
03...	.01	248	241	44.9	160	58	.6	360	8.9	4.5	--
MAY											
03...	.04	249	207	67.2	140	38	.5	320	8.0	14.0	3
AUG.											
27...	.02	200	179	31.0	100	23	.4	267	8.8	21.5	--
SEP.											
05...	.07	179	167	29.0	100	23	.4	249	8.4	21.0	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

09346000 - NAVAJO RIVER AT EDITH, COLO. (LAT 37 00 10 LONG 106 54 25)

DATE	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
NOV.										
27...	--	0	--	--	--	--	--	--	--	--
APR.										
03...	--	40	--	--	--	--	--	--	--	--
MAY										
03...	0	70	0	0	11	<100	.0	3	0	20
AUG.										
27...	--	50	--	--	--	--	--	--	--	--
SEP.										
05...	--	20	--	--	--	--	--	--	--	--

DATE	TIME	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
APR.							
03...	1500	67	33	6.0	--	--	--
MAY							
03...	1730	100	402	109	47	57	75
26...	1400	--	690	--	--	--	--
31...	1320	--	212	--	--	--	--
JUNE							
25...	1545	--	2430	--	12	16	31
26...	1520	--	2880	--	7	9	14
AUG.							
27...	1545	57	24	3.7	--	--	--

DATE	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
APR.						
03...	--	--	--	--	--	--
MAY						
03...	92	98	100	--	--	--
26...	72	91	97	100	--	--
31...	86	94	99	100	--	--
JUNE						
25...	79	94	97	98	99	100
26...	54	65	92	99	100	--
AUG.						
27...	--	--	--	--	--	--

09346400 - SAN JUAN RIVER NR CARRACAS, COLORADO (LAT 37 00 49 LONG 107 18 42)

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (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)
NOV.											
28...	207	17	50	34	8.8	20	2.2	111	0	91	59
MAY											
03...	1780	13	70	32	11	15	2.0	103	0	84	63
AUG.											
28...	218	17	0	33	9.3	18	2.4	113	4	99	64

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

09346400 - SAN JUAN RIVER NR CARRACAS, COLORADO (LAT 37 00 49 LONG 107 18 42)

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	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)
NOV. 28...	2.7	.2	.00	.00	--	.08	.07	.15	.15	.13	.01
MAY 03...	2.2	.2	.18	.00	.18	.29	.62	.91	1.1	.33	.02
AUG. 28...	2.3	.2	.01	.00	.01	.03	.30	.33	.33	.09	.01

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED BORON (B) (UG/L)
NOV. 28...	192	199	107	120	30	.8	277	7.5	.0	10
MAY 03...	224	191	1080	130	41	.6	302	7.7	8.0	60
AUG. 28...	214	206	126	120	21	.7	327	8.9	22.0	50

DATE	TIME	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
AUG. 28...	1330	218	103	61

09349800 - PIEDRA RIVER NEAR ARBOLES, COLO. (LAT 37 05 18 LONG 107 23 50)

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
NOV. 28...	410	14	40	46	7.2	13	1.7	125	0	103	69
MAY 03...	1930	9.5	20	33	6.1	5.7	1.8	102	0	84	35
AUG. 28...	145	15	0	47	6.9	15	2.2	129	0	106	73

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	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)
NOV. 28...	3.3	.7	.01	.00	--	.07	.28	.35	.36	.06	.06
MAY 03...	1.6	.2	.17	.00	.17	.16	.78	.94	1.1	.25	.01
AUG. 28...	2.2	.3	.01	.00	.01	.02	.22	.24	.25	.02	.00

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

09349800 - PIEDRA RIVER NEAR ARBOLES, COLO. (LAT 37 05 18 LONG 107 23 50)

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED BORON (B) (UG/L)
NOV.										
28...	228	217	252	140	42	.5	336	7.0	.5	0
MAY										
03...	175	145	912	110	24	.2	237	7.8	5.0	40
AUG.										
28...	244	225	95.5	150	40	.5	358	8.3	17.0	40

DATE	TIME	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
AUG.				
28...	1100	145	16	6.3

09354500 - LOS PINOS RIVER AT LA BOCA, COLORADO (LAT 37 00 37 LONG 107 35 49)

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
NOV.											
28...	138	4.8	40	42	7.0	21	1.4	172	0	141	34
MAY											
02...	1310	5.5	20	26	4.3	6.3	1.3	94	0	77	16
AUG.											
28...	322	6.9	0	29	4.6	11	1.9	105	8	99	15

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	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)
NOV.											
28...	5.9	.3	.02	.00	--	.07	.16	.23	.25	.10	.00
MAY											
02...	3.4	.2	.06	.01	.08	.19	.48	.67	.75	.16	.01
AUG.											
28...	2.4	.2	.01	.00	.01	.03	.32	.35	.36	.05	.02

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED BORON (B) (UG/L)
NOV.										
28...	210	201	78.2	130	0	.8	331	7.9	.5	0
MAY										
02...	130	110	460	85	6	.3	188	8.0	11.0	20
AUG.										
28...	134	131	116	90	0	.5	210	8.9	22.0	30

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

09363500 - ANIMAS RIVER NEAR CEDAR HILL, N. MEX. (LAT 37 02 17 LONG 107 52 25)

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
NOV.											
29...	524	8.2	9	69	11	20	2.6	172	0	141	110
MAY											
01...	2700	6.5	9	47	9.7	7.9	1.3	138	0	113	62
AUG.											
28...	746	7.9	0	58	9.2	19	2.6	131	5	116	96

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	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)
NOV.											
29...	16	.4	.19	.00	--	.08	.11	.19	.38	.06	.01
MAY											
01...	4.9	.1	.19	.00	.19	.06	.59	.65	.84	.24	.00
AUG.											
28...	15	.4	.04	.00	.04	.02	.24	.26	.30	.01	.01

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SULIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED BORON (B) (UG/L)
NOV.										
29...	338	324	478	220	76	.6	503	7.4	1.5	30
MAY										
01...	214	209	1560	160	44	.5	342	8.0	5.0	20
AUG.										
28...	283	278	570	180	67	.6	446	8.6	20.0	60

DATE	TIME	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
MAY							
01...	1130	2700	810	5910	13	18	22

DATE	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
MAY						
01...	41	53	67	85	93	100

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

09366500 - LA PLATA RIVER AT COLORADO-NEW MEXICO STATE LINE (LAT 36 59 59 LONG 108 11 17)

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
DEC.											
08...	31	8.5	77	41	26	1.6	162	0	133	330	11
FEB., 1973											
13...	34	11	120	63	42	1.8	271	0	222	410	19
MAY											
07...	385	8.6	60	27	16	2.0	167	0	137	160	6.4

DATE	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
DEC.										
08...	.10	.00	575	48.1	360	230	.6	811	7.3	1.0
FEB., 1973										
13...	.22	.00	801	73.5	560	340	.8	1140	8.3	1.0
MAY										
07...	.07	.00	363	377	260	120	.4	581	7.8	5.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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 SUDIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
06748000 - CACHE LA POUDRE RIVER NEAR LOG CABIN, CO. (LAT 40 41 58 LONG 105 34 18)												
APR., 1973												
24...	21	8.9	50	0	8.2	2.1	4.3	1.0	51	41	4.3	1.4
06749000 - CACHE LA POUDRE RIVER BELOW ELKHORN CREEK, CO. (LAT 40 41 32 LONG 105 2[illegible] 58)												
APR., 1973												
25...	68	10	70	0	7.8	2.1	4.0	.7	45	36	5.6	1.6
06751500 - N FORK CACHE LA POUDRE RIVER NEAR LIVERMORE, CO. (LAT 40 42 10 LONG 105 14 01)												
APR., 1973												
25...	19	9.4	30	30	36	9.9	13	1.4	165	135	11	7.2
404026105284000 - BENNETT C AT MOUTH NR RUSTIC, CO. (LAT 40 40 26 LONG 105 28 40)												
APR., 1973												
17...	1.4	14	70	0	13	5.4	5.1	1.1	66	54	6.8	1.6
404028105254200 - POVERTY GULCH AT MOUTH NR POUDRE PARK, CO. (LAT 40 40 28 LONG 105 25 42)												
APR., 1973												
18...	--	14	40	0	13	3.6	4.9	1.0	64	53	8.2	1.9
404057105232000 - SKIN GULCH AT MOUTH NR POUDRE PARK, CO. (LAT 40 40 57 LONG 105 23 20)												
APR., 1973												
18...	--	19	20	0	26	8.0	9.7	1.0	128	105	15	3.7
404111105264700 - S.F. CACHE LA POUDRE R AT MO NR RUSTIC, CO. (LAT 40 41 11 LONG 105 26 47)												
APR., 1973												
18...	24	11	120	0	4.8	1.4	3.1	.5	25	20	3.7	.8
404122105205600 - YOUNG GULCH AT MOUTH NR POUDRE PARK, CO. (LAT 40 41 22 LONG 105 20 56)												
APR., 1973												
24...	2.8	13	50	10	21	5.2	7.2	1.2	87	71	8.5	3.1
404129105183700 - HEWLETT GULCH AT MOUTH AT POUDRE PARK, CO. (LAT 40 41 29 LONG 105 18 37)												
APR., 1973												
24...	.26	15	30	0	40	9.4	18	1.6	178	146	19	5.8
404152105262400 - ELKHORN C AT MOUTH NR POUDRE PARK, CO. (LAT 40 41 52 LONG 105 26 24)												
APR., 1973												
18...	3.3	13	200	0	12	2.9	5.1	1.1	50	41	7.8	2.0
404158105345000 - SEVENMILE C AT MOUTH AT RUSTIC, CO. (LAT 40 41 58 LONG 105 34 50)												
APR., 1973												
17...	.88	13	30	0	8.8	2.6	4.2	.8	42	34	7.1	1.4
404200105145600 - CACHE LA POUDRE R AB NF NR FT. COLLINS, CO. (LAT 40 42 00 LONG 105 14 56)												
APR., 1973												
25...	90	9.8	40	0	11	2.3	4.3	.8	43	35	6.4	1.7
404233105441100 - ROARING C AT MOUTH AT KINIKINIK, CO. (LAT 40 42 33 LONG 105 44 11)												
APR., 1973												
17...	2.0	12	60	0	5.1	1.5	3.8	.5	28	23	5.1	2.3

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SUDIUM AD-SURP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
06748000 - CACHE LA POUDRE RIVER NEAR LOG CABIN, CO. (LAT 40 41 58 LONG 105 34 18)												
APR., 1973 24...	.1	.00	.03	56	3.18	29	0	24	.3	74	7.7	7.0
06749000 - CACHE LA POUDRE RIVER BFLOW ELKHORN CREEK, CO. (LAT 40 41 32 LONG 105 25 58)												
APR., 1973 25...	.2	.00	.03	54	9.91	28	0	23	.3	76	7.6	4.5
06751500 - N FORK CACHE LA POUDRE RIVER NEAR LIVERMORE, CO. (LAT 40 42 10 LONG 105 14 01)												
APR., 1973 25...	.9	.01	.03	170	8.72	130	0	18	.5	302	7.9	6.0
404026105284000 - BENNETT C AT MOUTH NR RUSTIC, CO. (LAT 40 40 26 LONG 105 28 40)												
APR., 1973 17...	.1	.00	.03	78	.30	46	0	19	.3	117	7.6	1.0
404028105254200 - POVERTY GULCH AT MOUTH NR POUDRE PARK, CO. (LAT 40 40 28 LONG 105 25 42)												
APR., 1973 18...	.2	.04	.03	79	--	47	0	18	.3	117	7.5	.0
404057105232000 - SKIN GULCH AT MOUTH NR POUDRE PARK, CO. (LAT 40 40 57 LONG 105 23 20)												
APR., 1973 18...	.4	.09	.03	146	--	96	0	18	.4	237	7.8	5.0
404111105264700 - S.F. CACHE LA POUDRE R AT MO NR RUSTIC, CO. (LAT 40 41 11 LONG 105 26 47)												
APR., 1973 18...	.2	.00	.03	38	2.46	18	0	27	.3	49	7.9	5.0
404122105205600 - YOUNG GULCH AT MOUTH NR POUDRE PARK, CO. (LAT 40 41 22 LONG 105 20 56)												
APR., 1973 24...	.3	.02	.03	103	.78	74	2	17	.4	166	7.8	5.0
404129105183700 - HEWLETT GULCH AT MOUTH AT POUDRE PARK, CO. (LAT 40 41 29 LONG 105 18 37)												
APR., 1973 24...	1.1	.45	.09	200	.14	140	0	22	.7	340	8.1	7.5
404152105262400 - ELKHORN C AT MOUTH NR POUDRE PARK, CO. (LAT 40 41 52 LONG 105 26 24)												
APR., 1973 18...	.5	.00	.03	69	.61	42	1	20	.5	106	7.4	6.0
404158105345000 - SEVENMILE C AT MOUTH AT RUSTIC, CO. (LAT 40 41 58 LONG 105 34 50)												
APR., 1973 17...	.2	.00	.03	59	.14	33	0	21	.3	87	7.2	4.5
404200105145600 - CACHE LA POUDRE R AB NF NR FT. COLLINS, CO. (LAT 40 42 00 LONG 105 14 56)												
APR., 1973 25...	.2	.02	.03	58	14.1	37	2	20	.3	87	7.9	5.0
404233105441100 - ROARING C AT MOUTH AT KINIKINIK, CO. (LAT 40 42 33 LONG 105 44 11)												
APR., 1973 17...	.1	.01	.03	44	.24	19	0	30	.4	54	7.1	3.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
06748000 - CACHE LA POUDRE RIVER NEAR LOG CABIN, CO. (LAT 40 41 58 LONG 105 34 18)												
APR., 1973 24...	--	--	--	--	--	--	--	--	--	--	--	--
06749000 - CACHE LA POUDRE RIVER BELOW ELKHORN CREEK, CO. (LAT 40 41 32 LONG 105 25 58)												
APR., 1973 25...	--	--	--	--	--	--	--	--	--	--	--	--
06751500 - N FORK CACHE LA POUDRE RIVER NEAR LIVERMORE, CO. (LAT 40 42 10 LONG 105 14 01)												
APR., 1973 25...	3	0	0	0	0	18	1	.1	5	6	0	10
404026105284000 - BENNETT C AT MOUTH NR RUSTIC, CO. (LAT 40 40 26 LONG 105 28 40)												
APR., 1973 17...	--	--	--	--	--	--	--	--	--	--	--	--
404028105254200 - POVERTY GULCH AT MOUTH NR POUDRE PARK, CO. (LAT 40 40 28 LONG 105 25 42)												
APR., 1973 18...	--	--	--	--	--	--	--	--	--	--	--	--
404057105232000 - SKIN GULCH AT MOUTH NR POUDRE PARK, CO. (LAT 40 40 57 LONG 105 23 20)												
APR., 1973 18...	--	--	--	--	--	--	--	--	--	--	--	--
404111105264700 - S.F. CACHE LA POUDRE R AT MO NR RUSTIC, CO. (LAT 40 41 11 LONG 105 26 47)												
APR., 1973 18...	4	0	0	0	0	18	3	.1	4	9	1	10
404122105205600 - YOUNG GULCH AT MOUTH NR POUDRE PARK, CO. (LAT 40 41 22 LONG 105 20 56)												
APR., 1973 24...	--	--	--	--	--	--	--	--	--	--	--	--
404129105183700 - HEWLETT GULCH AT MOUTH AT POUDRE PARK, CO. (LAT 40 41 29 LONG 105 18 37)												
APR., 1973 24...	--	--	--	--	--	--	--	--	--	--	--	--
404152105262400 - ELKHORN C AT MOUTH NR POUDRE PARK, CO. (LAT 40 41 52 LONG 105 26 24)												
APR., 1973 18...	2	0	0	0	0	10	2	.1	3	0	0	10
404158105345000 - SEVENMILE C AT MOUTH AT RUSTIC, CO. (LAT 40 41 58 LONG 105 34 50)												
APR., 1973 17...	5	0	1	0	0	10	1	.1	2	7	1	10
404200105145600 - CACHE LA POUDRE R AB NF NR FT. COLLINS, CO. (LAT 40 42 00 LONG 105 14 56)												
APR., 1973 25...	--	--	--	--	--	--	--	--	--	--	--	--
404233105441100 - ROARING C AT MOUTH AT KINIKINIK, CO. (LAT 40 42 33 LONG 105 44 11)												
APR., 1973 17...	--	--	--	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	LIS-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)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
404234105445400 - CACHE LA POUDRE R AT KINIKINIK, C. (LAT 40 42 34 LONG 105 44 54)												
APR., 1973												
17...	6.3	11	50	0	6.9	1.7	5.8	1.0	34	28	5.4	1.9

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SURP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
404234105445400 - CACHE LA POUDRE R AT KINIKINIK, C. (LAT 40 42 34 LONG 105 44 54)												
APR., 1973 17...	.1	.07	.06	49	.83	24	0	24	.3	70	7.5	2.5

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