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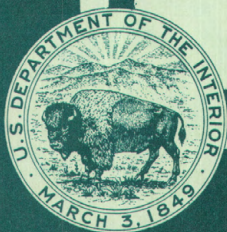
Water Resources Data for Utah

Part 2. Water Quality Records

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

1972

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for

Utah

Part 2. Water Quality Records



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Prepared in cooperation with

Utah Department of Natural Resources
Bureau of Reclamation, U.S. Department of
the Interior
Environmental Protection Agency

Streamflow records for most of the water quality
stations in this report are contained in:

Water Resources Data for Utah, 1972

Part 1. Surface Water Records

Copies of this report may be obtained from
District Chief, Water Resources Division
U.S. Geological Survey
8002 Federal Building
125 South State Street
Salt Lake City, Utah 84111

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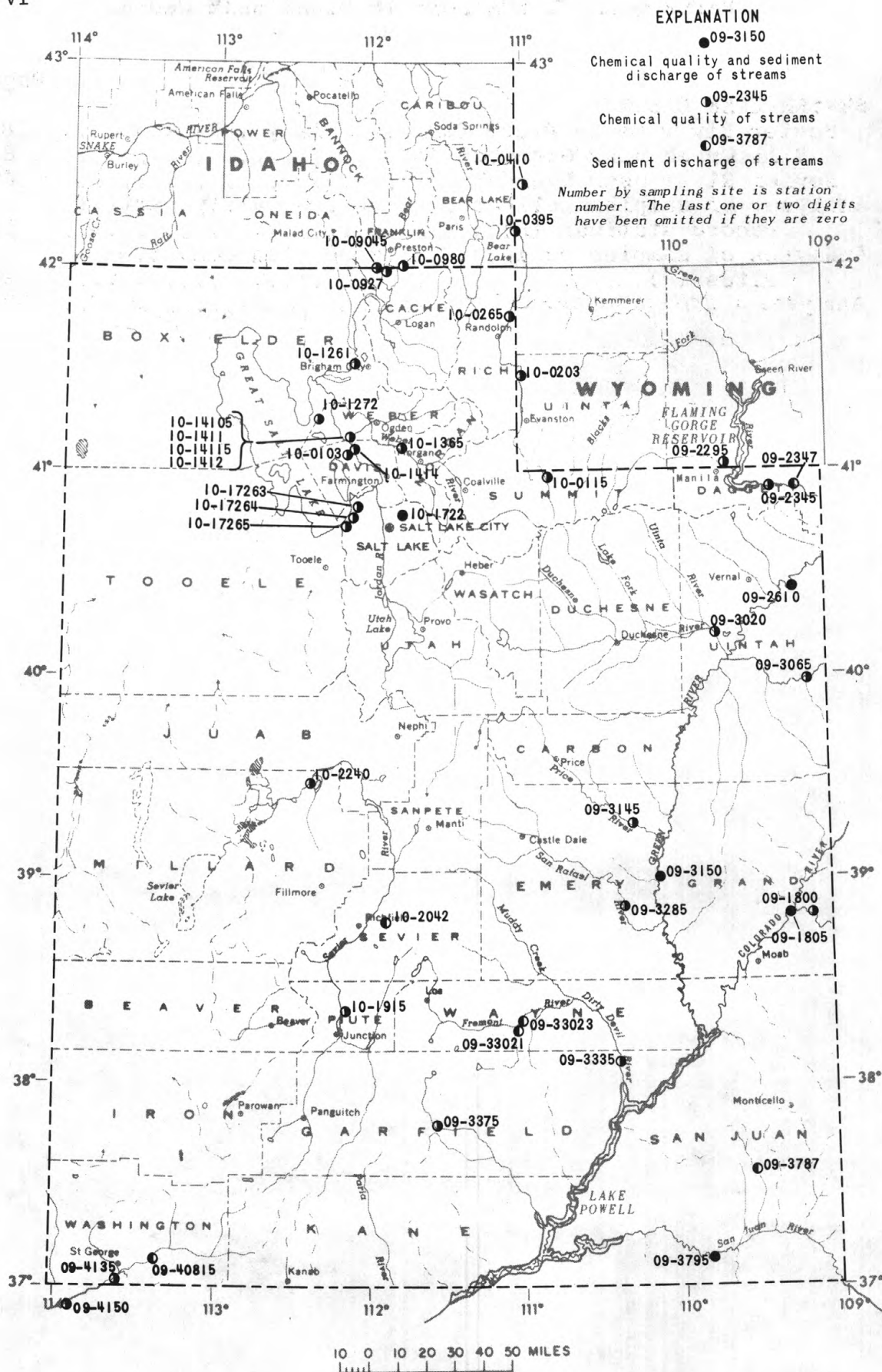
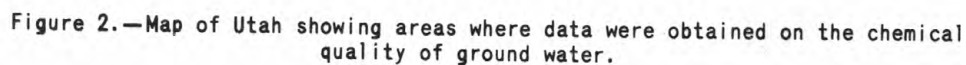
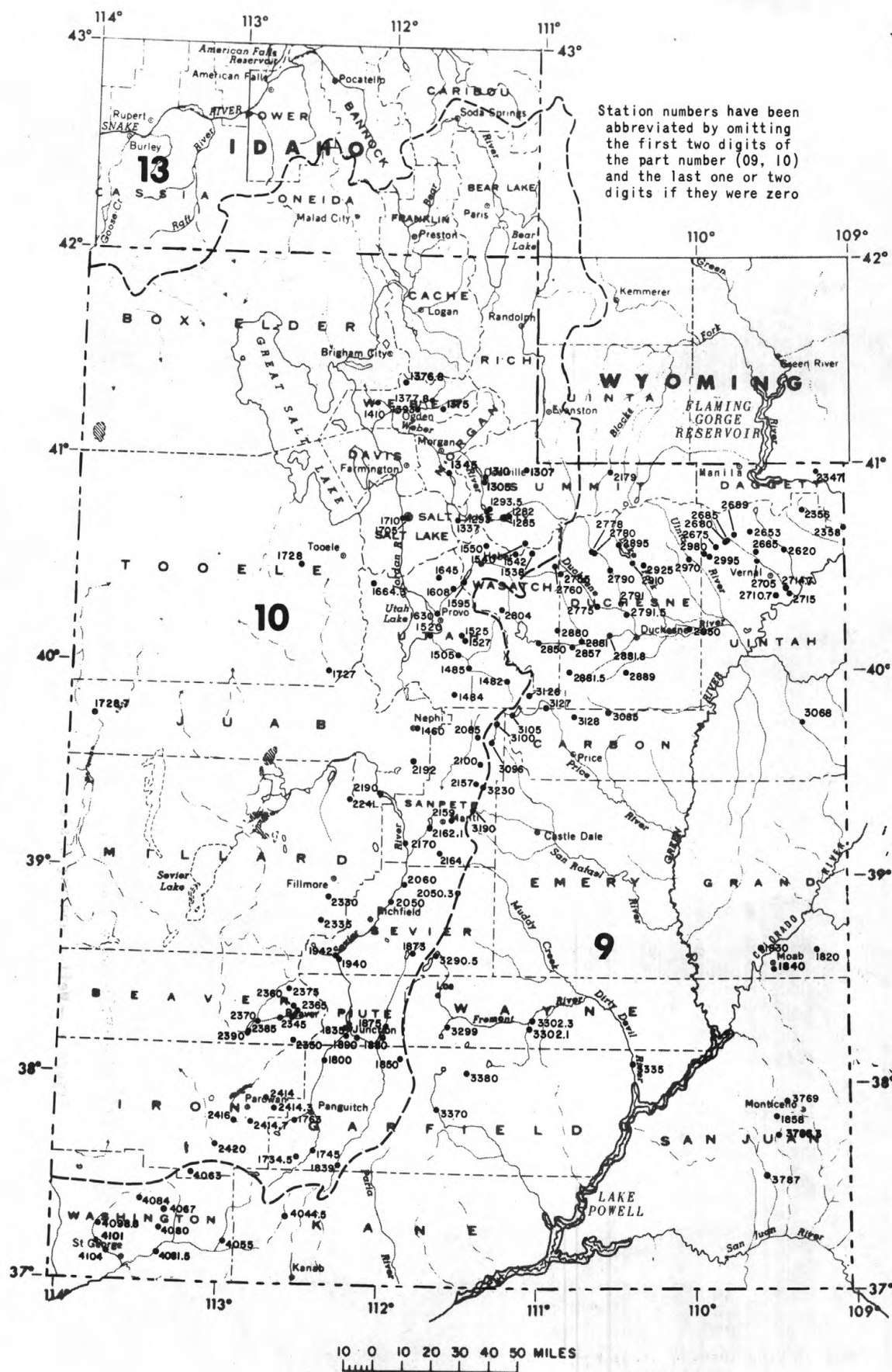


Figure 1.— Map of Utah showing locations of sites where data were obtained on the quality of surface water.





WATER RESOURCES DATA FOR UTAH, 1972

Part 2. Water Quality Records

By Michael D. ReMillard, Glenn E. Johnson, and J. C. Mundorff

INTRODUCTION

Water-resources data for the 1972 water year for Utah include records of data for the chemical and physical characteristics of surface and ground water. Records for a few pertinent water-quality stations in bordering States are also included. The records were collected by the Water Resources Division of the U.S. Geological Survey under the direction of Ted Arnow, district chief. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Utah.

The Geological Survey has published records of chemical quality, water temperatures, and suspended sediment since 1941 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Beginning with the 1964 water year, water-quality records also have been released by the Geological Survey in annual reports on a state-boundary basis. These reports are designed primarily for rapid release of data 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 ground water and of some surface water were made under cooperative agreement between the U.S. Geological Survey and the Utah Department of Natural Resources, Gordon Harmston, Executive Director (Division of Water Rights, Hubert C. Lambert, State Engineer; Division of Water Resources, Daniel F. Lawrence, Director).

Records for Bear River at Border, Wyo., and for Henrys Fork near Linwood, Utah, were obtained by the Wyoming District, Water Resources Division, U.S. Geological Survey.

DEFINITION OF TERMS

Definition of terms related to water-quality and hydrologic data, as used in this report are defined as follows:

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

Bed material is the shifting portion of fragmented alluvial material of which the streambed is composed.

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

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

Discharge 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. If this discharge is reported instead of the daily mean, the heading of the discharge column in the tables is "Discharge (cfs)."

Drainage area of a stream at a specified location is that area, measured in horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river above the specified point.

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

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 obtained.

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

Micrograms per liter ($\mu\text{g}/\text{l}$, UG/L) is a unit expressing the concentration of chemical constituents in solution as weight (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milliequivalents per liter is a unit for expressing the concentration of chemical constituents in terms of the interreacting values of the electrically charged particles, or ions, in solution. One milliequivalent (per liter) of a positively charged ion will react with one milliequivalent (per liter) of a negatively charged ion. Milligrams per liter is converted to milliequivalents per liter by multiplying by the reciprocal of the combining weight of the ion.

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

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

Ion	Multi- ply by	Ion	Multi- ply by
Aluminum (Al^{+3}) *	0.11119	Iodide (I^{-1})	0.00788
Ammonia as NH_4^{+1}	.05544	Iron (Fe^{+3}) *	.05372
Barium (Ba^{+2})	.01456	Lead (Pb^{+2}) *	.00965
Bicarbonate (HCO_3^{-1})	.01639	Lithium (Li^{+1}) *	.14411
Bromide (Br^{-1})	.01251	Magnesium (Mg^{+2})	.08226
Calcium (Ca^{+2})	.04990	Manganese (Mn^{+2}) *	.03640
Carbonate (CO_3^{-2})	.03333	Nickel (Ni^{+2}) *	.03406
Chloride (Cl^{-1})	.02821	Nitrate (NO_3^{-1})	.01613
Chromium (Cr^{+6}) *	.11539	Nitrite (NO_2^{-1})	.02174
Cobalt (Co^{+2}) *	.03394	Phosphate (PO_4^{-3})	.03159
Copper (Cu^{+2}) *	.03148	Potassium (K^{+1})	.02557
Cyanide (CN^{-1})	.03844	Sodium (Na^{+1})	.04350
Fluoride (F^{-1})	.05264	Strontium (Sr^{+2}) *	.02283
Hydrogen (H^{+1})	.99209	Sulfate (SO_4^{-2})	.02082
Hydroxide (OH^{-1})	.05880	Zinc (Zn^{+2}) *	.03060

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

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

<u>Range of concentration (mg/l)</u>	<u>Divide by</u>	<u>Range of concentration (mg/l)</u>	<u>Divide by</u>
0 - 8,000	1.00	411,000 - 424,000	1.26
8,050 - 24,000	1.01	427,000 - 440,000	1.27
24,200 - 40,000	1.02	443,000 - 457,000	1.28
40,500 - 56,000	1.03	460,000 - 473,000	1.29
56,500 - 72,000	1.04	476,000 - 489,000	1.30
72,500 - 88,000	1.05	492,000 - 506,000	1.31
88,500 - 104,000	1.06	508,000 - 522,000	1.32
105,000 - 120,000	1.07	524,000 - 538,000	1.33
121,000 - 136,000	1.08	540,000 - 554,000	1.34
137,000 - 152,000	1.09	556,000 - 570,000	1.35
153,000 - 169,000	1.10	572,000 - 585,000	1.36
170,000 - 185,000	1.11	587,000 - 602,000	1.37
186,000 - 200,000	1.12	604,000 - 617,000	1.38
201,000 - 217,000	1.13	619,000 - 634,000	1.39
218,000 - 232,000	1.14	636,000 - 650,000	1.40
234,000 - 248,000	1.15	652,000 - 666,000	1.41
250,000 - 264,000	1.16	668,000 - 682,000	1.42
266,000 - 280,000	1.17	684,000 - 698,000	1.43
282,000 - 297,000	1.18	700,000 - 715,000	1.44
299,000 - 313,000	1.19	717,000 - 730,000	1.45
315,000 - 329,000	1.20	732,000 - 747,000	1.46
331,000 - 345,000	1.21	749,000 - 762,000	1.47
347,000 - 361,000	1.22	765,000 - 780,000	1.48
363,000 - 378,000	1.23	782,000 - 796,000	1.49
380,000 - 393,000	1.24	798,000 - 810,000	1.50
395,000 - 409,000	1.25		

*Based on water density of 1.00 g/ml and a specific gravity of sediment of 2.65.

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

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

Particle-size classification, used in this report agrees with the 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 the particle sizes of sediment in transport in the natural stream. Most of the organic matter is removed and the sample is subjected to mechanical and chemical dispersion before analysis of the silt and clay.

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 such as 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.

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

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

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 that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimeter at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). 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 or a digital mechanism that automatically records water temperature on paper tape.

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

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

Water year is the 12-month period, Oct. 1 to Sept. 30. The water year is designated by the calendar year in which it ends and which includes nine of the 12 months. Thus, the year ending Sept. 30, 1971, is called the "1971 water year."

SPECIAL NETWORKS AND PROGRAMS

Some of the stations for which data are published in this report are included in special networks and programs. These stations are identified by the network 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."

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

Radiochemical program is a network of regularly sampled water-quality stations where additional samples are collected twice a year (at high and low flow) to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

DOWNSTREAM ORDER AND STATION NUMBER

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

As an added means of identification, each water-quality station, gaging station, and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record and continuous-record stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging or partial-record station. Gaps are left in the numbers to allow for new stations that may be established; hence the numbers are not consecutive. The complete 8-digit number for each station, such as 09337500 which appears just to the left of the station name includes the 2-digit part number "09" plus the 6-digit downstream order number "337500". In this report, the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural drainage lines. Records in this report are in Part 9 (Colorado River basin) and Part 10 (The Great Basin). 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.

WELL NUMBERS

The well numbers used in this report indicate their location. The numbering system, which is illustrated on page 11, is based on the U.S. Bureau of Land Management's system of land subdivision. The number shows the location of the well by quadrant, township, range, section, and position within the section. The capital letter at the beginning of the location number indicates the quadrant in which the well is located. Four quadrants are formed by the intersection of the base line and the principal meridian--A indicates the northeast quadrant, B the northwest, C the southwest, and D the southeast. The first numeral indicates the township, the second the range, and the third the section in which the well is located. Lowercase letters following the section number locate the well within the section. The first letter denotes the quarter section, the second the quarter-quarter section, and the third the quarter-quarter-quarter section. The letters are assigned within the section in a counterclockwise direction beginning with (a) in the northeast quarter of the section. Letters are assigned within each quarter section and quarter-quarter section in the same manner. Where two or more locations are within the smallest subdivision, consecutive numbers beginning with 1 are added to the letters in the order in which the wells are inventoried. For example, (C-16-9)15daa-2 indicates a well in the northeast quarter of the northeast quarter of the southeast quarter of sec.15, T.16 S., R.9 W., and shows that this is the second well inventoried in the quarter-quarter-quarter section. The capital letter C indicates that the township is south of the Salt Lake Base Line and that the range is west of the Salt Lake Meridian.

In addition to the Salt Lake Base Line and Salt Lake Meridian, which apply to most of Utah, the Uinta Base Line and Meridian are the basis for describing locations in a small, irregularly-shaped area of northeastern Utah. The quadrants, townships, ranges, sections, and parts of sections are designated in the same way as for the Salt Lake Base Line and Meridian. For any location in the Uinta area, however, the letter "U" precedes the parenthesis.

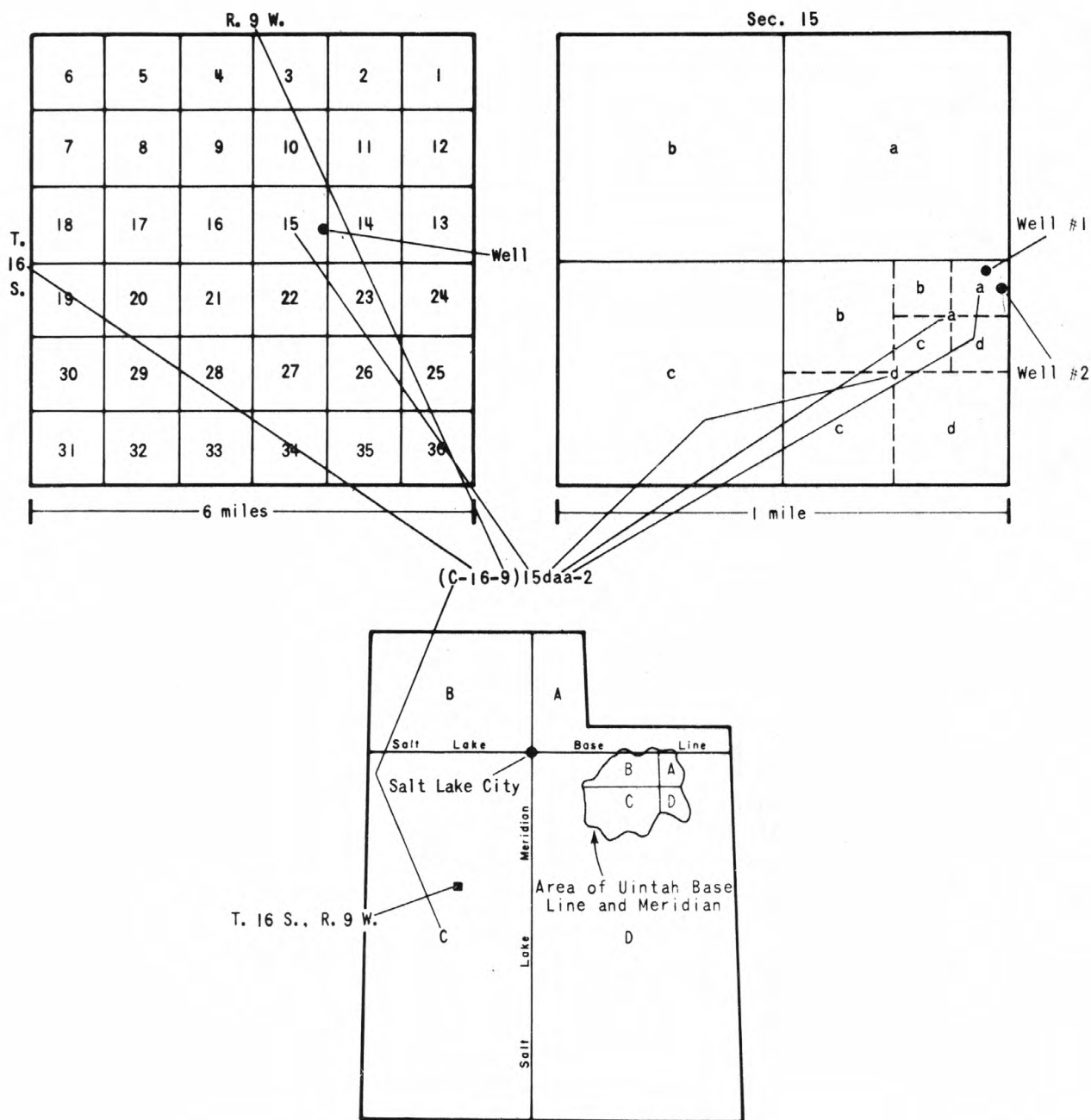


Figure 4.— Well-numbering system.

COLLECTION AND EXAMINATION OF DATA

Water samples for analyses usually are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment loads. Discharge records for streams in Utah have been released in the report, "Water Resources Data for Utah, 1971, Part 1. Surface Water Records."

The data in this report include a description of the sampling station and tabulations of the samples analyzed. The description of the sampling station gives the location, drainage area, periods of record for the various water-quality data, extremes of the pertinent data, and general remarks, in a format similar to that used for streamflow-gaging stations. For ground-water sampling stations, no descriptive statements are given. However, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of ground water.

Data on the quality of surface water were collected from designated sampling sites (map on page VI) at predetermined intervals such as once daily, weekly, monthly, or less frequently. Data on the quality of ground water were collected at 123 wells throughout the State; the areas where these wells are located are shown on the map on page VII.

Specific conductance and temperature only were measured at 147 gaging stations in Utah, usually at one-month intervals (map on page VIII). Field instruments having a specific conductance range from 50 to 8,000 micromhos were used for the measurements. In the tables on pages 92 to 133, a few data are shown as <50 (less than 50 micromhos) or >8,000 (more than 8,000 micromhos). Discharge records and detailed information on locations of these stations are given in the report, "Water Resources Data for Utah, 1972, Part 1, Surface Water Records."

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

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. Fluvial-sediment information is given for suspended-sediment discharges and concentrations and for particle-size distribution of suspended sediment and bed material.

Prior to the 1968 water year, data for chemical constituents and concentrations of suspended sediment were reported in parts per million (ppm) and water temperatures were reported in degrees Fahrenheit (°F). In October 1967, the U.S. Geological Survey began to use the metric system; data for chemical constituents and concentrations of suspended sediment are now reported in milligrams per liter (mg/l) and water temperatures are given in degrees Celsius (centigrade, °C). In waters with a density of 1.000 g/ml (grams per milliliter), parts per million and milligrams per liter can be considered equal. In waters with a density greater than 1.000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per liter. To convert temperature in degrees Celsius to degrees Fahrenheit, 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

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

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements in micrograms per liter instead of milligrams per liter. (See "Definitions of Terms," p. 4.)

Solutes

The methods of collecting and analyzing water samples for determining the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman (1970). One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge depending on the source of material and the turbulence and the mixing of the stream. Some must be sampled at several verticals across the channel to determine accurately the solute load.

The chemical-quality data in this report generally represent the major chemical characteristics of the stream water at a specific time about once each month. In addition, samples are generally obtained daily for determination of specific conductance of the water. If daily specific-conductance data indicate major changes in the chemical characteristics of the water or if runoff conditions are extremely unusual, selected daily samples are analyzed for certain constituents. Relationships usually can be established between specific conductance and dissolved-solids concentrations and, in some instances, between conductance and concentrations of individual constituents. Dissolved-solids concentrations shown under "sum of constituents" in the tables of chemical analyses include the sum of the constituents actually determined in any given analysis.

Ground water generally does not change significantly during short periods of time; infrequent sampling and analysis of ground water adequately defines ground-water quality at a given site. Water samples from wells are analyzed individually.

Temperature

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

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

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained daily at several verticals in the cross-section.

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 values differ from the values computed as the product of discharge times mean concentration times 0.0027, the sediment discharges were 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 stream.

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

Table 4 below, shows the annual series of water-supply papers that give information on quality of surface waters in Utah. Data for the Colorado River basin and for the Great Basin are given in Parts 9 and 10 in the listed reports.

Table 4.--Water-supply paper numbers,
water years 1947-70

<u>Year</u>	<u>WSP number</u>	<u>Year</u>	<u>WSP number</u>
1947	1102	1959	1645
1948	1133	1960	1745
1949	1163	1961	1885
1950	1189	1962	1945
1951	1200	1963	1951
1952	1253	1964	1958
1953	1293	1965	1965
1954	1353	1966	1995
1955	1403	1967	2015
1956	1453	1968	A2098
1957	1523	1969	A2148
1958	1574	1970	A2158

A In preparation.

SELECTED REFERENCES

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- Brown, Eugene, Skougstad, M. W., and Fishman, M. J., 1970, Methods for collection and analysis of water samples for dissolved minerals and gases: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. A1, 160 p.
- Colby, B. R., 1963, Fluvial sediments--a summary of source, transportation, deposition, and measurement of sediment discharge, U.S. Geol. Survey Bull. 1181-A, 47 p.

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

Guy, H. P., 1969, Laboratory theory and methods for sediment analysis: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. C1, 57 p.

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Guy, H. P., and Norman, V. W., 1970, Field methods for measurement of fluvial sediment: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C2, 59 p.

Hem, J. D., 1970, Study and interpretation of the chemical characteristics of natural water, 2d ed.: U.S. Geol. Survey Water-Supply Paper 1473, 363 p.

Langbein, W. B., and Iseri, K. T., 1960, General introduction and hydrologic definitions: U.S. Geol. Survey Water-Supply Paper 1541-A, 29 p.

Ritter, J. R., and Helley, E. J., 1969, Optical method for determining particle sizes of coarse sediment: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. C3.

U.S. Inter-Agency Committee on Water Resources, Subcommittee on Sedimentation, A study of methods used in measurement and analysis of sediment loads in streams. Published by the St. Anthony Falls Hydraulic Laboratory, Minneapolis, Minn.

_____, 1941, Methods of analyzing sediment samples: Rept. 4.

_____, 1957, The development and calibration of visual accumulation tube: Rept. 11.

_____, 1957, Some fundamentals of particle-size analyses: Rept. 12.

_____, 1959, Federal Inter-agency sedimentation instruments and reports: Rept. AA.

U.S. Inter-Agency Committee on Water Resources, Subcommittee on Sedimentation, A study of methods used in measurement and analysis of sediment loads in streams. Published by the St. Anthony Falls Hydraulic Laboratory, Minneapolis, Minn.

_____ 1961, The single stage sampler for suspended sediment:
Rept. 13.

_____ 1963, Determinations of fluvial sediment discharge:
Rept. 14.

09180000 DOLORES RIVER NEAR CISCO, UTAH

LOCATION.--Lat 38°47'50", long 109°11'40", in SW $\frac{1}{4}$ SE $\frac{1}{4}$, sec.18, T.23 S., R.25 E, Grand County, at gaging station 9 miles upstream from mouth, 13.5 miles downstream from Colorado-Utah State line, and 14 miles southeast of Cisco.

DRAINAGE AREA.--4,580 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: March 1951 to September 1972.

Water temperatures: March 1951 to September 1959, October 1964 to September 1972.

Sediment records: March 1951 to September 1964.

EXTREMES.--1971-72:

Specific conductance: Maximum daily, 16,000 micromhos Aug. 1; minimum daily, 680 micromhos May 7.

Water temperatures: Maximum, 27.5°C Aug. 9, 10; minimum, freezing point on several days during December and January.

Period of record:

Specific conductance: Maximum daily, 16,000 micromhos Aug. 1, 1972; minimum daily, 254 micromhos May 8, June 6, 1952.

Water temperatures (1951-59, 1968-72): Maximum, 29.0°C Aug. 14, 1958; minimum, freezing point on many days during winter period each year.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (CL) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT.												
20...	1900	8.0	352	5.8	210	42	120	8.9	142	0	680	100
NOV.												
15...	1310	7.0	176	7.9	120	61	770	32	178	0	460	1100
DEC.												
10...	1245	.0	217	--	120	52	410	20	196	0	370	640
JAN.												
02-04	--	--	238	8.6	130	52	390	19	181	0	370	600
09-10	--	--	220	9.5	160	77	1100	42	145	1	540	1700
10...	1230	.0	201	--	130	67	580	31	151	0	500	930
24-26	--	--	217	7.8	120	26	540	23	173	0	370	820
FEB.												
10...	1245	.0	173	--	120	63	560	30	213	0	380	960
MAR.												
09...	1200	9.5	640	--	79	34	160	10	169	0	260	180
20...	1130	14.0	596	6.9	65	25	130	7.8	142	0	150	170
APR.												
17...	1240	13.0	515	6.1	66	24	110	7.3	141	0	160	160
MAY												
19...	1230	18.0	562	6.2	93	42	370	18	140	0	290	570
JUNE												
26...	1330	21.0	434	7.3	79	28	180	12	150	0	240	270
JULY												
18...	1150	23.5	69	4.9	140	64	390	19	154	0	500	590
AUG.												
01-02	--	--	63	2.0	210	140	2200	99	124	0	970	3600
08-10	--	--	33	2.6	150	73	290	18	161	0	610	420
17...	1730	24.0	20	4.4	160	58	260	15	176	0	500	420
27-29	--	--	32	.1	270	170	1400	70	139	0	1300	2200
SEP.												
20...	1000	16.0	79	6.1	140	59	350	19	151	0	530	520

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHOPHOS- PHATE (PO ₄) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITU- ENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)
OCT.												
20...	.5	.78	.03	90	1240	1.69	1180	700	580	2.0	1700	7.4
NOV.												
15...	.3	1.7	.18	140	2650	3.60	1260	550	400	14	4420	8.0
DEC.												
10...	--	.83	.09	--	1710	2.32	1000	510	350	7.9	2940	7.8
JAN.												
02-04	.4	4.2	.03	130	1680	2.28	1080	540	390	7.3	2530	8.2
09-10	.5	16	.00	170	3770	5.13	2240	720	600	18	6250	8.4
10...	--	.77	.03	--	2320	3.16	1260	600	480	10	4130	8.0
24-26	.4	6.8	.00	120	2020	2.75	1180	410	260	12	3470	8.3
FEB.												
10...	--	1.0	.03	--	2220	3.02	1040	560	380	10	3980	8.2
MAR.												
09...	--	1.3	.03	--	812	1.10	1400	340	200	3.8	1280	7.4
20...	.2	1.6	.06	20	632	.86	1020	270	150	3.5	1110	7.6
APR.												
17...	.3	2.0	.00	60	612	.83	851	260	150	2.9	1050	7.5
MAY												
19...	.1	2.1	.12	90	1470	2.00	2230	400	290	8.0	2610	7.5
JUNE												
26...	.2	2.4	.03	80	901	1.23	1060	310	190	4.4	1420	8.0
JULY												
18...	.6	4.3	.00	150	1800	2.45	337	610	490	6.9	2970	7.6
AUG.												
01-02	.7	3.3	.03	--	7300	9.93	1240	1100	1000	29	10800	8.0
08-10	.6	3.7	.00	--	1660	2.26	148	670	540	4.9	2580	8.0
17...	.7	1.9	.03	180	1510	2.05	81.5	640	490	4.5	2420	7.5
27-29	.8	4.0	.03	--	5500	7.48	475	1400	1300	16	8100	8.0
SEP.												
20...	.5	3.4	.03	190	1710	2.33	365	590	470	6.3	2770	8.0

DOLORES RIVER BASIN

09180000 DOLORES RIVER NEAR CISCO, UTAH--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE DIS-
SOLVED
OXYGEN
(MG/L)

OCT.
20... 9.5
NOV.
15... 10.4
DEC.
10... 12.4
JAN.
10... 12.4
FEB.
10... 10.6
MAR.
09... 10.0
20... 9.5
APR.
17... 9.1
MAY
19... 7.6
JUNE
26... 6.0

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	2000	5500	---	3500	---	---	955	---	---	16000	9000
2	4900	2200	5300	2200	3500	2800	1400	850	605	---	9000	---
3	6000	2700	4600	---	5200	2450	1940	730	---	1800	---	8000
4	4900	---	---	2500	3300	---	2020	730	590	---	2300	---
5	2700	3400	3000	3300	---	2300	3150	770	---	2140	---	8100
6	2900	---	3600	4200	3500	3000	1800	---	630	2250	---	7500
7	---	3450	2900	4400	3500	3300	1800	550	620	---	---	6000
8	3450	3500	2900	---	3500	2550	---	795	---	---	2590	---
9	---	3750	2900	6500	---	1290	2300	400	600	2370	2550	---
10	3500	3800	---	6100	3250	1220	2810	1100	---	2500	2600	7000
11	3550	3900	---	4250	3900	2450	---	1170	560	2730	---	7300
12	---	---	---	4150	---	1080	2710	1430	545	2700	---	5050
13	4000	---	---	---	5500	1020	---	---	555	2310	---	3400
14	4100	4300	---	3700	---	710	1610	2200	---	---	3350	3000
15	---	4300	---	---	5500	880	---	2250	725	---	3310	5500
16	3600	---	---	3200	5600	790	1220	2400	800	2710	3100	---
17	2580	4200	---	3150	3500	855	1070	2600	---	2810	2910	---
18	2250	---	---	3100	3500	---	1220	2900	960	3020	2550	3550
19	1800	4500	---	3400	---	975	1400	---	1120	3000	---	---
20	1820	4300	---	4100	3700	---	---	---	1180	2910	3420	3000
21	1820	3500	---	4000	3600	1140	1500	---	---	3050	3500	1950
22	---	3300	---	---	3800	1180	---	---	1440	---	1850	3400
23	---	3600	---	3600	3700	1220	1400	785	1600	3400	6400	---
24	2080	4600	---	3500	3500	1350	1800	795	---	3400	7500	1850
25	2180	---	---	3300	3100	---	1900	---	1690	3550	---	1670
26	2310	---	---	3600	---	---	---	840	1450	3600	---	2550
27	---	4500	1650	---	2450	1850	1040	770	1500	3890	9500	---
28	3750	4350	1820	3500	2450	1450	---	---	1840	3280	9000	2800
29	---	4600	1650	---	2450	---	---	740	1900	---	8500	2800
30	---	5750	1850	5200	---	1700	810	870	1640	3810	8400	---
31	1920	---	1940	5400	---	1350	---	775	---	2900	8700	---
MONTH	---	---	---	---	4150	---	---	---	---	---	---	---

DOLORES RIVER BASIN

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09180000 DOLORES RIVER NEAR CISCO, UTAH--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	5.0	5.5	---	1.5	---	---	14.5	---	---	20.0	23.5
2	11.0	5.0	5.5	1.0	1.0	5.0	12.0	15.0	19.5	---	20.0	---
3	14.0	6.5	4.0	---	1.0	9.0	12.5	17.0	---	25.0	---	22.0
4	14.0	---	---	0.0	1.0	---	14.0	15.0	18.0	---	27.0	---
5	14.0	5.0	3.5	0.0	---	10.0	12.5	16.0	---	25.0	---	22.0
6	14.5	---	3.5	0.0	1.0	9.0	14.5	---	18.5	26.0	---	20.0
7	---	7.0	5.0	0.0	1.0	10.5	15.0	16.0	18.5	---	---	22.0
8	16.0	5.0	2.5	---	1.0	10.0	---	16.5	---	---	27.0	---
9	---	5.5	2.5	0.0	---	11.0	16.0	16.0	18.0	23.5	27.5	---
10	16.0	7.0	---	1.0	2.0	11.0	14.5	15.5	---	22.5	27.5	21.0
11	14.0	7.0	---	1.0	3.0	7.5	---	15.0	20.0	24.0	---	20.5
12	---	---	---	1.0	---	11.0	15.0	15.0	18.5	24.0	---	20.5
13	14.5	---	---	---	3.5	11.5	---	---	19.5	26.0	---	20.0
14	14.0	7.5	---	1.0	---	11.5	11.0	16.0	---	---	25.0	20.0
15	---	5.5	---	---	3.5	11.0	---	16.5	19.5	---	26.0	20.0
16	11.0	---	---	2.0	5.0	11.0	15.0	20.0	21.0	24.5	26.0	---
17	9.5	5.0	---	2.0	5.5	11.0	15.0	18.0	22.0	26.0	24.5	---
18	9.5	---	---	2.0	5.0	---	12.5	16.0	22.0	23.5	23.5	20.0
19	9.0	4.0	---	1.5	---	11.0	12.5	---	22.0	22.5	---	---
20	9.0	4.5	---	2.0	5.0	---	---	---	24.0	22.5	23.5	18.0
21	9.0	4.5	---	2.5	5.0	17.5	15.0	---	25.0	21.5	23.5	17.5
22	---	4.5	---	---	5.5	11.0	---	---	25.5	---	23.5	18.5
23	---	4.0	---	3.0	5.5	11.0	15.0	14.0	19.5	25.0	22.0	---
24	9.5	4.5	---	2.0	5.5	9.5	17.0	14.0	---	25.0	23.0	18.0
25	10.0	---	---	1.5	5.5	---	15.0	---	22.0	26.0	---	17.0
26	10.0	---	---	3.5	---	---	---	12.5	22.0	26.0	---	17.0
27	---	5.5	0.0	---	5.0	9.0	14.5	14.5	22.0	27.0	21.0	---
28	10.0	5.5	0.0	3.0	5.5	9.0	---	---	24.0	27.0	23.0	17.0
29	---	5.5	2.0	---	5.5	---	---	19.0	25.0	---	22.5	17.0
30	---	5.5	2.0	1.0	---	9.0	14.0	19.0	25.5	27.0	23.0	---
31	6.0	---	1.0	1.0	---	10.0	---	19.0	---	27.0	23.5	---
MONTH	---	---	---	---	4.5	---	---	---	---	---	---	---

COLORADO RIVER MAIN STEM

09180500 COLORADO RIVER NEAR CISCO, UTAH
(Irrigation network station)

LOCATION.--Lat 38°48'40", long 109°17'35", in NW¼NW¼ sec.17, T.23 S., R.24 E., Grand County, at gaging station, 1 mile downstream from Dolores River, 11 miles south of Cisco, 36 miles downstream from Colorado-Utah State line, 97 miles upstream from Green River, and 235 miles upstream from San Juan River.

DRAINAGE AREA.--24,100 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: August 1928 to September 1972.

Water temperatures: May 1949 to September 1959, October 1964 to September 1972.

Sediment records: May 1930 to September 1972.

EXTREMES.--1971-72:

Specific conductance: Maximum daily, 2,290 micromhos Aug. 1; minimum daily, 460 micromhos June 2.

Water temperatures: Maximum, 26.0°C Aug. 1; minimum, freezing point on several days during December and January.

Sediment concentrations: Maximum daily, 17,400 mg/l Sept. 20; minimum daily, 19 mg/l Nov. 28.

Sediment loads: Maximum daily, 295,000 tons Sept. 20; minimum daily, 202 tons Nov. 28.

Period of record:

Specific conductance (1941-52, 1953-72): Maximum daily, 4,820 micromhos Dec. 13, 1957; minimum daily, 291 micromhos May 31, 1953.

Water temperatures (1949-52, 1953-59, 1964-72): Maximum, 29.0°C July 29, 1966; minimum, freezing point on many days during winter period each year.

Sediment concentrations: Maximum daily, 69,000 mg/l Oct. 27, 1951; minimum daily, 4 mg/l Aug. 22, 1960.

Sediment loads: Maximum daily, 2,790,000 tons Oct. 14, 1941; minimum daily, 14 tons Aug. 22, 1960.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPER- ATURE (DEG C)	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)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT.												
13...	1240	15.0	3580	9.3	120	44	130	5.2	193	0	440	110
NOV.												
23...	1240	2.0	4060	11	91	32	120	5.0	172	0	300	130
DEC.												
22...	1100	.0	5380	--	98	34	140	7.5	203	0	330	150
JAN.												
07...	1130	.0	5690	--	96	33	120	5.7	167	0	310	120
FEB.												
24...	1000	3.0	5060	--	83	30	120	5.8	171	0	250	140
MAR.												
10...	1240	11.0	3940	--	81	27	100	6.0	180	0	240	97
APR.												
14...	1000	11.0	4460	9.5	88	27	100	5.6	162	0	250	110
MAY												
24...	1000	14.5	10190	9.0	60	18	52	3.5	127	0	150	45
JUNE												
16...	1530	19.5	11510	9.0	59	17	47	3.2	122	0	160	42
JULY												
24...	1300	22.0	2120	5.8	160	55	160	6.9	189	0	560	160
AUG.												
18...	1330	22.5	1760	9.0	180	66	160	5.9	192	0	710	140
SEP.												
12...	1330	19.5	3310	13	160	57	210	8.4	224	0	580	200

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (P04) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)
OCT.												
13...	.6	1.3	.00	120	960	1.31	9280	480	320	2.6	1520	8.3
NOV.												
23...	.4	1.2	.03	100	779	1.06	8540	360	220	2.8	1250	8.0
DEC.												
22...	--	.99	.00	--	864	1.18	12600	380	220	3.1	1350	7.7
JAN.												
07...	--	.91	.03	--	781	1.06	12000	380	220	2.7	1220	7.9
FEB.												
24...	--	.85	.00	--	717	.98	9800	330	190	2.9	1190	8.1
MAR.												
10...	--	2.0	.06	--	648	.88	6890	310	170	2.5	1010	7.8
APR.												
14...	.3	1.0	.12	70	675	.92	8130	330	200	2.4	1080	8.0
MAY												
24...	.2	.83	.03	40	404	.55	11100	220	120	1.5	640	6.6
JUNE												
16...	.1	.75	.03	60	401	.55	12500	220	120	1.4	628	7.6
JULY												
24...	.5	1.5	.09	190	1210	1.65	6930	630	470	2.8	1740	7.9
AUG.												
18...	.5	1.3	.03	190	1370	1.86	6510	720	560	2.6	1950	7.7
SEP.												
12...	.5	1.4	.03	220	1350	1.84	12100	630	450	3.6	1920	8.2

COLORADO RIVER MAIN STEM

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09180500 COLORADO RIVER NEAR CISCO, UTAH--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DISE- SOLVED OXYGEN (MG/L)
OCT.	
13...	8.4
NOV.	
23...	11.5
DEC.	
22...	12.5
JAN.	
07...	12.5
FEB.	
24...	12.6
MAR.	
10...	10.0
APR.	
14...	9.3
MAY	
24...	8.0
JUNE	
16...	7.4

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	1240	1270	---	1050	1120	---	1120	530	---	2290	1900
2	1260	1280	1310	1100	1130	1020	965	1140	460	920	1700	---
3	1380	1300	1250	---	1200	1060	1070	1140	---	965	1750	1900
4	1450	---	---	1080	1200	---	1100	1140	470	---	1550	---
5	1320	1240	1280	1280	---	1020	1140	1130	---	1100	---	1850
6	1320	---	1230	1230	1120	1060	1150	---	510	1400	---	1830
7	1300	1050	1230	1020	1210	1080	1220	990	540	1140	1650	1790
8	1140	1170	1190	---	1240	1060	---	925	495	---	1640	1800
9	---	1180	1250	1300	---	1060	1210	920	490	1400	1650	---
10	1320	1200	1180	1280	1180	1060	1180	955	---	1140	1650	1860
11	---	1160	---	1240	1120	---	---	965	510	1210	1680	1850
12	1400	---	1140	1180	1040	1120	1080	955	520	1240	---	1800
13	1400	---	---	---	---	1280	1160	---	490	1270	---	1610
14	1390	1240	1240	1060	---	1000	950	935	520	1230	1700	1600
15	---	1240	1230	---	1140	1000	---	960	560	---	1870	1600
16	1410	1170	1140	1100	1200	960	890	990	570	1260	1850	---
17	1370	1180	1080	1100	1160	915	910	1060	---	1320	1840	1550
18	1680	---	---	1060	1130	---	1000	1010	685	1360	1850	1600
19	1380	1230	---	1140	---	960	1060	---	665	1400	---	---
20	1600	1230	1070	1060	1120	---	---	---	655	1450	1850	1810
21	1470	1240	1240	1070	---	975	1150	720	650	1550	1820	1470
22	---	1250	1310	---	1130	950	---	---	710	---	1690	1620
23	---	1280	1060	1100	1150	980	1120	625	720	1620	1650	---
24	1500	1270	---	1040	1160	915	1160	650	---	1640	1710	1380
25	1390	---	---	1070	1080	---	1230	---	755	1650	1840	1400
26	1360	1230	---	1130	---	---	---	670	730	1650	1820	1480
27	---	1100	1060	---	1040	1000	1150	640	715	1740	---	---
28	1360	1260	1190	1150	1060	995	---	---	765	1740	1810	1520
29	---	1280	1240	---	1060	1020	---	585	805	---	1850	1560
30	---	1310	1110	1060	---	995	1040	560	835	1700	1890	---
31	1300	---	1110	1070	---	970	---	535	---	1640	1840	---
MONTH	---	1220	---	---	---	1020	---	---	614	1390	1780	---

COLORADO RIVER MAIN STEM

09180500 COLORADO RIVER NEAR CISCO, UTAH--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	6.0	5.0	---	1.0	7.0	---	14.0	15.5	---	26.0	22.0
2	10.5	6.0	5.0	2.0	1.0	7.0	11.0	15.0	15.5	23.5	23.0	---
3	12.0	6.5	4.5	---	1.0	7.5	12.0	16.0	---	22.0	24.0	21.0
4	12.0	---	---	0.0	1.0	---	12.5	16.0	15.5	---	24.0	---
5	12.5	6.5	3.0	0.0	---	8.5	14.5	16.0	---	22.0	---	21.0
6	12.5	---	3.0	0.0	1.5	9.0	14.0	---	15.5	23.0	---	19.0
7	14.0	6.5	3.0	0.0	1.5	9.5	14.5	15.0	16.0	23.5	24.0	21.0
8	15.0	6.5	3.0	---	1.5	9.5	---	15.5	16.0	---	24.5	20.5
9	---	6.0	2.5	0.0	---	10.0	15.5	15.0	16.0	22.0	24.5	---
10	15.5	6.5	0.0	0.0	3.0	11.0	14.5	14.5	---	21.5	25.0	20.0
11	---	7.0	---	1.0	3.0	---	---	14.5	16.0	23.0	25.0	19.5
12	14.0	---	0.0	1.0	4.0	11.5	14.0	14.0	16.0	23.0	---	19.5
13	14.0	---	---	---	---	11.5	12.0	---	16.0	24.0	---	19.0
14	14.0	7.0	0.0	1.0	---	11.5	11.5	15.0	15.5	24.0	23.5	19.0
15	---	6.5	0.0	---	4.0	11.0	---	16.0	16.5	---	24.0	19.0
16	11.5	6.0	0.0	1.5	4.5	11.0	14.0	17.0	17.5	24.5	24.5	---
17	10.0	6.0	0.0	2.0	5.0	10.0	14.5	16.5	---	24.0	23.0	19.0
18	9.0	---	---	2.0	5.5	---	12.5	16.5	18.0	24.0	22.5	19.0
19	9.0	4.0	---	1.0	---	11.0	12.5	---	18.0	23.0	---	---
20	9.5	4.0	0.0	2.0	7.0	---	---	---	19.0	23.0	22.5	17.0
21	9.5	4.5	0.0	2.0	---	11.5	14.0	16.0	19.5	22.0	22.0	16.5
22	---	4.0	0.0	---	8.0	11.0	---	---	18.0	---	22.0	17.0
23	---	3.5	0.0	3.0	8.0	11.0	14.0	14.0	18.5	23.0	21.0	---
24	9.5	4.0	---	2.5	8.5	11.0	16.0	14.0	---	23.0	22.0	17.5
25	9.0	---	---	2.0	8.0	---	14.5	---	19.5	24.5	19.5	16.5
26	10.5	4.0	---	2.5	---	---	---	12.0	19.0	24.0	20.0	16.5
27	---	5.0	3.0	---	7.0	9.5	14.0	14.0	19.0	24.0	---	---
28	10.0	5.0	2.5	3.0	8.0	9.0	---	---	20.0	24.0	21.5	16.0
29	---	5.0	2.5	---	8.0	9.0	---	15.0	22.0	---	22.0	16.5
30	---	5.0	3.0	1.0	---	9.0	14.0	15.0	23.0	24.0	22.0	---
31	6.0	---	2.0	1.0	---	9.5	---	15.0	---	24.0	23.0	---
MONTH	---	5.5	---	---	---	10.0	---	---	17.5	23.5	23.0	---
YEAR	12.5											

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4400	200	2380	4610	248	3090	4370	57	673
2	4120	273	3040	4830	204	2660	4330	54	631
3	4280	310	3580	4730	379	4840	4150	59	661
4	4420	355	4240	4630	300	3750	4400	68	808
5	4360	168	1980	5160	221	3080	4480	76	919
6	4800	215	2790	5360	193	2790	4190	52	588
7	5160	208	2900	4950	165	2210	3560	70	673
8	4670	114	1440	4720	126	1610	4510	87	1060
9	3760	88	893	4430	61	730	4140	88	984
10	3760	63	640	5030	120	1630	3970	84	900
11	3720	53	532	4980	89	1200	4090	80	883
12	3720	43	432	4750	87	1120	4790	75	970
13	3610	34	331	4830	85	1110	4000	71	767
14	3800	33	339	4940	82	1090	3540	66	631
15	3880	44	461	4850	204	2670	4630	62	775
16	4400	54	642	5000	181	2440	4830	73	952
17	5470	5940	95100	5210	213	3000	4970	57	765
18	7850	12500	264000	4760	359	4610	4310	67	780
19	5800	6600	103000	4840	505	6600	4360	77	906
20	4760	3670	47200	4700	151	1920	3930	87	923
21	4520	1210	14800	4410	95	1130	3170	146	1250
22	4090	872	9630	4160	62	696	4660	207	2600
23	3960	534	5710	4240	74	847	4630	200	2500
24	4370	196	2310	4890	87	1150	4990	230	3100
25	4510	321	3910	4540	57	699	5930	270	4320
26	4400	853	10100	3980	27	290	6260	1400	23700
27	4550	634	7790	3920	22	233	6630	2300	41200
28	4750	415	5320	3930	19	202	6080	3300	54200
29	4990	394	5310	3920	25	265	5640	2400	36500
30	4900	373	4930	3900	30	316	4930	1300	17300
31	5210	351	4940	---	---	---	4780	700	9030
TOTAL	140990	---	610670	139200	---	57978	143250	---	211949

09180500 COLORADO RIVER NEAR CISCO, UTAH--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4520	200	2440	2970	31	248	4590	126	1560
2	4180	197	2220	3620	51	498	4400	76	903
3	3780	153	1560	3510	45	426	4400	84	998
4	3400	109	1000	3560	69	663	4060	77	844
5	4270	66	761	3550	148	1420	3980	71	763
6	4440	127	1520	3880	227	2380	4190	64	724
7	4690	310	3930	4060	133	1460	3910	150	1580
8	4540	250	3060	3830	119	1230	4570	242	2990
9	4440	190	2280	4340	90	1050	4860	392	5140
10	4220	130	1480	3820	60	620	3860	487	5080
11	3730	69	695	4290	163	1890	3600	482	4680
12	4570	160	1970	3890	105	1100	4270	518	5970
13	4810	239	3100	3850	47	489	5200	545	7650
14	5170	318	4440	3600	50	486	4900	527	6970
15	4960	238	3190	3570	53	511	5670	622	9520
16	4470	159	1920	3950	98	1050	5540	545	8150
17	4160	95	1070	4040	83	905	5420	423	6190
18	3630	51	500	3660	43	425	4920	313	4160
19	4780	174	2250	4080	52	573	4820	203	2640
20	4850	190	2490	4110	62	688	4920	194	2580
21	4900	178	2350	4210	72	818	4920	185	2460
22	4710	151	1920	4230	81	925	4910	178	2360
23	4830	124	1620	4270	82	945	4480	192	2320
24	4340	99	1160	4570	147	1810	4480	145	1750
25	3980	87	935	4400	150	1780	4510	130	1580
26	4030	112	1220	4500	125	1520	4320	115	1340
27	4010	108	1170	4260	100	1150	4090	99	1090
28	4270	105	1210	4110	124	1380	4010	77	834
29	4210	79	898	3550	111	1060	4190	105	1190
30	4010	53	574	--	--	--	4480	191	2310
31	3830	58	600	--	--	--	4180	198	2230
TOTAL	134730		55533	114280		29500	140650		98556

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3970	155	1660	3560	202	1940	14900	1740	70000
2	3500	112	1060	3930	296	3140	15500	1680	70300
3	3040	77	632	4080	303	3340	16200	1490	65200
4	2990	98	791	4150	254	2850	16400	1300	57600
5	2910	141	1110	4550	381	4680	16300	1320	58100
6	2690	89	646	5210	438	6160	16400	1330	58900
7	2730	121	892	5580	494	7440	16900	1140	52000
8	2670	118	851	5860	481	7610	18000	1310	63700
9	2710	115	841	5740	461	7140	18700	1440	72700
10	2940	124	984	5320	416	5980	19000	1160	59500
11	3210	144	1250	5420	372	5440	17500	894	42200
12	3460	165	1540	5640	408	6210	16600	797	35700
13	3640	209	2050	5660	350	5350	15500	706	29500
14	4610	313	3900	5300	393	5620	14000	635	24000
15	4470	276	3330	4960	291	3900	12500	402	13600
16	4030	238	2590	4590	266	3300	11400	656	20200
17	3470	160	1500	4770	282	3630	10800	577	16800
18	3030	143	1170	6120	550	9090	10800	498	14500
19	3020	117	954	7480	700	14100	10700	475	13700
20	3190	114	982	8600	1300	30200	10400	311	8730
21	3180	110	944	9480	1990	50900	9790	347	9170
22	3120	108	910	10800	2550	74400	9100	317	7790
23	2850	107	823	11000	1350	40100	9020	277	6750
24	2680	93	673	10100	880	24000	9100	321	7890
25	2740	110	814	9250	700	17500	9440	365	9300
26	3570	378	3640	9510	700	18000	8900	229	5500
27	4570	647	7980	10400	1000	28100	8240	199	4430
28	4730	509	6500	11700	1650	52100	7440	254	5100
29	4240	371	4250	12300	1600	53100	6750	194	3540
30	3700	232	2320	13200	2450	87300	6290	188	3190
31	--	--	--	14100	1950	74200	--	--	--
TOTAL	101660		57587	228360		656820	382570		909590

COLORADO RIVER MAIN STEM

09180500 COLORADO RIVER NEAR CISCO, UTAH--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TUNS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TUNS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TUNS/DAY)
1	5530	175	2610	2140	147	847	2050	176	974
2	5170	162	2260	2050	170	941	1990	160	860
3	4910	163	2160	1980	156	834	2130	145	834
4	4500	144	1750	1950	114	600	2270	220	1350
5	4230	124	1420	2080	136	764	2410	294	1910
6	4040	411	4480	2100	156	896	2440	228	1500
7	3930	123	1310	2100	151	1030	2540	365	2500
8	3780	198	2020	1900	316	1620	2800	789	5960
9	3690	263	2620	1950	269	1420	3290	580	5150
10	3640	125	1230	1850	179	894	3420	371	3430
11	3530	132	1260	1700	176	808	3410	308	2840
12	3320	120	1080	1800	148	717	3380	304	2770
13	3280	135	1200	1700	120	551	3480	357	3350
14	3200	92	795	1650	93	414	3420	354	3270
15	3040	82	673	1600	82	354	3200	326	2820
16	2790	72	542	1650	98	437	3080	280	2330
17	2570	58	402	1700	78	355	2980	235	1890
18	2470	63	420	1750	82	387	2920	212	1670
19	2270	65	398	1800	170	826	2900	250	1960
20	2150	63	366	2100	500	2840	6340	17400	295000
21	2100	77	437	2510	760	5150	5510	15000	223000
22	2100	77	437	2210	300	1790	4950	9700	130000
23	2100	77	437	2150	650	3770	4420	3800	45300
24	2120	73	416	2130	640	3680	4060	1100	12100
25	2120	62	355	1980	420	2250	3990	500	5390
26	2100	68	386	1920	332	1720	3780	408	4160
27	2250	72	437	1930	244	1270	3680	376	3740
28	2670	75	541	1960	263	1390	3520	344	3270
29	2420	167	1090	1980	215	1150	3440	252	2340
30	2290	259	1600	1950	184	969	3380	250	2280
31	2250	168	1020	1950	145	763	--	--	--
TOTAL	96560	--	36154	60220	--	41444	101180	--	773948
TOTAL DISCHARGE FOR YEAR (CFS-DAYS)									1783650
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TUNS)									3539729

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
OCT.							
18...	1830	9.0	7500	10700	217000	42	45
OCT.							
27...	1720	3.0	5620	2380	42500	40	53
MAR.							
10...	1210	8.5	3500	459	4710	40	50
APR.							
14...	1430	11.0	4460	258	3110	32	45
JUNE							
16...	1440	19.5	11510	684	21300	27	32
SEP.							
12...	1235	19.5	3310	225	2040	47	67
20...	1745	17.0	6500	16000	281000	52	72
21...	1805	16.5	5780	16000	250000	51	74

COLORADO RIVER MAIN STEM

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09180500 COLORADO RIVER NEAR CISCO, UTAH--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.
	% FINER THAN	% FINER THAN	% FINER THAN	% FINER THAN	% FINER THAN	% FINER THAN
DATE	.016 MM	.062 MM	.125 MM	.250 MM	.500 MM	1.00 MM
OCT. 18...	78	97	99	100	--	--
DEC. 27...	79	95	98	100	--	--
MAR. 10...	85	97	99	100	--	--
APR. 14...	73	93	96	100	--	--
JUNE 16...	55	78	89	98	100	--
SEP. 12...	--	100	--	--	--	--
20...	92	100	--	--	--	--
21...	94	100	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.
	% FINER THAN	% FINER THAN	% FINER THAN	% FINER THAN	% FINER THAN	% FINER THAN
DATE	1.00 MM	2.00 MM	4.00 MM	8.00 MM	16.0 MM	32.0 MM
APR. 14...	6	7	9	13	26	82

GREEN RIVER BASIN

09229500 HENRYS FORK NEAR MANILA, UTAH
(Formerly published as Henrys Fork at Linwood, Utah)

LOCATION.--Lat 41°00'45", long 109°40'20", in NW¼NW¼ sec.23, T.12 N., R.109 W., Sweetwater County, Wyoming, at gaging station, 0.8 mile north of Wyoming-Utah State line, 1.3 miles upstream from normal high-water line of Flaming Gorge Reservoir, 1.5 miles northwest of former townsite of Linwood, and 3 miles northeast of Manila, Utah.

DRAINAGE AREA.--520 sq mi.

PERIOD OF RECORD.--Chemical analyses: March 1951 to September 1972.

Water temperatures: March 1951 to September 1972.

EXTREMES.--1971-72:

Specific conductance: Maximum daily, 1,860 micromhos Aug. 17; minimum daily, 449 micromhos June 1.

Water temperatures: Maximum, 24.5°C June 30, July 15, 16; minimum, freezing point on many days during winter period.

Period of record:

Specific conductance: Maximum daily, 3,750 micromhos Oct. 15, 1961; minimum daily, 385 micromhos June 16, 1968.

Water temperatures: Maximum, 29.0°C July 29, 1968; minimum, freezing point on many days during winter period each year.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPER- ATURE (DEG C)	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)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT. 08...	1215	10.5	36	22	150	79	58	9.3	278	0	570	17
NOV. 12...	1320	.0	100	20	120	55	44	8.1	263	0	380	14
DEC. 04...	1200	.0	49	22	150	74	53	8.9	313	0	500	20
JAN. 19...	1330	.0	42	19	140	62	42	11	291	0	430	17
MAR. 03...	1100	1.0	240	15	82	29	35	7.9	210	0	230	12
APR. 04...	1045	7.0	54	17	120	53	42	7.0	284	0	350	17
MAY 17...	1435	--	107	15	76	30	23	5.9	196	0	190	10
JUNE 15...	1600	17.0	300	18	79	31	21	5.6	217	0	200	8.6
JULY 11...	1200	16.5	32	31	160	69	59	10	299	0	530	21
AUG. 08...	1130	18.5	2.8	23	190	100	81	12	296	0	800	29
SEP. 08...	1200	14.5	8.6	24	200	100	74	12	283	0	790	28

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 BORON (B) (UG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)
OCT. 08...	.7	.03	--	240	1040	1.41	101	700	470	1.0	1430	8.0
NOV. 12...	.4	.15	--	170	772	1.05	208	530	310	.8	1100	8.0
DEC. 04...	.5	.04	--	210	983	1.34	130	680	420	.9	1340	7.9
JAN. 19...	.1	.11	--	170	865	1.18	99.0	600	370	.7	1210	7.8
MAR. 03...	.3	.12	--	110	515	.70	334	320	150	.8	777	7.9
APR. 04...	.4	.00	--	160	746	1.01	109	520	280	.8	1060	8.2
MAY 17...	.3	.11	--	130	447	.61	129	310	150	.6	676	8.1
JUNE 15...	.4	.03	--	130	471	.64	382	320	150	.5	720	7.7
JULY 11...	.6	.02	--	230	1030	1.40	89.0	680	440	1.0	1390	8.1
AUG. 08...	.8	.08	--	360	1380	1.88	10.4	890	640	1.2	1800	7.8
SEP. 08...	.7	.13	--	300	1370	1.86	31.8	910	680	1.1	1750	8.1

GREEN RIVER BASIN

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09229500 HENRYS FORK NEAR MANILA, UTAH--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1570	1230	1240	1250	1240	905	1110	969	449	---	1600	1470
2	1550	1090	1230	1240	1240	869	1120	1050	456	1290	1270	1470
3	1450	1100	1300	1240	1240	793	1050	1060	470	1280	1270	1450
4	1360	1100	1300	1240	1260	794	1080	1030	462	1300	1610	1460
5	1370	1080	1260	1240	1260	794	1060	886	475	1290	1270	1470
6	1380	1030	1350	1240	1200	810	1060	889	534	1320	1260	1470
7	1340	1180	1320	1250	1200	726	1010	885	529	1370	1270	1700
8	1410	1120	1350	1220	1120	855	1030	890	515	1390	1290	1450
9	1410	1100	1360	1220	1150	863	1040	885	559	1390	1360	1470
10	1420	1110	1310	1220	1130	781	1040	868	553	1340	1760	1480
11	1420	1120	1550	1220	1150	782	1030	879	573	1360	1780	1720
12	1440	1060	1580	1220	1800	817	1040	914	586	1370	1570	1480
13	1480	1110	1570	1220	1800	814	953	938	513	1410	1810	1480
14	1490	1110	1540	1220	1140	900	960	930	732	1430	1840	1450
15	1550	1110	1300	1220	1070	933	1120	834	781	1430	1520	1470
16	1550	1120	1300	1210	1100	980	1120	759	646	1440	1560	1480
17	1350	1300	1310	1190	1140	933	884	652	745	1220	1860	1470
18	1540	1300	1300	1190	1130	926	948	605	751	1500	1490	1460
19	1320	1230	1310	1160	1120	949	953	568	786	1540	1710	1490
20	1390	1260	1300	1170	1010	952	1020	572	815	1420	1310	1490
21	1360	1210	1240	1130	941	1010	1020	610	912	1260	1640	1490
22	1270	1210	1240	1160	936	985	986	655	889	1620	1660	1490
23	1260	1210	1230	1130	957	982	986	644	972	1610	1410	1490
24	1270	1180	1220	1130	952	949	994	667	924	1630	1650	1490
25	1140	1200	1190	1100	1030	1020	983	636	985	1360	1670	1670
26	1140	1200	1210	1100	1110	968	974	595	1010	1450	1700	1480
27	1160	1200	1210	1100	1010	966	1000	---	1050	1560	1380	1470
28	1100	1200	1260	1260	823	1080	994	592	1110	1520	1710	1460
29	1190	1170	1260	1260	827	1110	1010	470	1190	1270	1710	1440
30	1310	1170	1260	1250	---	1220	983	470	1240	1500	1390	1450
31	1220	---	1260	1280	---	1200	---	460	---	1500	1400	---
MONTH	1360	1160	1310	1200	1140	925	1020	762	740	1410	1540	1490

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

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

GREEN RIVER BASIN

09234500 GREEN RIVER NEAR GREENDALE, UTAH
(Irrigation network station)

LOCATION.--Lat 40°54'30", long 109°25'20", NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.15, T.22 N., R.22 E., Daggett County, at gaging station, 0.5 mile downstream from Flaming Gorge Dam, 2 miles south of Dutch John, and 4 miles northeast of Greendale.

DRAINAGE AREA.--15,100 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: October 1956 to September 1972.

Water temperatures: October 1956 to September 1959, October 1963 to September 1972.

Sediment records: October 1956 to September 1959.

EXTREMES.--1971-72:

Specific conductance: Maximum observed, 1,060 micromhos Nov. 9; minimum daily, 660 micromhos Jan. 3.

Water temperatures: Maximum, 9.0°C on several days during October and November; minimum, 4.5°C on many days during January to May.

Period of record (See REMARKS below):

Specific conductance (1956-58, 1959-62): Maximum daily, 1,340 micromhos Aug. 30, 1961; minimum daily, 325 micromhos June 2, 1961.

Specific conductance (1964-72): Maximum observed, 1,060 micromhos Nov. 9, 1971; minimum daily, 606 micromhos Nov. 14, 22, 1963, Feb. 10-19, 1964.

Water temperatures (1956-59): Maximum, 24.0°C Jan. 24, 25, 1959; minimum, freezing point on many days during winter period each year.

Water temperatures (1964-72): Maximum, 14.0°C Nov. 11, 1963; minimum, 2.0°C on several days in 1964.

REMARKS.--Storage in Flaming Gorge Reservoir began on Nov. 1, 1962. Extremes are given above for two separate periods--1956-62, and 1964-72. Extremes for the 1963 water year (October 1962 to September 1963) are not included.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (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 POTAS- SIUM (K) (MG/L)	BICAR- BONATE (HC03) (MG/L)	CAR- BONATE (C03) (MG/L)	DIS- SOLVED SULFATE (S04) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT. 12...	1000	7.0	2290	6.1	67	25	64	2.5	184	0	220	18
NOV. 09...	1030	7.0	4080	7.5	80	29	78	3.3	263	0	270	21
DEC. 06...	1030	6.0	4230	--	58	24	59	2.9	184	0	210	16
JAN. 17...	1030	4.0	2800	--	63	23	53	4.2	185	0	190	29
FEB. 07...	1200	3.0	3110	--	83	24	51	3.0	184	0	200	18
MAR. 23...	1000	4.5	1050	--	65	24	55	5.6	198	0	200	20
APR. 24...	0930	5.0	3390	5.9	74	25	54	3.1	204	0	210	18
MAY 23...	0800	5.0	4330	4.9	65	24	50	2.8	192	0	190	16
JUNE 06...	0900	5.0	3720	4.8	64	23	48	2.7	193	0	190	13
JULY 03...	0800	5.5	2340	4.6	67	24	52	2.9	193	0	190	16
AUG. 02...	0700	7.0	4100	5.2	63	24	54	2.6	191	0	200	14
SEP. 05...	0800	7.0	1020	4.8	66	24	52	2.6	194	0	210	14

GREEN RIVER BASIN

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09234500 GREEN RIVER NEAR GREENDALE, UTAH--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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 BORON (B) (UG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (IONS 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)
OCT. 12...	.4	.47	.03	100	496	.67	3070	270	120	1.7	775	7.7
NOV. 09...	.3	.62	.09	110	621	.84	6840	320	100	1.9	1060	7.8
DEC. 06...	--	.27	.03	--	462	.63	5280	240	93	1.6	752	7.9
JAN. 17...	--	.26	.00	--	454	.62	3430	250	100	1.5	695	8.1
FEB. 07...	--	.29	.00	--	471	.64	3950	310	160	1.3	703	8.2
MAR. 23...	--	.46	.00	--	470	.64	1330	260	99	1.5	736	8.1
APR. 24...	.4	.46	.03	100	493	.67	4510	290	120	1.4	723	8.0
MAY 23...	.3	.53	.06	80	450	.61	5260	260	100	1.3	706	6.9
JUNE 06...	.1	.46	.00	90	443	.60	4450	250	96	1.3	708	7.4
JULY 03...	.2	.50	.00	80	454	.62	2870	270	110	1.4	716	8.2
AUG. 02...	.3	.61	.00	90	460	.63	5090	260	99	1.5	736	7.8
SEP. 05...	.2	.63	.09	90	472	.64	1300	260	100	1.4	736	8.1

DATE	DIS- SOLVED OXYGEN (MG/L)
OCT. 12...	7.1
NOV. 09...	6.9
JAN. 17...	9.8
MAR. 23...	9.1
APR. 24...	9.8
MAY 23...	9.7
JUNE 06...	8.2
JULY 03...	9.8
AUG. 02...	7.8
SEP. 05...	9.6

GREEN RIVER BASIN

09234500 GREEN RIVER NEAR GREENDALE, UTAH--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	760	740	700	---	680	700	---	715	705	---	710	730
2	---	755	695	---	685	700	---	720	705	---	710	730
3	---	760	690	660	690	700	705	720	---	---	715	730
4	760	765	---	670	690	---	720	705	---	---	710	730
5	760	765	---	670	---	---	730	700	705	700	700	730
6	755	---	700	680	---	705	725	---	705	690	725	735
7	750	---	685	670	685	695	725	---	705	695	715	740
8	760	760	690	---	690	700	---	720	705	---	710	730
9	---	760	680	---	690	710	---	720	710	---	715	735
10	---	755	675	670	690	710	730	720	---	700	750	735
11	---	760	---	670	690	---	710	710	---	700	720	735
12	760	755	---	670	---	---	730	720	705	700	720	735
13	760	---	680	670	---	720	730	---	710	695	725	735
14	765	---	680	670	690	720	735	---	710	700	725	735
15	760	760	680	---	690	710	---	725	710	700	715	735
16	---	750	690	---	690	715	---	710	700	705	720	765
17	---	740	690	675	700	700	720	710	---	700	720	745
18	755	735	---	675	700	---	720	710	---	700	720	735
19	755	735	---	665	---	---	725	710	700	700	720	735
20	770	---	680	675	---	705	725	---	700	705	720	740
21	775	---	685	670	---	720	---	---	705	700	720	740
22	775	725	680	---	700	715	---	720	705	700	715	735
23	---	730	690	---	700	730	---	715	705	710	720	735
24	---	725	---	670	700	715	710	720	---	700	730	735
25	---	---	---	665	700	---	720	720	---	705	725	740
26	765	705	---	675	---	---	715	720	700	705	730	735
27	765	---	685	680	---	725	715	---	705	700	725	735
28	760	---	690	665	710	725	730	---	700	705	720	735
29	765	710	690	---	710	715	---	---	700	705	720	735
30	---	715	845	---	---	710	---	725	710	710	725	735
31	---	---	---	670	---	695	---	730	---	705	720	---
MONTH	---	---	---	---	---	---	---	---	---	701	720	736

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	8.0	8.5	---	4.5	4.5	---	5.0	5.5	---	6.5	8.0
2	---	8.0	8.5	---	4.5	4.5	---	4.5	5.5	---	6.5	8.0
3	---	8.0	8.5	5.5	4.5	4.5	5.0	5.0	---	---	6.5	8.0
4	8.0	8.0	---	5.5	4.5	---	5.0	5.0	---	---	6.5	8.0
5	8.0	8.0	---	5.5	---	---	5.0	5.0	6.0	6.5	8.0	8.0
6	8.0	---	8.0	5.5	---	4.5	4.5	---	6.0	6.5	8.0	8.0
7	8.0	---	8.0	5.5	4.5	4.5	4.5	---	6.0	6.5	7.5	8.0
8	8.0	8.0	8.0	---	4.5	4.5	---	5.0	6.0	---	7.5	8.0
9	---	8.0	8.0	---	4.5	4.5	---	5.0	6.0	---	8.0	8.0
10	---	9.0	8.0	5.0	4.5	4.5	4.5	5.0	---	6.5	8.0	0.0
11	---	9.0	---	5.0	4.5	---	4.5	5.0	---	6.5	8.0	8.0
12	8.0	9.0	---	5.0	---	---	4.5	5.0	6.0	6.5	8.0	8.0
13	8.0	---	7.5	5.0	---	4.5	4.5	---	6.0	6.5	8.0	8.0
14	8.0	---	7.0	5.0	4.5	4.5	5.0	---	6.0	6.5	8.0	8.0
15	8.0	9.0	7.0	---	4.5	4.5	---	5.0	6.0	6.5	8.0	8.0
16	---	9.0	7.0	---	4.5	4.5	---	5.0	6.0	6.5	8.0	8.0
17	---	9.0	7.0	5.0	4.5	4.5	5.0	5.0	---	6.5	8.0	0.0
18	8.0	9.0	---	5.0	4.5	---	4.5	5.0	---	6.5	8.0	8.0
19	8.0	9.0	---	5.0	---	---	4.5	5.0	6.0	6.5	8.0	8.0
20	8.0	---	6.5	4.5	---	4.5	4.5	---	6.0	6.5	8.0	8.0
21	8.0	---	6.5	4.5	---	4.5	---	---	6.0	6.5	8.0	8.0
22	8.0	8.5	6.5	---	4.5	4.5	---	5.0	6.0	6.5	8.0	8.0
23	---	8.5	6.5	---	4.5	4.5	---	5.5	6.0	6.5	8.0	8.0
24	---	8.5	---	4.5	4.5	4.5	4.5	5.5	---	6.5	8.0	8.0
25	---	---	---	4.5	4.5	---	4.5	5.5	---	6.5	8.0	8.0
26	9.0	8.5	---	4.5	---	---	4.5	5.5	6.0	6.5	8.0	8.0
27	8.0	---	6.0	4.5	---	4.5	4.5	---	6.5	6.5	8.0	8.0
28	8.0	---	6.0	4.5	4.5	5.0	4.5	---	6.5	6.5	8.0	8.0
29	8.0	8.5	6.0	---	4.5	5.0	---	---	6.5	6.5	8.0	8.0
30	---	8.5	6.0	---	---	5.0	---	5.5	6.5	6.5	8.0	8.0
31	---	---	---	4.5	---	5.0	---	5.5	---	6.5	8.0	---
MONTH	---	---	---	---	---	---	---	---	---	6.5	8.0	7.5

GREEN RIVER BASIN

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09237400 RED CREEK NEAR DUTCH JOHN, UTAH

LOCATION.--Lat 40°58'11", long 109°14'12", in SE¼NW¼ sec.29, T.3 N., R.24 E., Daggett County, at gaging station on right bank 0.5 mile downstream from Clay Basin Creek, 7.4 miles upstream from mouth, and 9.0 miles east of Dutch John.

DRAINAGE AREA.--140 sq mi.

PERIOD OF RECORD.--Sediment records: February 1971 to September 1972.

EXTREMES.--February to September 1971:

Sediment concentrations: Maximum daily, 48,500 mg/l Sept. 3; minimum daily, no flow for several days during August.

Sediment loads: Maximum daily, 9,740 mg/l May 30; minimum daily, 0 tons on several days.

October 1971 to September 1972:

Sediment concentrations: Maximum daily, 87,000 mg/l Mar. 6; minimum daily, 100 mg/l Jan. 18.

Sediment loads: Maximum daily, 25,400 tons Mar. 6; minimum daily, 0.13 ton Aug. 11.

Period of record:

Sediment concentrations: Maximum daily, 87,000 mg/l Mar. 6, 1972; minimum daily, no flow for several days in 1971.

Sediment loads: Maximum daily, 25,400 tons Mar. 6, 1972; minimum daily, 0 tons on several days in 1971.

REMARKS.--Miscellaneous chemical analyses for this station given on page 93.

SUSPENDED-SEDIMENT DISCHARGE, FEBRUARY TO SEPTEMBER 1971

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1				4.0	2040	22	3.5	184	1.7
2				4.0	2040	22	3.5	239	2.3
3				4.0	2040	22	3.5	1430	14
4				4.0	2040	22	3.5	211	2.0
5				4.0	2040	22	3.8	213	2.2
6				3.5	1590	15	3.4	164	1.5
7				3.5	1590	15	3.0	201	1.6
8				3.5	1590	15	3.5	212	2.0
9				3.5	1590	15	6.0	6230	101
10				3.5	1590	15	7.0	2630	50
11				5.0	2890	39	8.4	8740	198
12				5.0	2890	39	11	10700	318
13				5.0	2890	39	6.6	3620	65
14				5.0	2890	39	3.5	12500	118
15				5.0	2890	39	2.5	5410	37
16				4.0	2040	22	2.3	8490	53
17				3.5	1590	15	1.7	271	1.2
18				3.0	1230	10	3.0	5100	41
19				2.4	679	4.4	3.3	13500	120
20				2.4	679	4.4	7.8	13400	282
21				2.4	679	4.4	20	34500	1860
22				2.3	564	3.5	18	18900	919
23				2.3	564	3.5	12	12800	415
24				2.3	564	3.5	13	14800	519
25				2.2	505	3.0	13	11900	418
26				4.5	735	8.9	20	30600	1650
27				3.5	500	4.7	5.0	15200	205
28				3.5	200	1.9	5.7	5060	78
29				--	--	--	5.4	16400	239
30				--	--	--	7.1	9300	178
31				--	--	--	6.5	10600	186
TOTAL				100.8	--	469.2	216.5	--	8078.5

GREEN RIVER BASIN

09237400 RED CREEK NEAR DUTCH JOHN, UTAH--Continued

SUSPENDED-SEDIMENT DISCHARGE, FEBRUARY TO SEPTEMBER 1971

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4.4	3370	40	7.8	1560	33	20	14400	778
2	2.9	3620	28	7.6	1420	37	15	2200	89
3	3.3	4250	38	7.0	1970	37	9.5	4250	109
4	4.5	8210	100	8.7	4850	114	9.4	6500	165
5	4.9	6980	92	12	5530	179	9.3	6450	162
6	5.7	3050	47	12	3630	118	9.8	6920	183
7	7.0	4170	79	13	11200	393	10	7110	192
8	8.4	6470	147	12	4180	135	10	7110	192
9	6.5	11200	197	30	26000	2110	10	8330	225
10	5.6	3510	53	20	12300	664	9.3	6450	162
11	6.2	5270	88	15	6600	267	9.6	9110	236
12	5.5	4370	65	14	15200	575	9.8	6920	183
13	5.7	4320	66	15	10400	421	10	7110	192
14	6.0	4790	78	15	7980	323	10	1300	35
15	6.2	6790	114	14	3150	119	9.5	6630	170
16	7.5	3070	62	17	5760	264	7.0	4660	88
17	6.5	2590	45	19	8170	419	6.5	2820	49
18	7.6	5670	116	17	7590	348	6.5	2740	48
19	7.7	4190	87	15	16300	660	7.0	4660	88
20	12	5280	171	16	13700	592	7.0	4660	88
21	13	7500	263	15	8340	338	7.9	5250	112
22	14	8130	307	15	13700	555	7.3	4820	95
23	14	6280	237	20	14300	772	8.4	5730	130
24	14	8470	320	17	4660	214	8.3	5710	128
25	12	4180	135	15	4160	168	8.5	5880	135
26	14	11600	438	16	5300	229	11	7910	235
27	15	7970	323	15	12400	502	11	7910	235
28	12	2970	96	16	14000	605	13	9490	333
29	14	4230	160	17	6020	276	14	10300	389
30	10	4230	114	75	48100	9740	14	5300	200
31	--	--	--	40	17100	1850	--	--	--
TOTAL	256.1	--	4106	548.1	--	23057	298.6	--	5426

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	11	7910	235	1.3	202	.71	3.5	1590	15
2	10	7110	192	1.4	220	.83	3.0	1230	10
3	10	7110	192	1.3	202	.71	9.0	48500	1180
4	10	7110	192	1.5	235	.95	7.0	4660	88
5	9.4	6500	165	1.7	283	1.3	5.0	2890	39
6	8.8	6020	143	1.5	1060	4.3	5.0	2890	39
7	7.9	18900	403	.51	117	.16	20	43200	2330
8	7.8	5320	112	.19	100	.05	3.3	5370	48
9	5.4	3020	44	.43	627	.73	3.0	1230	10
10	4.7	2130	27	.82	145	.32	.78	143	.30
11	4.0	2040	22	.25	100	.07	.77	140	.29
12	3.3	529	4.7	.93	1530	3.8	.41	109	.12
13	1.6	255	1.1	.50	119	.16	.23	50	.03
14	1.7	283	1.3	0	0	0	0	0	0
15	1.8	349	1.7	0	0	0	.15	100	.04
16	1.8	309	1.5	0	0	0	.10	100	.03
17	1.7	283	1.3	0	0	0	.53	119	.17
18	2.6	1750	12	0	0	0	.60	1980	3.2
19	1.5	235	.95	0	0	0	.60	123	.20
20	2.1	423	2.4	0	0	0	.60	123	.20
21	2.2	505	3.0	0	0	0	.70	132	.25
22	2.3	596	3.7	0	0	0	.70	132	.25
23	1.9	331	1.7	0	0	0	.80	144	.31
24	2.2	3100	18	0	0	0	.90	152	.37
25	2.2	2000	12	0	0	0	.90	344	.84
26	1.9	1000	5.1	0	0	0	1.5	235	.95
27	4.5	2500	30	0	0	0	1.7	283	1.3
28	2.2	2500	15	0	0	0	1.7	1300	6.0
29	1.1	1100	3.3	2.0	6950	38	1.8	309	1.5
30	1.6	2500	11	--	--	--	1.8	309	1.5
31	1.5	1250	5.1	5.0	19900	269	--	--	--
TOTAL	130.7	--	1861.85	19.33	--	321.09	76.07	--	3776.85

TOTAL DISCHARGE FOR PERIOD FEB. 1 TO SEPT. 30, 1971 (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR PERIOD FEB. 1 TO SEPT. 30, 1971 (TONS)

1646.20
47096.49

GREEN RIVER BASIN

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09237400 RED CREEK NEAR DUTCH JOHN, UTAH--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	14	17500	662	4.8	1160	15	2.2	623	3.7
2	15	4490	182	7.9	1730	37	2.0	574	3.1
3	2.7	3150	23	8.6	2830	66	1.6	748	3.2
4	2.9	3190	25	7.0	1530	29	1.5	470	1.9
5	2.4	2930	19	9.8	2040	54	1.5	470	1.9
6	1.9	2530	13	14	2780	105	1.5	470	1.9
7	1.7	2400	11	11	2290	68	1.5	816	3.3
8	1.6	2170	9.4	7.2	824	16	1.5	830	3.4
9	1.6	2270	9.8	8.4	1810	41	1.5	846	3.4
10	2.5	2960	20	13	800	28	1.2	400	1.3
11	2.7	3150	23	21	5890	334	1.4	450	1.7
12	2.4	2930	19	18	3600	175	1.4	450	1.7
13	4.0	1570	17	17	3380	155	1.0	350	.95
14	3.9	3700	39	16	3240	140	1.4	450	1.7
15	1.9	2550	13	15	2960	120	1.4	450	1.7
16	3.4	3490	32	9.0	1930	47	1.4	228	.86
17	4.1	3700	41	7.5	1630	33	1.4	450	1.7
18	5.5	4310	64	7.0	1530	29	1.4	450	1.7
19	8.1	15100	330	7.0	1550	29	1.4	237	.90
20	13	5410	190	7.0	1530	29	1.4	450	1.7
21	5.5	2160	32	6.8	569	10	1.5	386	1.6
22	5.1	1960	27	6.7	1490	27	2.0	574	3.1
23	9.1	3780	93	7.0	1530	29	4.0	381	4.1
24	4.5	1650	20	7.0	1530	29	5.0	1770	24
25	6.0	2280	37	7.0	1450	27	5.0	1180	16
26	3.8	1270	13	3.5	868	8.2	5.0	1180	16
27	5.0	1650	22	2.6	698	4.9	4.0	1020	11
28	.45	1500	1.8	2.6	698	4.9	3.5	1060	10
29	6.9	1500	28	2.5	770	5.2	2.5	680	4.6
30	6.0	1360	22	2.5	1130	7.6	2.0	574	3.1
31	5.0	1190	16	--	--	--	1.5	518	2.1
TOTAL	152.65	--	2054.0	264.4	--	1702.8	65.6	--	137.31

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.4	450	1.7	.90	453	1.1	3.0	5500	45
2	1.3	430	1.5	.85	305	.70	33	14900	1330
3	1.2	400	1.3	.80	292	.63	52	23800	3340
4	1.1	606	1.8	.80	292	.63	62	23100	3870
5	1.0	350	.95	.80	122	.26	58	82000	12800
6	1.0	350	.95	.75	277	.56	108	87000	25400
7	1.0	335	.90	.77	279	.58	35	27000	2550
8	1.0	350	.95	.83	317	.71	12	19300	625
9	1.0	350	.95	.51	300	.41	12	17600	570
10	1.0	350	.95	.82	298	.66	12	14000	454
11	.90	254	.62	.95	173	.44	12	6330	205
12	.90	320	.78	1.0	350	.95	11	5870	174
13	.90	320	.78	1.2	400	1.3	11	6210	184
14	.90	320	.78	1.9	518	2.7	11	5280	157
15	.90	254	.62	3.0	765	6.2	11	6070	180
16	.90	320	.78	5.0	3890	53	11	3960	118
17	.90	250	.61	10	8230	222	11	5860	174
18	.95	100	.26	58	14300	2240	10	5050	136
19	1.0	2020	5.5	98	8750	2320	10	5020	136
20	1.1	370	1.1	97	7740	2030	10	7430	201
21	1.2	400	1.3	122	8160	2690	10	6030	163
22	1.3	617	2.2	86	11100	2580	10	4540	123
23	1.4	450	1.7	93	14500	3640	10	8700	235
24	1.5	470	1.9	73	8070	1590	11	7580	225
25	1.4	450	1.7	34	4900	450	13	4350	153
26	1.3	325	1.1	36	5140	500	15	9820	398
27	1.2	400	1.3	89	19100	4590	14	9050	342
28	1.2	400	1.3	143	33100	12800	15	7330	297
29	1.1	370	1.1	42	10500	1190	21	12100	686
30	1.0	350	.95	--	--	--	20	9610	519
31	1.0	350	.95	--	--	--	15	7260	294
TOTAL	33.95	--	39.28	1001.88	--	36912.83	649.0	--	56084

09237400 RED CREEK NEAR DUTCH JOHN, UTAH--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	8.8	8550	203	8.8	4970	118	15	2960	120
2	10	6840	185	10	3360	91	15	2960	120
3	8.4	4180	95	9.6	3520	91	18	7200	350
4	8.8	4460	106	9.8	4270	113	18	3600	175
5	9.0	4400	107	11	4150	123	23	4670	290
6	13	3200	112	14	5980	226	19	3290 ³	169
7	9.8	5710	151	14	5760	218	19	11100	960
8	9.3	5550	139	12	4650	151	51	43800	9710
9	11	7810	232	14	5320	201	22	4550	270
10	10	4390	119	14	6520	246	13	3370	118
11	11	3370	100	118	36500	11600	11	2290	68
12	15	4970	201	86	28000	6500	9.5	2030	52
13	13	3820	134	47	7700	977	8.7	2210	52
14	17	4460	205	40	6710	725	7.6	1660	34
15	18	6790	330	31	6130	513	7.4	1600	32
16	15	5920	240	23	4470	278	6.1	1400	23
17	14	7800	295	22	5710	339	7.1	2840	54
18	13	4890	172	13	4080	143	6.6	1460	26
19	13	6600	232	15	4210	171	5.9	1320	21
20	13	4220	148	18	3380	164	5.2	685	9.6
21	11	3770	112	15	4570	185	4.1	994	11
22	11	2670	79	17	6450	296	4.0	1020	11
23	9.4	3110	79	14	5000	189	3.8	936	9.6
24	9.5	2680	69	16	3540	153	3.8	1410	14
25	11	2630	78	16	3490	151	3.6	885	8.6
26	11	3940	117	15	2990	121	3.8	936	9.6
27	11	3170	94	12	2450	79	3.1	560	4.7
28	11	2720	81	13	2850	100	2.6	712	5.0
29	10	3020	82	14	3150	119	2.3	644	4.0
30	9.9	4370	117	14	2360	89	2.0	281	1.5
31	--	--	--	15	2320	94	--	--	--
TOTAL	344.9	--	4414	691.2	--	24564	321.2	--	12732.6
DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.6	486	2.1	.50	1000	1.4	2.1	15000	85
2	1.6	486	2.1	.53	500	.72	3.3	38300	341
3	1.7	501	2.3	.96	604	1.6	3.2	29000	251
4	1.6	1160	5.0	1.1	1000	3.0	2.6	10000	70
5	1.5	469	1.9	1.3	2500	8.8	3.1	5090	43
6	1.3	427	1.5	.98	4720	12	4.4	8230	98
7	1.4	450	1.7	.62	3600	6.0	3.7	5600	56
8	1.2	1790	5.8	.44	2500	3.0	3.0	2940	24
9	1.2	2550	8.3	.37	1400	1.4	1.8	535	2.6
10	1.8	1000	4.9	.22	245	.15	2.1	600	3.4
11	1.8	535	2.6	.19	250	.13	1.9	565	2.9
12	1.3	427	1.5	.23	250	.16	1.7	501	2.3
13	.84	254	.58	.23	15000	9.3	1.7	324	1.5
14	.67	254	.46	1.5	28500	115	2.0	574	3.1
15	.75	277	.56	.98	13000	34	1.8	535	2.6
16	.57	221	.34	.78	6700	14	1.6	924	4.0
17	.42	176	.20	.82	5010	11	1.9	2040	10
18	.43	511	.59	.99	5000	13	2.4	3160	20
19	.26	500	.35	4.0	10800	117	2.6	4280	30
20	.43	1270	1.5	2.6	7300	51	2.5	3460	23
21	.42	500	.57	1.4	3700	14	2.5	2640	18
22	.57	221	.34	.98	2000	5.3	2.3	1830	11
23	.39	330	.35	.99	1760	4.7	2.4	1010	6.5
24	.46	430	.53	1.2	1800	5.8	2.6	1000	7.0
25	.77	553	1.1	1.5	1800	7.3	2.4	1000	6.5
26	1.4	739	2.8	2.0	1860	10	2.6	1010	7.1
27	1.6	486	2.1	1.8	1700	8.3	2.6	1200	8.4
28	1.3	427	1.5	1.2	1500	4.9	5.7	17000	262
29	.87	450	1.1	1.2	1290	4.2	3.1	4000	33
30	.58	230	.36	1.5	1400	5.7	3.1	2030	17
31	.75	1360	2.8	1.6	1600	6.9	--	--	--
TOTAL	31.48	--	57.83	34.71	--	479.76	78.7	--	1449.9

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

3669.67

140628.31

09237400 RED CREEK NEAR DUTCH JOHN, UTAH--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, FEBRUARY TO SEPTEMBER 1971

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PENDED SEDIM- ENT CHARGE (MG/L)	SUS- PENDED SEDIM- ENT CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM
FEB.						
26...	1440	2	0.0	3.5	135	7.1
MAR.						
17...	1250	2	0.5	3.1	245	20
APR.						
02...	1330	2	12.5	3.0	5130	42
23...	1050	2	0.0	14	6570	25
MAY						
25...	1050	2	12.0	16	2770	130
30...	1645	2	9.0	162	95500	46900
JUNE						
14...	1600	2	27.0	10	13	36
JULY						
12...	1515	2	29.0	2.4	529	4.0
18...	1600	2	16.0	45	107000	13200
AUG.						
09...	1300	2	24.0	97	627	1.6
30...	1700	2	17.0	33	16000	1430
SEP.						
07...	1730	2	11.0	64	43200	470
08...	1330	2	22.0	3.5	5130	43

DATE	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
FEB.						
26...	14	--	40	69	99	100
MAR.						
17...	--	--	78	95	100	--
APR.						
02...	18	33	63	90	100	--
23...	33	50	73	92	100	--
MAY						
25...	22	32	61	91	100	--
30...	21	30	63	96	97	100
JUNE						
14...	24	39	60	99	100	--
JULY						
12...	40	58	78	97	100	--
18...	31	43	75	93	99	100
AUG.						
09...	28	--	65	91	99	100
30...	67	95	100	--	--	--
SEP.						
07...	38	64	91	98	100	--
08...	79	92	98	100	--	--

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PENDED SEDIM- ENT CHARGE (MG/L)	SUS- PENDED SEDIM- ENT CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
OCT.							
13...	1045	7.0	2.5	1200	8.5	12	13
19...	1840	5.0	3.9	15100	159	18	26
NOV.							
10...	0950	0.0	9.6	779	20	42	48
DEC.							
18...	1650	2.0	89	14300	3440	11	12
MAR.							
05...	--	--	--	154000	--	11	12
05...	1615	1.5	137	99000	30500	24	27
08...	1600	9.0	27	18500	1450	26	34
31...	1500	--	1.8	6930	34	26	29
APR.							
25...	1015	--	13	2190	77	24	30
MAY							
11...	1830	12.0	410	157000		21	23
24...	1115	12.0	17	2840	130	26	31
JUNE							
08...	0845	12.0	122	136000	44300	29	41
AUG.							
03...	0920	14.0	1.2	577	1.9	19	31
SEP.							
06...	0920	11.0	5.2	7680	105	37	70

GREEN RIVER BASIN

09237400 RED CREEK NEAR DUTCH JOHN, UTAH--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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.						
13...	22	52	91	100	--	--
19...	36	46	53	71	92	96
NOV.						
10...	--	69	88	100	--	--
FEB.						
18...	16	29	46	71	86	--
MAR.						
05...	19	42	68	92	100	--
05...	32	69	93	100	--	--
08...	52	84	97	100	--	--
31...	50	83	96	100	--	--
APR.						
25...	40	66	89	100	--	--
MAY						
11...	39	70	90	99	100	--
24...	49	76	93	100	--	--
JUNE						
08...	60	83	93	99	100	--
AUG.						
03...	--	59	88	100	--	--
SEP.						
06...	89	96	99	100	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, FEBRUARY TO SEPTEMBER 1971

DATE	TIME	TYPE	TEMP- ERATURE (DEG C)	DIS- CHARGE (CFS)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM
FEB.							
26...	440	2	.0	3.6	1	4	25
MAR.							
17...	1250	2	.5	.30	1	6	25
APR.							
02...	1330	2	12.5	3.0	1	13	46
23...	1050	2	8.0	14	--	--	--
MAY							
25...	1050	2	12.0	16	1	6	41
30...	1645	2	9.0	182	--	--	--
JUNE							
14...	1600	2	27.0	10	--	--	--
JULY							
12...	1515	2	29.0	2.8	2	19	54
18...	1600	2	16.0	45	--	--	--
AUG.							
09...	1300	2	24.0	.97	--	8	49
30...	1700	2	17.0	33	--	--	--
SEP.							
07...	1730	2	11.0	64	--	--	--
08...	1330	2	22.0	3.5	--	--	--

DATE	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.00 MM
FEB.							
26...	57	81	91	98	100	--	--
MAR.							
17...	48	62	69	79	90	96	100
APR.							
02...	67	76	82	89	94	100	--
23...	--	--	--	--	--	--	--
MAY							
25...	76	91	95	98	100	--	--
30...	--	--	--	--	--	--	--
JUNE							
14...	--	--	--	--	--	--	--
JULY							
12...	80	91	96	100	--	--	--
18...	--	--	--	--	--	--	--
AUG.							
09...	80	93	97	99	100	--	--
30...	--	--	--	--	--	--	--
SEP.							
07...	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--

GREEN RIVER BASIN

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09237400 RED CREEK NEAR DUTCH JOHN, UTAH--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL,
WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
OCT. 13...	1045	7.0	2.5	1	6	27	46
MAR. 08...	1600	9.0	29	13	33	51	68
MAY 24...	1115	12.0	17	1	7	39	71

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
OCT. 13...	60	68	76	86	92	100
MAR. 08...	80	88	94	98	99	100
MAY 24...	83	87	92	96	100	--

GREEN RIVER BASIN

09261000 GREEN RIVER NEAR JENSEN, UTAH

LOCATION.--Lat 40°24'34", long 109°14'05" in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.5, T.5 S., R.24 E., Uintah County, at gaging station 300 ft upstream from highway bridge, 1 mile downstream from Cub Creek and Chew Ranch, 4 miles southeast of Dinosaur National Monument headquarters, 6.5 miles northeast of Jensen, 12 miles upstream from Brush Creek, and 313.9 miles from mouth.

DRAINAGE AREA.--25,400 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: June 1947 to September 1952, April 1962 to September 1972.

Water temperatures: March 1949 to September 1959, October 1961 to September 1972.

Sediment records: May 1948 to September 1972.

EXTREMES.--1971-72:

Specific conductance: Maximum daily, 765 micromhos Oct. 4; minimum daily, 290 micromhos June 19.

Water temperatures: Maximum, 22.0°C July 10, 18; minimum, freezing point on many days during December to February.

Sediment concentrations: Maximum daily, 2,500 mg/l Mar. 10; minimum daily, 9 mg/l Sept. 1.

Sediment loads: Maximum daily, 64,400 tons June 11; minimum daily, 29 tons Sept. 4.

Period of record:

Specific conductance (1947-52, 1962-72): Maximum daily, 2,330 micromhos Sept. 10, 1963; minimum daily, 176 micromhos May 24, 1963.

Water temperatures: Maximum, 30.0°C July 11, 1958; minimum (1949-59, 1961-64, 1965-72), freezing point on many days during winter period each year.

Sediment concentrations: Maximum daily, 40,600 mg/l Aug. 23, 1960; minimum daily, 9 mg/l Oct. 7-11, 1953, Nov. 22, 1962, Sept. 1, 1972.

Sediment loads: Maximum daily, 2,500,000 tons Mar. 29, 1962; minimum daily, 10 tons on many days in 1962-63.

REMARKS.--Chemical-quality samples and temperature data collected at site 8 miles downstream from gaging station.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT. 04...	1600	7.0	1930	6.7	61	25	62	2.7	205	0	200	19
NOV. 02...	1500	3.0	2040	6.6	61	22	61	3.0	186	0	190	23
DEC. 01...	1410	4.5	4290	--	57	23	59	3.2	177	0	190	20
JAN. 04...	1400	.0	1340	--	63	23	57	3.4	193	0	180	24
FEB. 08...	1530	1.5	3350	--	66	23	54	3.2	194	0	180	24
MAR. 13...	1330	6.5	3450	--	56	19	53	3.4	174	0	170	18
APR. 18...	1415	11.0	4280	10	46	16	32	2.4	149	0	110	13
MAY 23...	1430	12.0	12680	8.3	35	11	22	1.6	116	0	76	7.6
JUNE 12...	1435	15.0	15200	7.7	35	10	22	1.8	116	0	83	6.2
AUG. 08...	1200	18.0	2290	3.3	66	24	53	2.8	188	0	190	18
SEP. 05...	0900	--	1030	3.9	62	25	56	3.1	196	0	180	27

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO ₄) (MG/L)	DIS- SOLVED BORON (B) (UG/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)
OCT. 04...	.5	.41	.00	100	480	.65	2500	260	87	1.7	763	8.1
NOV. 02...	.2	.35	.03	90	460	.63	2530	240	90	1.7	719	8.1
DEC. 01...	--	.32	.03	--	441	.60	5110	240	92	1.7	703	8.1
JAN. 04...	--	.34	.00	--	447	.61	1620	250	94	1.6	713	8.0
FEB. 08...	--	.25	.00	--	447	.61	4040	260	100	1.5	706	8.3
MAR. 13...	--	.43	.09	--	407	.55	3790	220	75	1.6	636	7.9
APR. 18...	.3	.42	.09	70	305	.41	3520	180	58	1.0	471	8.0
MAY 23...	.2	.28	.06	50	220	.30	7530	130	38	.8	363	6.8
JUNE 12...	.1	.22	.12	70	224	.30	9190	130	33	.8	335	8.2
AUG. 08...	.4	.42	.00	100	452	.61	2790	260	110	1.4	710	8.3
SEP. 05...	.3	.38	.06	110	456	.62	1270	260	97	1.5	730	8.2

09261000 GREEN RIVER NEAR JENSEN, UTAH--Continued
 CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DIS-
SOLVED
OXYGEN
DATE (MG/L)

DEC.
01... 9.8
JAN.
04... 11.7
FEB.
08... 8.6
MAR.
13... 9.8
APR.
18... 8.3
MAY
23... 8.6
JUNE
12... 8.1

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
OCT. 04...	1315	7.0	1930	104	542	53	62
MAR. 13...	1445	6.5	3450	1320	12300	65	72
APR. 18...	1300	11.0	4080	711	7630	23	27
MAY 23...	1430	12.0	12680	1380	47200	18	20
JUNE 12...	1330	15.0	15200	1160	47600	24	28

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .002 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. 04...	--	95	99	100	--	--
MAR. 13...	01	84	85	93	100	--
APR. 18...	35	52	63	90	100	--
MAY 23...	28	53	71	69	98	100
JUNE 12...	37	55	76	93	100	--

GREEN RIVER BASIN

09261000 GREEN RIVER NEAR JENSEN, UTAH--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	725	680	---	---	700	---	---	420	430	---	690	715
2	720	700	---	---	690	---	---	420	365	---	690	730
3	---	700	---	680	700	---	650	430	370	---	700	---
4	765	720	---	680	700	---	670	430	---	---	700	730
5	760	705	---	690	700	---	670	445	300	560	---	735
6	740	---	650	705	---	640	685	---	430	585	---	730
7	---	---	675	700	690	685	680	---	350	600	700	750
8	---	720	685	---	700	690	---	455	335	610	710	735
9	730	---	680	---	700	630	---	440	350	---	705	---
10	735	710	670	685	690	625	620	440	350	610	700	---
11	740	730	---	680	685	---	550	440	---	---	690	730
12	725	720	---	685	690	---	540	---	345	620	700	725
13	735	---	680	680	---	635	545	---	355	640	---	710
14	735	---	680	665	670	670	---	---	350	645	700	715
15	760	710	690	675	640	610	---	495	330	635	710	720
16	755	720	680	---	680	625	---	500	340	---	710	715
17	---	710	690	675	---	605	450	490	330	620	710	---
18	715	720	---	680	680	625	480	460	---	625	710	725
19	745	705	---	675	---	---	510	420	290	650	705	705
20	755	710	680	680	---	---	515	---	320	665	---	715
21	735	---	680	---	690	640	520	---	390	---	700	710
22	740	730	680	---	700	610	510	380	345	670	725	725
23	---	715	680	---	640	580	---	370	330	---	---	725
24	---	700	680	675	640	595	490	370	360	670	---	---
25	---	705	680	680	605	---	490	390	---	685	---	735
26	710	---	---	650	---	---	475	400	370	675	---	750
27	705	---	685	660	---	600	435	---	425	685	---	725
28	735	---	690	660	---	610	430	---	435	---	700	---
29	---	---	680	---	---	600	390	---	490	---	715	---
30	---	---	---	---	---	620	---	310	---	---	700	---
31	---	---	---	680	---	650	---	360	---	680	710	---
MONTH	---	---	---	---	---	---	---	---	363	---	---	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

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

09261000 GREEN RIVER NEAR JENSEN, UTAH--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2080	89	500	2560	49	339	4210	331	3760
2	2300	90	559	2170	82	480	3720	272	2730
3	2470	100	667	2680	73	528	4400	214	2540
4	2190	89	526	3180	80	687	3650	155	1530
5	2110	60	342	3280	87	770	3930	97	1030
6	2130	24	138	3210	70	607	3720	38	382
7	2350	29	184	3120	52	438	3950	30	320
8	2290	34	210	2480	35	234	3520	23	219
9	2220	40	240	2840	45	345	3670	40	396
10	2190	45	266	3080	55	457	3650	57	562
11	2180	50	294	2880	45	350	4040	47	513
12	2110	35	199	2840	35	268	3740	37	374
13	2410	19	124	2900	77	603	3850	27	281
14	2580	22	153	3100	119	990	3830	36	372
15	2620	24	170	2800	161	1220	3760	44	447
16	2910	38	299	2970	125	1000	3720	48	482
17	2100	51	289	3310	89	795	4140	52	581
18	1910	65	335	3670	152	1510	4080	43	474
19	1720	147	683	3760	214	2170	4040	33	360
20	2100	229	1300	3670	171	1690	3420	24	222
21	2120	206	1180	3300	129	1150	3650	55	542
22	2170	183	1070	3800	86	882	3700	86	859
23	2040	159	876	3670	106	1050	3500	46	435
24	2340	135	853	3920	126	1330	3300	37	330
25	1790	110	532	3710	155	1550	2700	80	583
26	1780	86	413	3730	185	1860	2300	123	764
27	1800	62	301	4010	214	2320	2500	166	1120
28	2710	59	432	3630	243	2380	2900	164	1280
29	3210	57	494	4010	272	2940	3200	163	1410
30	2970	54	433	3970	302	3240	3400	139	1280
31	3060	52	430	--	--	--	3500	115	1090
TOTAL	70960	--	14492	98250	--	34189	111690	--	27268

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3200	91	786	3390	40	366	4480	1500	18100
2	2300	67	416	3540	62	593	4340	1400	16400
3	2100	43	244	3460	42	392	4640	1700	21300
4	2300	44	273	3510	30	284	4540	1600	19600
5	3000	46	373	3400	30	275	3820	1100	11300
6	3500	44	416	3070	30	249	3890	1300	13700
7	3800	43	441	2550	30	207	4040	1400	15300
8	3200	37	320	2910	30	236	4220	2150	24500
9	2800	32	242	3320	30	269	4720	1900	24200
10	2100	26	147	3090	32	267	4220	2500	28500
11	2700	240	1750	3390	35	320	3990	1800	19400
12	3400	260	2390	4300	43	499	3670	1500	14900
13	3800	160	1640	3760	51	518	3550	1230	11800
14	3560	64	615	3040	58	476	3820	1290	13300
15	3460	47	439	3580	72	696	4450	1350	16200
16	2880	30	233	3800	85	872	4370	1020	12000
17	2220	13	78	3800	86	882	4200	695	7880
18	2510	54	366	3800	88	903	3350	650	5880
19	3020	95	775	3740	350	3530	3010	605	4920
20	3420	99	914	3700	570	5690	2660	560	4020
21	3460	102	953	3300	780	6950	2940	516	4100
22	3580	106	1020	3540	820	7840	3310	471	4210
23	3250	110	965	4580	1000	12400	2890	380	2970
24	2900	155	1210	5040	1400	19100	2680	288	2080
25	3340	190	1710	5320	1400	20100	2760	281	2090
26	3440	81	752	4540	1200	14700	2970	274	2200
27	3720	65	653	4440	1100	13200	2800	266	2010
28	3740	54	545	3200	600	5180	2770	201	1500
29	3610	43	419	4280	1400	16200	2850	136	1050
30	3560	32	308	--	--	--	2770	152	1140
31	2910	21	165	--	--	--	2880	167	1300
TOTAL	96780	--	21558	107390	--	133194	111600	--	327850

09261000 GREEN RIVER NEAR JENSEN, UTAH--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2720	150	1100	5910	200	3190	12000	452	14600
2	2710	133	973	6150	272	4520	12400	428	14300
3	2690	116	843	6740	344	6260	12600	548	18600
4	2660	106	761	6680	249	4490	12600	668	22700
5	2640	95	677	6600	154	2740	12800	788	27200
6	2680	111	803	6860	362	6700	13200	750	26700
7	3590	127	1230	7960	570	12300	13200	711	25300
8	4130	213	2380	8560	779	18000	13200	738	26300
9	5360	299	4330	9130	640	15800	13400	764	27600
10	5540	386	5770	9380	501	12700	14600	650	25600
11	5510	422	6280	9600	591	15300	15900	1500	64400
12	5590	458	6910	9830	681	18100	15100	1140	46500
13	5600	434	6560	10000	770	20800	14300	500	19300
14	5750	410	6370	10100	860	23500	13600	344	12600
15	6250	385	6500	9880	953	25400	12200	308	10100
16	6380	361	6220	9600	666	17300	10300	273	7590
17	6240	337	5680	9400	380	9640	9790	277	7320
18	5160	577	8040	9470	520	13300	8280	232	5190
19	4930	315	4190	10100	668	18200	6950	188	3530
20	4980	284	3820	10700	681	19700	6790	167	3060
21	5370	252	3650	11000	693	20600	6780	146	2670
22	5770	292	4550	11500	706	21900	6320	160	2730
23	5590	252	3800	12200	1350	44500	6220	173	2910
24	5500	133	1980	12300	600	19900	6290	148	2510
25	5270	146	2080	12100	458	15000	5740	124	1920
26	5230	158	2230	11800	316	10100	5340	99	1430
27	5430	418	6130	11600	348	10900	5070	91	1250
28	6020	677	11000	11400	380	11700	5160	83	1160
29	6160	518	8620	11100	411	12300	4880	99	1300
30	6140	359	5950	11000	443	13200	4300	87	1010
31	--	--	--	11600	475	14900	--	--	--
TOTAL	147590	--	129427	300250	--	462940	299310	--	427380

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4230	75	857	3720	80	804	1300	9	32
2	3760	64	650	4150	100	1120	1180	10	32
3	3460	52	486	3940	105	1120	1100	10	30
4	3850	40	416	3600	75	729	1080	10	29
5	3640	28	275	3190	70	603	1110	25	75
6	3800	24	246	3060	55	454	1060	16	46
7	4000	21	227	2590	55	385	1300	35	123
8	4140	23	257	3270	100	883	1810	35	171
9	4330	24	281	3420	70	646	1800	30	146
10	3440	26	241	3210	65	563	1740	30	141
11	3900	27	284	3320	65	583	1670	17	77
12	3850	28	291	3020	48	391	1580	10	43
13	4180	24	271	2890	50	390	1560	32	135
14	3620	20	195	2540	45	309	1670	30	135
15	3540	20	191	3060	60	496	1690	22	100
16	3780	19	194	3080	55	457	1740	25	117
17	2540	19	130	2920	60	473	1860	45	226
18	2760	24	179	3110	65	546	1550	37	155
19	3570	29	280	3170	70	599	905	25	61
20	3420	63	582	2970	60	481	974	38	100
21	3370	64	582	2540	50	343	863	35	82
22	3210	62	537	2870	60	465	849	33	76
23	3080	42	349	3230	65	567	747	35	71
24	3120	21	177	2890	60	468	759	36	74
25	3190	26	224	2790	65	490	718	37	72
26	3560	30	288	2270	65	393	683	50	92
27	3690	45	448	2170	45	264	1100	60	178
28	2960	60	480	1830	30	148	1580	80	341
29	3360	85	771	2120	45	258	1710	70	323
30	3270	70	618	1700	30	138	1860	65	326
31	3560	55	529	1660	35	157	--	--	--
TOTAL	110180	--	11536	90300	--	15728	39548	--	3609

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 1583848
 TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 1609171

09302000 DUCHESNE RIVER NEAR RANDLETT, UTAH

LOCATION.--Lat 40°12'57", long 109°47'05", SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.17, T.3 S., R.2 E., Uintah meridian, Uintah County, at gaging station 0.2 mile downstream from Uinta River, 1.2 miles southeast of Randlett, and 6.5 miles southeast of Fort Duchesne.

DRAINAGE AREA.--3,920 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: December 1950 to September 1951, November 1956 to September 1972.
Water temperatures: December 1950 to September 1951, November 1956 to September 1972.

EXTREMES.--1971-72:

Specific conductance: Maximum daily, 2,810 micromhos Aug. 1; minimum daily, 375 micromhos June 5.
Water temperatures: Maximum, 21.5°C July 31, Aug. 13; minimum, freezing point on many days during winter period.

Period of record:

Specific conductance (1950-51, 1956-60, 1961-72): Maximum daily, 4,490 micromhos Aug. 24, 1960; minimum daily, 291 micromhos May 29, 1951.
Water temperatures: Maximum, 27.0°C July 15, 1968; minimum, freezing point on many days during winter period each year.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MA) (MG/L)	DIS- SOLVED SODI- UM (NA) (MG/L)	DIS- SOLVED POT- ASS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT.												
05...	1520	11.0	303	9.6	110.	56	170	2.7	300	0	490	49
NOV.												
04...	1100	5.0	534	15	110	69	180	4.4	349	0	560	80
JAN.												
06...	1430	.0	420	--	100	48	110	2.3	292	0	360	53
FEB.												
10...	1345	.0	631	--	83	33	67	1.9	228	0	220	32
MAR.												
17...	1350	12.0	700	--	91	52	130	2.5	293	0	380	60
APR.												
19...	1140	9.5	133	7.5	110	66	220	2.6	302	0	600	120
MAY												
30...	1330	16.5	2500	6.3	32	13	31	1.7	110	0	91	16
JUNE												
14...	--	17.5	1970	10	46	25	56	2.5	158	0	170	30
AUG.												
09...	1200	18.0	52	13	140	80	280	4.8	322	0	810	140
SEP.												
07...	1105	16.5	76	13	140	78	280	4.7	340	0	800	140

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 BORON (B) (MG/L)	DIS- SOLVED SUM OF CONSTI- TUENTS (MG/L)	DIS- SOLVED SULFIDE PER AC-FT	DIS- SOLVED SULFIDE PER DAY	NON- CAR- BONATE HARD- NESS (CA+MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCTI- ANCE (MICRO- MHOS)	PH (UNITS)
OCT.											
05...	.4	.07	.00	760	1040	1.41	851	500	260	3.3	8.0
NOV.											
04...	.6	.33	.03	530	1190	1.62	1720	560	270	3.3	8.0
JAN.											
06...	--	.37	.00	--	819	1.11	929	450	210	2.3	8.1
FEB.											
10...	--	.28	.00	--	550	.75	937	340	160	1.6	8.2
MAR.											
17...	--	.02	.03	--	860	1.17	1620	440	200	2.7	8.2
APR.											
19...	.6	.01	.03	620	1280	1.74	460	550	300	4.1	8.3
MAY											
30...	.2	.10	.34	140	246	.33	1660	130	43	1.2	8.0
JUNE											
14...	.4	.12	.06	240	418	.57	2220	220	88	1.7	7.8
AUG.											
09...	.9	.09	.06	920	1630	2.22	229	680	410	4.7	8.0
SEP.											
07...	.8	.22	.03	980	1630	2.22	336	670	390	4.7	8.2

DATE	DIS- SOLVED OXYGEN (MG/L)
NOV.	
04...	10.8
DEC.	
03...	12.6
JAN.	
06...	11.4
MAR.	
17...	8.1
APR.	
19...	7.8
MAY	
30...	7.5
JUNE	
14...	7.7

GREEN RIVER BASIN

09302000 DUCHESNE RIVER NEAR RANDLETT, UTAH--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1920	2150	1460	1090	1130	1000	1120	1400	450	1170	2810	2500
2	1850	1920	1460	1060	1100	925	1330	1330	540	1180	2780	2450
3	1750	1650	1420	1010	---	1110	1260	1440	390	1290	2700	2360
4	1730	1600	1480	1220	1100	880	1280	1700	410	1360	2240	2430
5	1800	1700	1590	1220	1060	1080	1320	1950	375	1540	2230	2390
6	1650	1620	1430	1180	990	1150	1500	2200	440	1700	2100	2390
7	1640	1650	1440	1120	905	1180	1750	2140	450	1860	2330	2440
8	1540	1620	1580	1160	880	1150	1850	1980	470	1980	2390	2250
9	1600	1440	1650	950	885	1220	1630	1900	510	2050	2250	2300
10	1620	1500	1700	980	880	1180	1630	1840	515	2180	2510	2500
11	1640	1520	1520	975	900	1280	1800	1800	455	2350	2400	2310
12	1690	1670	1320	955	920	1240	1970	2070	445	2300	2350	2300
13	1770	1850	1300	930	900	1230	1900	2120	430	2340	2450	2350
14	1810	2240	1500	930	905	1100	1530	2100	420	2350	2450	2350
15	1780	2250	1280	1040	970	1280	1420	2100	480	2370	2700	2680
16	1790	2200	1240	1010	995	1160	1440	1790	530	2290	2650	2720
17	1850	2240	1110	950	1000	1160	1510	1330	860	2650	2700	---
18	2160	1840	1070	975	1130	1140	1500	1110	1000	2300	2700	2800
19	1850	1610	1150	910	950	1120	1650	910	650	2400	2370	2610
20	1700	1610	1350	900	---	1110	1700	1020	895	2350	2310	2710
21	1660	1510	1260	925	---	1160	1610	1050	850	2400	2400	2420
22	1650	1480	1100	955	885	1280	1800	1140	835	2400	2280	2600
23	1740	1430	965	---	915	1260	1920	1110	680	2400	2480	2520
24	1670	---	900	900	1040	1270	---	1220	920	2400	2650	2450
25	---	---	1020	925	970	1300	1420	1180	905	2410	2700	2450
26	1840	---	1160	960	1050	1340	1400	1070	930	2390	2300	2420
27	1700	---	1130	965	1140	1330	1350	810	1000	2450	2320	2460
28	1620	---	1220	1000	1140	1290	1380	760	1030	2200	2400	2550
29	2070	---	1090	1050	1130	1300	1320	520	1280	2400	2350	2400
30	1640	1520	1120	1190	---	1350	1630	445	1160	2450	2400	2550
31	2050	---	1140	1190	---	1310	---	395	---	2470	2450	---
MONTH	1760	1740	1300	1020	995	1190	1550	1420	677	2140	2460	2470

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

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

GREEN RIVER BASIN

47

09306500 WHITE RIVER NEAR WATSON, UTAH

LOCATION.--Lat 39°59', long 109°11', in sec.2, T.10 S., R.24 E., Uintah County, at bridge on State Highway 45, 350 ft upstream from gaging station, about 1 mile downstream from Evacuation Creek, and 7 miles north of Watson.

DRAINAGE AREA.--4,020 sq mi, approximately.

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

Water temperatures: December 1950 to September 1972.

EXTREMES.--1971-72:

Specific conductance: Maximum daily, 1,000 micromhos Nov. 3; minimum daily, 320 micromhos M: 31.

Water temperatures: Maximum, 22.0°C Aug. 2; minimum, freezing point on several days during November and December.

Period of record:

Specific conductance: Maximum daily, 4,450 micromhos Aug. 4, 1955; minimum daily, 295 micromhos June 26, 1971.

Water temperatures: Maximum, 31.0°C Aug. 8, 1954; minimum, freezing point on many days during winter period each year.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT.												
01...	1410	11.5	428	14	65	20	39	1.4	211	0	140	22
NOV.												
03...	1530	1.5	469	16	70	22	88	2.6	226	0	160	83
DEC.												
02...	1510	.5	396	--	63	22	56	1.5	217	0	150	29
JAN.												
05...	1550	.0	329	--	65	24	61	1.9	250	0	160	35
FEB.												
09...	1545	.0	400	--	100	23	57	1.9	215	0	160	40
MAR.												
16...	1300	8.2	470	--	70	22	62	1.9	219	0	160	39
APR.												
17...	1445	14.0	496	13	58	18	44	1.5	150	0	130	42
MAY												
22...	1150	14.0	1890	12	41	11	16	1.4	143	0	61	12
JUNE												
13...	1400	17.5	2180	13	38	11	14	1.3	132	0	52	8.2
JULY												
24...	1150	22.0	222	11	67	28	65	2.2	212	0	190	42
AUG.												
15...	1025	21.0	196	13	62	28	75	2.7	221	0	200	44
SEP.												
06...	1130	15.5	360	15	73	28	51	3.2	240	0	170	34

GREEN RIVER BASIN

09306500 WHITE RIVER NEAR WATSON, UTAH--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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 BORON (B) (UG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)
OCT.												
01...	.2	.04	.00	60	406	.55	469	240	72	1.1	651	8.1
NOV.												
03...	.2	.02	.03	90	553	.75	700	270	80	2.4	891	8.0
DEC.												
02...	--	.01	.03	--	429	.58	459	250	70	1.5	706	8.2
JAN.												
05...	--	.16	.00	--	587	.80	521	260	56	1.6	857	7.7
FEB.												
09...	--	.17	.00	--	489	.67	528	340	170	1.3	754	8.0
MAR.												
16...	--	.04	.03	--	463	.63	588	270	86	1.7	752	8.2
APR.												
17...	.3	.04	.00	50	381	.52	510	220	96	1.3	535	8.0
MAY												
22...	.2	.51	.03	30	227	.31	1160	150	30	.6	366	7.7
JUNE												
13	.2	.12	.03	30	203	.28	1190	140	32	.5	328	7.9
JULY												
24...	.3	.00	.00	100	510	.69	306	280	110	1.7	804	7.9
AUG.												
15...	.3	.04	.06	90	534	.73	283	270	89	2.0	842	8.3
SEP.												
06...	.3	.02	.09	70	493	.67	479	300	100	1.3	775	8.3

DIS-
SOLVED
OXYGEN
(MG/L)

NOV.	
03...	11.2
DEC.	
02...	11.9
JAN.	
05...	11.4
MAR.	
16...	8.0
APR.	
17...	8.5
MAY	
22...	8.0
JUNE	
13...	7.1
JULY	
24...	6.8
AUG.	
15...	7.2
SEP.	
05...	6.0

GREEN RIVER BASIN

49

09306500 WHITE RIVER NEAR WATSON, UTAH--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	625	570	510	---	520	750	---	550	330	---	775	875
2	665	550	530	---	540	730	---	520	340	---	790	---
3	640	1900	550	760	530	725	735	490	330	585	790	---
4	655	540	---	840	340	745	725	500	335	620	820	---
5	605	560	---	475	500	---	720	475	370	635	---	810
6	630	725	715	820	---	755	500	470	400	640	---	785
7	630	700	730	470	545	700	730	435	350	640	800	905
8	645	590	550	450	750	500	---	470	340	---	805	790
9	640	575	---	1060	755	515	690	435	600	900	800	785
10	575	530	530	1220	730	775	690	455	---	610	790	800
11	640	600	510	900	725	785	645	490	---	645	775	880
12	655	725	730	800	---	---	630	455	335	745	750	830
13	655	550	475	530	---	770	530	---	335	680	800	760
14	660	700	550	515	770	755	500	350	340	665	770	770
15	675	700	750	---	630	750	575	540	345	685	830	760
16	700	710	820	---	505	755	620	540	370	680	865	810
17	730	700	745	780	755	740	640	520	370	695	---	---
18	815	710	---	775	550	700	665	475	410	710	---	750
19	735	730	---	800	555	830	665	440	420	730	---	740
20	730	730	770	790	---	750	640	400	405	745	---	880
21	680	---	840	730	790	720	610	---	420	760	---	950
22	700	755	890	800	700	690	590	390	430	---	910	820
23	---	750	840	---	730	700	605	350	440	---	860	695
24	690	765	740	730	745	600	600	350	---	---	850	715
25	685	815	735	750	730	715	550	370	---	790	855	715
26	700	870	810	750	740	---	550	380	475	940	855	725
27	695	830	730	785	---	700	510	---	490	775	---	700
28	705	830	770	805	790	700	470	---	510	800	855	685
29	805	700	750	810	780	535	490	---	525	785	---	700
30	665	670	---	---	---	705	520	325	340	770	---	---
31	---	---	735	815	---	720	---	320	---	805	925	---
MONTH	677	731	734	836	771	752	633	453	406	709	---	786

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

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

GREEN RIVER BASIN

09314500 PRICE RIVER AT WOODSIDE, UTAH

LOCATION.--Lat 39°15'50", long 110°20'45", in SE $\frac{1}{4}$ sec.9, T.18 S., R.14 E., Emery County, at gaging station on left bank wing wall of old highway bridge, 200 ft downstream from railroad bridge at Woodside, and about 22 miles upstream from mouth.

DRAINAGE AREA.--1,500 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: December 1946 to September 1949, February 1951 to September 1972.

Water temperatures: February 1951 to September 1959, November 1961 to September 1963, October 1964 to September 1972.

EXTREMES.--1971-72:

Specific conductance: Maximum daily, 7,000 micromhos Dec. 10; minimum daily, 1,020 micromhos Aug. 3.

Water temperatures: Maximum, 29.5°C July 31; minimum, freezing point on many days during winter period.

Period of record:

Specific conductance (1951-72): Maximum daily, 8,540 micromhos Dec. 11, 1951; minimum daily, 814 micromhos June 1, 1952.

Water temperatures: Maximum, 32.0°C July 10, 11, 1954; minimum, freezing point on many days during winter period each year.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SiO ₂) (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO ₃) (MG/L)	CARBONATE (CO ₃) (MG/L)	DIS-SOLVED SULFATE (SO ₄) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)
OCT.												
05...	1350	15.0	50	.7	180	170	540	5.7	289	0	1900	49
NOV.												
04...	1235	3.5	110	7.0	260	220	690	8.9	380	0	2700	70
DEC.												
02...	1200	.0	49	3.3	250	260	830	8.4	378	0	3100	75
JAN.												
05...	1230	.0	35	--	300	330	830	14	862	0	3100	89
FEB.												
01...	1200	.0	25	--	270	210	570	12	461	0	2300	69
MAR.												
01...	1100	3.0	133	--	200	150	450	8.7	397	0	1700	53
APR.												
06...	1200	13.5	56	11	170	140	390	6.7	343	0	1500	51
MAY												
12...	0940	11.0	69	2.7	180	170	500	13	306	0	1900	52
AUG.												
30...	1635	26.0	39	.8	220	160	460	9.4	258	0	1900	55

DATE	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO PHOSPHATE (PO ₄) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
OCT.												
05...	.6	.95	.00	320	2990	4.07	404	1100	910	6.9	3890	8.1
NOV.												
04...	.5	2.1	.15	370	4150	5.64	1230	1600	1200	7.6	4890	8.0
DEC.												
02...	.4	2.4	.21	430	4720	6.42	628	1700	1400	8.8	5420	7.9
JAN.												
05...	--	2.5	.18	--	5100	6.94	482	2100	1400	7.9	5550	8.1
FEB.												
01...	--	2.1	.34	--	3670	4.99	248	1500	1200	6.3	4370	8.2
MAR.												
01...	--	2.1	.12	--	2770	3.77	995	1100	790	5.9	3490	7.9
APR.												
06...	.5	1.9	.15	300	2450	3.33	373	1000	720	5.4	3060	8.0
MAY												
12...	.4	.96	.00	330	2970	4.04	557	1100	900	6.4	3680	8.3
AUG.												
30...	.4	.46	.03	490	2940	4.00	311	1200	1000	5.8	3580	8.1

DATE	DIS-SOLVED OXYGEN (MG/L)
OCT.	
05...	8.4
JAN.	
05...	12.6
APR.	
06...	9.0
MAY	
12...	9.2

09314500 PRICE RIVER AT WOODSIDE, UTAH--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3450	3500	4600	5400	4400	3500	2190	3900	3450	4000	2900	3500
2	3650	3800	5400	5400	4600	2200	2500	4500	3700	4050	---	3750
3	4050	4350	5600	5200	4800	2440	2300	4000	3690	3700	1020	4000
4	4250	4300	5400	5500	5150	3600	2610	3900	3800	3550	1810	4000
5	3850	4400	5600	5600	5000	1370	3300	4000	3800	3600	2900	4100
6	3850	4450	5700	5600	4800	1400	3300	4000	3010	3190	2600	3700
7	4200	4200	5600	5400	4800	1420	3310	3750	3200	3200	3400	3400
8	4580	4400	6500	5000	4600	1900	3310	3750	3400	3110	3500	3400
9	4650	4400	6500	5000	4300	2070	3350	3900	2700	3420	3700	3600
10	4900	4800	7000	5400	4150	2000	2450	4200	4050	3500	3310	3650
11	4950	4750	6300	5000	4000	2200	2950	4050	4200	3400	3600	3500
12	---	4500	6200	4700	4000	2530	3000	3400	3250	3410	4000	4000
13	5000	4300	6000	4400	4000	3700	3410	3300	3200	3350	3750	3850
14	5050	4400	6000	4400	4000	2730	4050	3550	3300	3610	3550	4150
15	5000	4400	5600	4150	4200	2620	3150	3950	3410	3570	3550	4150
16	4850	5000	5300	4200	3950	2250	3650	4400	3850	3450	3600	4200
17	5050	4800	4500	4600	3850	2250	4000	4500	3500	3680	3800	4100
18	3600	4850	4200	4300	3650	2210	3050	4550	3700	3300	3750	4200
19	4650	5000	4400	4200	3650	2150	3300	4250	3950	3450	3700	3800
20	4400	5050	4400	4100	3600	2150	3120	4200	3550	3180	2800	2850
21	4050	5400	4000	4200	3550	2100	2800	3900	3510	3200	3400	3510
22	3950	5350	4100	4350	3400	2050	3200	3850	3500	3300	1230	3090
23	4200	6000	3900	4200	3250	2120	3300	3600	3490	3220	2650	3280
24	4250	6400	3900	4200	2850	2170	4100	3700	3800	3190	3300	3300
25	2610	6000	3800	4150	2900	2200	4150	3500	3900	3100	3850	3200
26	3750	5600	2800	4050	3050	2050	4300	3450	4100	3190	3850	3200
27	4150	5300	2350	4000	3100	2100	3500	3300	3700	2910	4200	3600
28	4100	5300	3300	4000	3500	2050	3100	3350	3800	2630	4300	3680
29	4420	5000	3500	4400	3850	1880	3300	3250	3800	3100	3650	3750
30	3950	5100	4200	4800	---	2120	3550	3600	4000	3020	3500	4400
31	3950	---	4300	4500	---	2050	---	3600	---	2880	3750	---
MONTH	4250	4840	4870	4660	3960	2240	3250	3840	3610	3340	3300	3700

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	2.0	1.5	0.0	0.0	2.5	10.0	6.5	21.0	21.5	26.5	16.5
2	8.5	2.5	0.5	0.0	0.0	1.5	9.0	10.0	24.0	15.5	---	20.0
3	5.0	5.5	1.0	0.0	0.0	5.0	8.5	10.0	20.5	26.5	16.5	16.0
4	10.5	2.5	0.0	0.0	0.0	3.5	10.0	11.5	20.5	19.0	20.5	15.5
5	20.5	1.5	0.5	0.0	0.0	3.5	10.5	13.0	17.0	19.5	18.5	17.5
6	9.5	4.5	0.5	0.0	1.0	5.5	10.0	13.0	20.0	19.5	22.5	16.5
7	11.0	2.5	0.0	0.0	0.5	6.0	9.0	13.0	19.5	19.0	26.5	14.0
8	12.0	6.0	0.0	0.0	0.0	7.0	10.0	14.5	18.5	24.0	26.0	15.0
9	12.0	6.0	0.0	0.0	0.5	5.5	12.0	13.0	21.0	24.5	25.0	20.0
10	13.0	1.5	0.0	0.0	1.0	6.0	10.5	11.5	19.5	17.0	26.0	17.0
11	18.5	3.0	0.0	0.0	0.0	7.0	10.0	9.0	20.0	20.5	20.5	15.0
12	---	3.5	0.0	1.0	0.5	9.5	10.0	17.0	21.0	16.5	21.0	13.0
13	9.5	6.0	0.0	0.5	1.0	8.5	9.0	11.0	16.0	20.0	25.0	14.5
14	8.0	5.5	0.0	0.0	1.0	8.5	6.0	13.5	19.5	18.5	20.0	21.0
15	13.0	4.0	0.0	0.0	1.0	5.5	11.5	10.0	23.0	21.0	18.5	18.5
16	10.0	3.5	0.0	1.0	0.5	7.0	9.5	16.0	20.5	19.0	17.0	13.0
17	12.0	2.0	0.0	0.5	1.0	7.0	11.0	15.0	20.5	26.5	16.0	11.0
18	6.0	0.0	0.0	1.0	1.5	6.5	9.5	14.5	20.5	24.5	18.0	19.0
19	4.5	1.0	0.0	0.5	1.5	9.0	3.5	16.0	20.5	23.0	20.5	16.0
20	6.0	0.0	0.0	0.0	1.0	8.0	5.0	14.5	20.0	24.0	19.0	10.0
21	6.5	0.5	0.0	0.0	0.0	6.0	10.0	20.5	23.0	20.0	20.5	16.5
22	5.5	0.5	0.0	1.0	0.0	8.0	11.0	13.0	18.5	17.0	19.5	16.5
23	6.5	0.5	0.0	1.0	1.0	10.0	13.5	11.0	18.5	21.0	16.5	11.5
24	9.0	1.5	0.0	1.0	0.5	8.5	15.5	15.5	21.0	21.0	14.0	15.0
25	8.0	1.0	0.0	0.0	1.5	6.0	10.0	14.0	16.5	24.0	16.5	10.0
26	9.0	1.0	2.5	0.0	4.5	7.0	8.0	16.0	18.5	22.0	15.5	10.5
27	6.5	1.5	0.0	1.0	6.0	5.5	8.5	16.5	18.5	20.0	18.5	11.5
28	6.0	1.5	0.0	0.0	3.0	4.5	14.5	16.5	18.0	21.0	17.0	18.5
29	8.5	1.5	0.0	1.5	3.5	4.5	11.5	16.5	18.0	21.0	18.0	13.0
30	0.0	2.0	0.0	1.5	---	5.0	11.0	20.5	19.0	22.0	19.0	13.0
31	1.5	---	0.0	0.0	---	6.0	---	19.5	---	29.5	17.0	---
MONTH	9.0	2.5	0.0	0.5	1.0	6.0	10.0	14.0	19.5	21.0	20.0	15.0

GREEN RIVER BASIN

09315000 GREEN RIVER AT GREEN RIVER, UTAH
(Irrigation network, pesticide, and radiochemical station)

LOCATION.--Lat 38°59'37", long 110°08'35", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.15, T.21 S., R.16 E., Emery County, at bridge on U.S. Highways 50 and 6, in town of Green River, 0.7 mile upstream from gaging station, and at mile 118.1 upstream from mouth.

DRAINAGE AREA.--40,600 sq mi, approximately (at gaging station).

PERIOD OF RECORD.--Chemical analyses: August 1928 to September 1972.

Water temperatures: May 1949 to September 1959, October 1964 to September 1972.

Sediment records: May 1930 to September 1972.

EXTREMES.--1971-72:

Specific conductance: Maximum daily, 1,210 micromhos Sept. 20; minimum daily, 385 micromhos June 6.

Water temperatures: Maximum, 26.5°C Aug. 10; minimum, freezing point on several days during December to February.

Sediment concentrations: Maximum daily, 11,200 mg/l Sept. 20; minimum daily, 60 mg/l Sept. 1.

Sediment loads: Maximum daily, 157,000 tons June 9; minimum daily, 358 tons Sept. 1.

Period of record:

Specific conductance (1941-72): Maximum daily, 3,250 micromhos Dec. 1, 1967; minimum daily, 272 micromhos May 13, 1956.

Water temperatures (1949-59, 1965-72): Maximum, 30.0°C Aug. 13, 1958; minimum, freezing point on many days during winter period each year.

Sediment concentrations: Maximum daily, 66,000 mg/l July 11, 1936; minimum daily, 20 mg/l Sept. 27, 1956.

Sediment loads: Maximum daily, 2,230,000 tons July 11, 1936; minimum daily, 54 tons Sept. 27, 1956.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HC03) (MG/L)	CAR- BONATE (C03) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT. 15...	1415	14.5	3090	5.3	60	37	100	3.0	204	0	320	29
NOV. 10...	1245	2.0	4530	8.6	85	37	100	3.4	217	0	320	29
DEC. 13...	1300	.0	2750	7.0	77	34	92	3.2	212	0	280	36
JAN. 11...	1230	.0	5450	--	74	32	90	4.2	226	0	260	31
FEB. 23...	1440	6.0	5840	--	66	28	76	3.1	207	0	230	27
MAR. 13...	1300	8.5	5710	--	70	26	70	4.3	197	0	220	22
APR. 12...	1300	12.5	6710	7.7	92	30	70	3.6	204	0	230	23
MAY 08...	1450	17.5	8200	8.7	53	20	45	3.3	156	0	150	14
JUNE 15...	1120	18.5	17000	8.5	36	12	26	4.3	121	0	88	11
JULY 25...	1130	23.0	3400	5.3	62	26	65	3.7	188	0	220	24
AUG. 11...	0950	23.5	3200	4.8	75	28	71	4.2	199	0	250	27
SEP. 13...	1030	17.5	2090	6.2	79	34	96	5.6	218	0	300	47

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (P04) (MG/L)	DIS- SOLVED BORON (B) (UG/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)
OCT. 15...	.4	.02	.03	180	655	.89	5460	300	130	2.5	961	7.9
NOV. 10...	.3	.50	.15	170	693	.94	8480	360	190	2.3	969	8.2
DEC. 13...	.4	.46	.03	100	636	.87	4720	330	160	2.2	928	8.0
JAN. 11...	--	.42	.00	--	604	.82	8890	320	130	2.2	881	8.1
FEB. 23...	--	.70	.00	--	535	.73	8440	280	110	2.0	869	8.1
MAR. 13...	--	.49	.03	--	512	.70	7890	280	120	1.8	768	8.0
APR. 12...	.3	.19	.00	120	558	.76	10100	350	190	1.6	764	8.3
MAY 08...	.3	.27	.03	90	372	.51	8240	210	87	1.3	575	7.9
JUNE 15...	.1	.37	.03	80	247	.34	11300	140	40	1.0	390	7.2
JULY 25...	.3	.05	.00	150	499	.68	4580	260	110	1.7	773	7.9
AUG. 11...	.4	.17	.03	160	559	.76	4830	300	140	1.8	847	8.2
SEP. 13...	.4	.10	.06	220	676	.92	3810	340	160	2.3	1030	8.1

GREEN RIVER BASIN

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09315000 GREEN RIVER AT GREEN RIVER, UTAH--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- SOLVED OXYGEN (MG/L)
OCT.	
15...	7.5
NOV.	
10...	12.1
JAN.	
11...	12.6
FEB.	
23...	11.3
MAR.	
13...	9.4
APR.	
12...	9.1
MAY	
08...	8.0
JUNE	
15...	7.4

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	940	870	970	820	780	---	540	410	510	770	855
2	1030	950	885	990	820	790	---	510	370	510	795	860
3	1040	1010	865	875	780	800	780	540	400	---	760	910
4	1020	1050	840	990	830	790	780	600	390	590	785	860
5	1020	1040	850	1000	840	790	790	560	390	590	---	910
6	---	1060	840	1000	870	785	810	535	385	625	765	925
7	---	1050	835	1000	870	770	830	545	410	625	805	965
8	---	990	845	1000	850	770	810	575	400	---	810	---
9	---	950	840	910	880	790	835	550	470	650	---	1020
10	---	960	875	910	820	790	820	565	410	685	800	995
11	910	930	885	910	790	795	785	540	420	655	820	985
12	910	960	800	985	815	795	770	530	---	675	810	970
13	900	955	870	840	790	795	---	535	410	710	805	970
14	915	960	---	830	810	805	730	---	420	710	810	---
15	920	950	900	800	770	800	690	510	395	725	810	965
16	930	970	920	785	780	800	700	535	390	720	780	930
17	935	1040	920	785	---	800	720	545	395	715	795	950
18	915	1040	900	790	---	785	625	635	---	705	795	910
19	965	1030	900	800	770	---	600	560	425	710	---	950
20	970	980	900	800	760	---	650	---	450	735	790	1210
21	1040	975	880	830	775	---	620	490	470	---	780	---
22	990	920	880	820	---	---	610	---	460	750	825	970
23	---	925	840	770	840	---	700	450	440	730	---	920
24	---	945	840	770	830	---	650	460	470	740	810	960
25	1010	945	835	820	835	---	655	430	440	---	840	1040
26	1180	950	---	815	765	---	670	440	470	755	850	1120
27	1060	935	---	810	775	---	660	450	470	750	825	---
28	1170	905	830	780	---	---	685	445	---	760	815	950
29	1180	880	890	770	740	---	610	---	530	---	---	950
30	1170	875	890	810	---	---	600	445	510	740	825	---
31	1060	---	890	820	---	770	---	440	---	760	---	---
MONTH	---	969	868	864	810	---	711	517	430	686	803	962

09315000 GREEN RIVER AT GREEN RIVER, UTAH--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TUNS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TUNS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TUNS/DAY)
1	3180	85	730	4650	577	8500	4790	244	3160
2	3290	84	569	4600	442	5490	4930	251	3340
3	3290	71	631	4490	420	5090	5010	250	3380
4	3240	73	639	4170	259	2920	5160	213	2970
5	3370	75	682	3570	244	2420	4820	250	3250
6	3600	86	836	3840	319	3310	5100	282	3880
7	3600	97	943	4250	299	3430	4750	199	2550
8	3290	104	959	4470	391	4720	4790	148	1910
9	3370	119	1080	4500	354	4300	4430	139	1660
10	3320	130	1170	4390	268	3180	4030	73	794
11	3570	141	1360	3890	244	2560	3620	126	1230
12	3370	119	1080	3830	160	1650	3540	295	2820
13	3350	308	2790	4210	188	2140	2520	256	1740
14	3250	250	2200	4060	168	1840	2450	236	1560
15	3080	117	973	4020	124	1350	2820	162	1230
16	3260	96	845	4090	196	2160	3050	201	1660
17	3540	331	3160	4330	230	2590	3210	353	3060
18	3680	343	3410	4140	226	2530	3290	121	1070
19	3880	314	3290	4070	328	3600	3240	77	674
20	3800	150	1540	4480	339	4100	3540	117	1120
21	3270	148	1310	4710	397	5050	4060	171	1870
22	3000	166	1340	4850	247	3230	4210	228	2590
23	3220	180	1560	4780	276	3560	4330	268	3130
24	3230	200	1740	4480	226	2730	4150	198	2220
25	3780	1600	16300	4780	278	3590	4790	214	2770
26	3760	5900	59900	4860	244	3200	5500	240	3560
27	3800	2700	27700	5000	393	5310	6050	650	10600
28	3470	860	8060	4910	374	4960	5970	570	9190
29	3360	918	8330	4910	369	4890	6120	493	8150
30	3320	545	4890	4950	199	2660	5360	533	7710
31	3870	591	6180	--	--	--	5020	522	7080
TOTAL	106420	--	166197	132380	--	107160	134650	--	101928

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TUNS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TUNS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TUNS/DAY)
1	4850	430	5630	4150	127	1420	5870	938	14900
2	4850	352	4610	3950	94	1000	5090	894	12300
3	4430	333	3980	3830	101	1040	5880	1480	23500
4	4240	553	6330	3470	89	834	6570	2170	38500
5	4060	300	3290	3780	134	1370	6580	2300	40900
6	2700	279	2030	3830	107	1110	6640	1720	30800
7	2270	285	1750	4010	100	1080	6410	1730	29900
8	2570	247	1710	4420	236	2920	5830	1390	21900
9	3970	255	2730	4740	180	2300	5620	1310	19900
10	4820	241	3140	4570	202	2490	5620	1410	21400
11	4820	453	5900	4560	146	1800	5830	1480	23300
12	4590	347	4300	4720	115	1470	6310	1440	24500
13	4150	309	3460	4540	191	2340	5790	1350	21100
14	3620	328	3210	5250	95	1350	5480	1300	19200
15	4790	672	8690	4940	198	2640	5220	1210	17100
16	5470	493	7280	5870	327	5180	5020	1150	15600
17	5090	339	4660	6700	290	5250	5310	997	14300
18	4490	269	3260	6650	240	4310	5890	1040	16500
19	4090	226	2500	5750	720	11200	5900	1040	16600
20	3820	301	3100	6780	1120	20500	5660	940	14400
21	3550	126	1210	6740	1240	22600	5010	844	11400
22	4070	128	1410	5930	960	15400	4470	787	9500
23	4670	256	3230	5770	957	14900	4080	729	8030
24	5180	268	3750	5440	690	10100	4230	672	7670
25	6050	155	2530	5600	701	10500	4490	615	7460
26	5860	149	2360	6570	1070	19000	4080	558	6150
27	4860	134	1760	7040	1120	21300	3900	500	5270
28	4650	317	3980	6870	1110	20600	3990	443	4770
29	4830	337	4390	6200	942	15800	4130	386	4300
30	4990	165	2220	--	--	--	3880	328	3440
31	4800	151	1960	--	--	--	3840	271	2810
TOTAL	137200	--	110360	152670	--	221904	162620	--	507400

GREEN RIVER BASIN

09315000 GREEN RIVER AT GREEN RIVER, UTAH--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3460	267	6700	7440	614	12400	14400	1610	62600
2	3740	252	6500	7110	734	14100	15700	2200	93300
3	4920	254	2500	6260	621	6310	15700	2160	97400
4	3740	205	2700	5600	341	9910	17300	1940	90600
5	3340	234	2150	6860	525	9720	16900	1850	84400
6	3420	211	1950	7210	590	11500	17600	2110	100000
7	3110	165	1550	6920	482	9010	17400	2570	124000
8	3220	177	1940	7170	500	9560	17700	2480	119000
9	3440	192	1780	6410	1130	27200	17500	3320	157000
10	4070	280	3680	10300	2030	56500	16700	2550	129000
11	5010	479	6360	10800	1780	51900	19700	2700	144000
12	6400	460	15600	10800	1800	52300	19100	2520	130000
13	6010	510	8280	11000	1510	44800	19600	2340	124000
14	7000	690	13000	11300	1450	44200	19000	2320	119000
15	7000	690	13000	11200	1390	42000	17100	2130	96300
16	7520	780	15600	10700	1690	43800	16200	1780	77900
17	8230	1000	22200	9460	1560	37400	14500	1600	62600
18	8310	1260	26300	8950	1970	47600	13100	1490	52700
19	6600	920	16400	9230	1520	37900	12600	1390	47300
20	5210	660	9280	10300	1440	40000	11900	1130	36300
21	5330	617	8680	11800	1360	43300	10800	1210	35300
22	5440	472	6950	12800	1520	52300	10200	1040	28600
23	5900	443	7060	13100	1670	59100	10200	936	25800
24	6620	491	8780	13600	1750	64300	9550	817	21100
25	5800	419	6560	13900	1780	66800	9070	801	19600
26	5770	385	6000	13300	1530	54900	8640	810	18900
27	5480	347	5130	12200	1360	45500	8250	866	19300
28	5690	318	4890	12300	1300	43200	7440	565	11300
29	6340	415	7100	12400	1380	48100	6770	364	6650
30	7080	552	10600	13300	1450	52100	6290	462	7850
31	--	--	--	13600	1420	52100	--	--	--
TOTAL	163180	--	243380	320320	--	1195230	420310	--	2143800

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	6180	475	7930	3270	158	1390	2210	60	358
2	5740	466	7220	3530	208	1980	2350	150	952
3	5180	430	6010	3820	540	5570	2430	580	3810
4	4930	393	5230	3960	1680	18000	2100	195	1110
5	4580	333	4120	4280	1550	17900	1820	461	2270
6	4240	288	3300	4290	460	5330	1820	190	934
7	4210	354	4020	3900	201	2120	1780	242	1160
8	4250	343	3940	3640	212	2080	1650	278	1240
9	4120	332	3690	3290	166	1470	1610	334	1450
10	4420	285	3400	3070	120	995	1650	214	953
11	4570	378	4660	3090	140	1170	1950	217	1140
12	4740	325	4160	3480	180	1690	2130	169	972
13	4090	189	2090	3350	128	1160	2120	180	1030
14	3990	243	2620	3380	122	1110	1940	132	691
15	4080	255	2810	3290	161	1430	1850	85	425
16	4170	233	2620	3110	100	840	1790	91	440
17	3880	227	2380	2790	74	557	1810	86	420
18	3740	166	1680	2820	73	556	2000	94	508
19	3670	235	2330	3160	105	896	2220	300	1800
20	3310	273	2440	3200	137	1180	2670	11200	80700
21	2880	278	2160	3110	268	2250	2550	6400	44100
22	3360	282	2560	3430	381	5380	2300	2500	15500
23	3320	195	1750	3290	343	3090	2480	500	3350
24	3260	184	1440	2960	116	927	2540	422	2890
25	3240	197	1720	2740	90	710	2500	745	5030
26	3050	230	1890	3190	150	1290	2240	831	5030
27	3240	227	1990	3300	111	989	2060	516	2870
28	3140	207	1750	3080	101	840	1990	200	1070
29	3420	220	2030	2790	84	633	1870	206	1040
30	3740	234	2360	2600	68	477	1850	200	999
31	3530	122	1160	2390	64	413	--	--	--
TOTAL	124270	--	97460	101600	--	84423	62280	--	184242

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

2017900
5164384

GREEN RIVER BASIN

57

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UTAH

LOCATION.--Lat 38°52'20", long 110°22'20", in NE¼SW¼ sec.27, T.22 S., R.14 E., Emery County, at gaging station at bridge on State Highway 24, 15 miles southwest of Green River, and 35 miles upstream from mouth.

DRAINAGE AREA.--1,670 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: November 1946 to September 1949, November 1950 to September 1972.

Water temperatures: July to September 1949, October 1950 to September 1962, October 1964 to September 1972.

Sediment records: March 1948 to September 1949, October 1950 to September 1959.

EXTREMES.--1971-72:

Specific conductance: Minimum daily, 2,550 micromhos Apr. 17.

Water temperatures: Maximum, 28.0°C July 15; minimum, freezing point on many days during November to February.

Period of record:

Specific conductance: Maximum daily (1948-49, 1950-70), 7,230 micromhos July 15, 1954; minimum daily (1948-49, 1950-72), 689 micromhos June 29, 1957.

Water temperatures: Maximum (1949, 1950-61, 1965-72), 35.0°C July 11, 1954; minimum (1949, 1950-61, 1964-72), freezing point on many days during winter period each year.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPER- ATURE (DEG C)	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 POT- AS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT. 14...	1530	15.5	51	5.4	240	170	490	8.7	315	0	2100	50
NOV. 10...	1525	7.0	70	8.9	260	160	480	11	323	0	2100	50
DEC. 13...	1600	.0	22	11	360	230	600	15	452	0	2700	72
JAN. 11...	1530	.0	39	--	280	180	440	8.9	478	0	2000	56
FEB. 09...	1600	.0	39	--	310	190	460	8.6	462	0	2000	62
MAR. 13...	1640	14.5	59	--	210	140	380	7.6	284	0	1600	53
APR. 10...	1530	16.0	21	4.6	280	200	540	10	295	0	2300	62
MAY 08...	1700	23.0	37	5.1	250	180	520	13	288	0	2200	56
JUNE 15...	1800	28.5	49	8.9	230	180	530	12	287	0	2100	51
JULY 13...	1830	31.0	24	6.4	270	120	340	11	244	0	1700	42
AUG. 09...	1230	26.0	15	9.9	320	110	390	12	238	0	1800	55
SEP. 13...	1600	24.0	11	6.0	320	210	540	14	269	0	2400	71

GREEN RIVER BASIN

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UTAH--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (P04) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)
OCT. 14...	.5	.11	.03	340	3220	4.38	447	1300	1000	5.9	3790	7.8
NOV. 10...	.4	.79	4.6	300	3240	4.41	612	1300	1000	5.8	3920	7.8
DEC. 13...	.5	1.3	3.1	330	4220	5.74	251	1600	1500	6.1	4920	7.6
JAN. 11...	--	1.1	.00	--	3200	4.35	337	1400	1000	5.0	3820	7.7
FEB. 09...	--	1.0	.03	--	3260	4.43	343	1600	1200	5.1	3960	8.0
MAR. 13...	--	.15	.00	--	2530	3.44	403	1100	870	5.0	3100	8.0
APR. 10...	.4	.12	.03	320	3540	4.81	207	1500	1300	6.0	4180	8.0
MAY 08...	.4	.08	.00	320	3370	4.58	344	1400	1100	6.1	4060	7.9
JUNE 15...	.3	.02	.00	380	3250	4.42	436	1300	1100	6.4	3810	7.6
JULY 13...	.4	.21	.00	260	2610	3.55	169	1200	970	4.3	3030	7.7
AUG. 09...	.7	.60	.03	330	2820	3.84	117	1300	1100	4.8	3410	7.9
SEP. 13...	.5	.00	.03	420	3690	5.02	111	1700	1400	5.8	4200	7.9

DATE	DIS- SOLVED OXYGEN (MG/L)
OCT. 14...	8.3
JAN. 11...	12.9
APR. 10...	7.9
MAY 08...	7.2
JUNE 15...	6.7
JULY 13...	5.8
AUG. 09...	6.9
SEP. 13...	7.4

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

[illegible]

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

[illegible]

DIRTY DEVIL RIVER BASIN

09330210 PLEASANT CREEK NEAR CAINEVILLE, UTAH

LOCATION.--Lat 38°16'20", long 111°05'30", in SW¼NE¼ sec.19, T.29 S., R.7 E., Wayne County, at gaging station 0.2 mile upstream from mouth, at confluence with Fremont River, and 6.5 miles west of Caineville.

DRAINAGE AREA.--115 sq mi, approximately.

PERIOD OF RECORD.--Sediment records: April 1969 to May 1972 (discontinued).

EXTREMES.--October 1971 to May 1972:

Sediment concentrations: Maximum daily, 11,700 mg/l Dec. 23; minimum daily, 20 mg/l Dec. 14, Jan. 15, 16.
Sediment loads: Maximum daily, 1,040 tons Dec. 23; minimum daily, 0.03 ton Dec. 14.

Period of record:

Sediment concentrations: Maximum daily, 55,600 mg/l Aug. 12, 1969; minimum daily, no flow for many days in 1971.

Sediment loads: Maximum daily, 40,900 tons Aug. 29, 1969; minimum daily, 0 tons on many days in 1971.

REMARKS.--Miscellaneous chemical analyses for this station given on page 107.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, OCTOBER 1971 TO MAY 1972

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PEN- DED SED- IMENT DIS- CHARGE (MG/L)	SUS- PEN- DED SED- IMENT 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
NOV. 05...	1700	8.0	1.7	4060	19	71	83	87	94	96	100	--
FEB. 14...	1430	5.5	4.7	2420	31	8	10	20	38	76	96	100
MAY 26...	1245	23.0	7.3	2000	39	10	17	30	48	82	99	100

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, OCTOBER 1971 TO MAY 1972

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
FEB. 14...	1430	5.5	4.7	--	4	34	77	90	93	95	97	100

SUSPENDED-SEDIMENT DISCHARGE, OCTOBER 1971 TO MAY 1972

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	2.2	269	1.6	1.4	77	.29	1.4	77	.29
2	2.3	290	1.8	1.6	102	.44	1.1	44	.13
3	2.4	324	2.1	1.7	118	.54	1.2	56	.18
4	1.7	118	.54	1.7	118	.54	.99	40	.11
5	1.7	118	.54	1.7	118	.54	1.3	66	.23
6	1.6	102	.44	1.7	118	.54	1.4	77	.29
7	1.8	130	.63	1.7	118	.54	1.0	37	.10
8	1.8	130	.63	1.7	118	.54	1.0	37	.10
9	1.8	130	.63	1.7	118	.54	1.0	37	.10
10	1.9	144	.74	1.8	130	.63	1.0	37	.10
11	1.8	130	.63	1.8	130	.63	1.0	37	.10
12	2.0	241	1.3	1.8	130	.63	1.0	37	.10
13	2.0	241	1.3	1.8	130	.63	1.0	37	.10
14	1.9	230	1.2	1.7	118	.54	.50	20	.03
15	1.5	220	.89	1.7	118	.54	1.0	37	.10
16	2.1	247	1.4	1.3	66	.23	.80	50	.11
17	2.3	290	1.8	1.0	37	.10	.90	40	.10
18	2.3	290	1.8	1.4	77	.29	1.2	56	.18
19	2.0	241	1.3	1.6	102	.44	1.7	118	.54
20	2.6	356	2.5	1.7	118	.54	1.6	102	.44
21	3.0	457	3.7	1.7	118	.54	1.5	86	.35
22	2.6	356	2.5	1.7	118	.54	19	6430	330
23	2.9	434	3.4	1.7	118	.54	33	11700	1040
24	6.3	1410	24	1.7	118	.54	30	11100	899
25	17	5660	260	1.7	118	.54	26	9120	640
26	1.7	118	.54	1.7	118	.54	11	3200	95
27	1.6	102	.44	1.7	118	.54	2.1	247	1.4
28	1.5	86	.35	1.7	118	.54	1.2	56	.18
29	1.4	77	.29	1.6	102	.44	.97	70	.18
30	1.3	66	.23	1.6	81	.35	1.2	493	1.6
31	1.2	56	.18	--	--	--	1.1	44	.13
TOTAL	80.2	--	319.40	49.3	--	14.82	149.16	--	3011.27

09330210 PLEASANT CREEK NEAR CAINEVILLE, UTAH--Continued

SUSPENDED-SEDIMENT DISCHARGE, OCTOBER 1971 TO MAY 1972

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.4	77	.29	.90	40	.10	2.6	356	2.5
2	1.4	77	.29	.54	40	.06	2.4	324	2.1
3	1.2	56	.18	.54	40	.06	2.4	324	2.1
4	.80	25	.05	.80	100	.22	2.6	356	2.5
5	.96	25	.06	2.0	141	.76	2.9	434	3.4
6	1.2	56	.18	2.5	341	2.3	3.1	478	4.0
7	1.2	56	.18	1.9	214	1.1	3.2	509	4.4
8	1.1	44	.13	2.3	290	1.8	3.2	509	4.4
9	1.1	44	.13	2.0	141	.76	3.0	457	3.7
10	1.1	44	.13	1.7	118	.54	3.0	457	3.7
11	1.6	102	.44	1.1	44	.13	3.2	509	4.4
12	1.1	44	.13	1.1	44	.13	3.2	509	4.4
13	2.0	698	3.8	1.1	44	.13	2.9	434	3.4
14	1.2	56	.18	2.8	2320	18	2.9	434	3.4
15	.70	20	.04	1.1	1000	3.0	2.6	356	2.5
16	.75	20	.04	1.1	300	.89	2.4	324	2.1
17	.90	30	.07	1.7	118	.54	2.3	290	1.8
18	.90	30	.07	1.8	130	.63	2.3	290	1.8
19	.90	30	.07	1.7	118	.54	2.2	269	1.6
20	.90	30	.07	1.6	102	.44	2.0	141	.76
21	.95	35	.09	1.5	86	.35	1.8	130	.63
22	1.0	37	.10	1.6	102	.44	1.7	118	.54
23	1.2	56	.18	1.6	102	.44	1.6	102	.44
24	1.2	56	.18	1.7	118	.54	1.4	77	.29
25	.81	40	.09	1.9	144	.74	1.3	66	.23
26	.63	40	.07	2.0	141	.76	1.2	56	.18
27	.60	40	.06	2.2	269	1.6	1.2	56	.18
28	.53	40	.06	2.3	290	1.8	1.1	44	.13
29	.54	40	.06	2.4	324	2.1	1.3	66	.23
30	.60	40	.06	--	--	--	1.7	118	.54
31	.82	40	.09	--	--	--	1.8	130	.63
TOTAL	31.29	--	7.57	47.48	--	40.90	70.5	--	62.98

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.1	44	.13	1.1	44	.13			
2	1.2	56	.18	1.9	144	.74			
3	1.2	56	.18	1.6	102	.44			
4	1.1	44	.13	1.8	130	.63			
5	1.1	44	.13	1.2	56	.18			
6	1.1	44	.13	.78	25	.05			
7	1.0	37	.10	1.0	37	.10			
8	1.0	37	.10	.85	25	.06			
9	1.0	37	.10	.87	25	.06			
10	1.0	37	.10	.93	25	.06			
11	.97	30	.08	.84	25	.06			
12	.96	30	.08	.91	25	.06			
13	.91	30	.07	1.0	37	.10			
14	1.3	66	.23	1.8	130	.63			
15	1.5	86	.35	2.0	241	1.3			
16	1.3	66	.23	2.4	324	2.1			
17	1.2	56	.18	2.9	434	3.4			
18	1.1	44	.13	2.6	356	2.5			
19	1.1	44	.13	2.5	341	2.3			
20	1.1	44	.13	3.0	457	3.7			
21	1.1	44	.13	3.0	457	3.7			
22	1.1	44	.13	2.8	410	3.1			
23	1.5	86	.35	3.1	478	4.0			
24	3.4	545	5.0	3.2	509	4.4			
25	3.0	457	3.7	4.7	867	11			
26	2.5	341	2.3	4.4	842	10			
27	2.4	324	2.1	4.0	722	7.8			
28	2.0	241	1.3	2.3	290	1.8			
29	1.6	102	.44	1.9	144	.74			
30	.77	25	.05	1.8	130	.63			
31	--	--	--	1.4	77	.29			
TOTAL	41.61	--	18.39	64.58	--	66.06			

TOTAL DISCHARGE FOR YEAR PERIOD OCT. 1 TO MAY 31, 1972 (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR PERIOD OCT. 1 TO MAY 31, 1972 (TONS)

534.12
3541.39

DIRTY DEVIL RIVER BASIN

09330230 FREMONT RIVER NEAR CAINEVILLE, UTAH

LOCATION.--Lat 38°16'40", long 111°04'00", in NE¼NE¼ sec.20, T.29 S., R.8 E., Wayne County, at gaging station 4.5 miles southwest of Caineville, 9.8 miles east of Fruita, and 2.0 miles downstream from Pleasant Creek.

DRAINAGE AREA.--1,190 sq mi, approximately.

PERIOD OF RECORD.--Water temperatures: March 1967 to September 1969.

Sediment records: March 1967 to May 1972 (discontinued).

EXTREMES.--October 1971 to May 1972:

Sediment concentrations: Maximum daily, 5,030 mg/l Oct. 25; minimum daily, 21 mg/l Apr. 28.

Sediment loads: Maximum daily, 1,400 tons Oct. 25; minimum daily, 1.9 tons Apr. 28, May 1, 17.

Period of record:

Sediment concentrations: Maximum daily, 129,000 mg/l July 20, 1969; minimum daily, 11 mg/l July 23, 1968.

Sediment loads: Maximum daily, 105,000 tons Sept. 10, 1969; minimum daily, 1 ton on several days in 1967 and 1968.

REMARKS.--Miscellaneous chemical analyses for this station given on page 107.

SUSPENDED-SEDIMENT DISCHARGE, OCTOBER 1971 TO MAY 1972

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	46	130	16	93	358	90	91	529	130
2	49	150	20	93	358	90	88	442	105
3	50	150	20	96	405	105	88	442	105
4	48	116	15	95	390	100	86	422	98
5	45	91	11	96	730	189	83	339	76
6	43	78	9.1	93	500	126	88	453	108
7	43	78	9.1	90	321	78	89	458	110
8	45	91	11	90	321	78	86	422	98
9	44	84	10	90	340	83	82	325	72
10	44	84	10	90	321	78	86	422	98
11	43	78	9.1	89	291	70	84	353	80
12	43	78	9.1	90	321	78	80	296	64
13	44	84	10	91	334	82	83	339	76
14	44	84	10	90	321	78	80	296	64
15	44	84	10	90	321	78	89	458	110
16	49	120	16	91	334	82	87	257	60
17	52	178	25	91	334	82	81	201	44
18	55	236	35	84	238	54	99	486	130
19	54	241	35	81	500	109	94	378	96
20	51	160	22	85	756	174	90	329	80
21	51	160	22	88	610	145	90	329	80
22	54	206	30	88	470	112	98	454	120
23	59	339	54	91	334	82	98	454	120
24	63	470	80	91	334	82	94	378	96
25	103	5030	1400	91	334	82	114	1880	579
26	85	1960	450	91	334	82	121	2570	840
27	80	1530	330	92	362	90	110	1550	460
28	76	1300	267	89	325	78	103	1220	339
29	80	1060	229	88	286	68	96	694	180
30	78	830	175	91	218	54	94	500	127
31	77	590	123	--	--	--	92	362	90
TOTAL	1742	--	3472.4	2708	--	2779	2844	--	4835

09330230 FREMONT RIVER NEAR CAINEVILLE, UTAH--Continued

SUSPENDED-SEDIMENT DISCHARGE, OCTOBER 1971 TO MAY 1972

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	95	409	105	94	378	95	114	910	280
2	97	431	113	86	258	67	112	860	260
3	91	350	86	84	238	54	105	635	180
4	90	194	42	94	378	95	110	741	220
5	97	431	113	92	362	90	125	1300	439
6	97	431	113	96	405	105	132	1630	581
7	97	431	113	95	409	105	126	1290	439
8	97	431	113	97	431	113	119	1060	341
9	94	386	98	99	486	130	109	714	210
10	96	405	105	98	491	130	97	431	113
11	97	431	113	98	491	130	89	291	70
12	97	431	113	98	491	130	84	238	54
13	93	557	147	101	550	150	79	272	58
14	95	409	105	104	752	211	77	241	50
15	94	386	98	103	611	170	74	200	40
16	97	431	113	103	611	170	71	167	32
17	96	405	105	105	471	134	68	142	26
18	101	550	150	106	629	180	67	127	23
19	101	550	150	106	629	180	63	100	17
20	101	550	150	107	655	190	61	91	15
21	101	550	150	117	950	300	61	91	15
22	102	581	160	141	2310	879	60	86	14
23	102	581	160	140	2050	775	54	100	15
24	96	405	105	123	1360	452	54	136	20
25	98	491	130	104	668	184	55	100	15
26	98	491	130	101	550	150	55	46	6.8
27	93	358	90	101	550	150	55	46	6.8
28	94	378	96	102	581	160	58	55	8.6
29	94	378	96	105	635	180	60	62	10
30	90	329	80	--	--	--	61	44	7.2
31	94	493	125	--	--	--	61	61	10
TOTAL	2980	--	3567	3000	--	5853	2516	--	3576.4
DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	60	62	10	28	25	1.9			
2	59	60	9.6	29	57	4.5			
3	56	49	7.4	29	43	3.4			
4	55	46	6.8	27	27	2.0			
5	55	29	4.3	28	40	3.0			
6	54	26	3.8	28	34	2.6			
7	53	28	4.0	31	37	3.1			
8	53	29	4.1	29	32	2.5			
9	53	44	6.3	28	36	2.7			
10	53	53	7.6	27	35	2.6			
11	68	241	44	29	30	2.3			
12	70	150	26	28	30	2.3			
13	70	129	24	28	30	2.3			
14	73	130	26	27	30	2.2			
15	76	267	55	27	30	2.2			
16	76	194	40	26	30	2.1			
17	74	166	33	24	30	1.9			
18	72	112	22	30	30	2.4			
19	72	86	17	31	30	2.5			
20	77	128	27	29	30	2.3			
21	78	139	29	32	40	3.5			
22	75	128	26	30	40	3.2			
23	62	117	20	30	40	3.2			
24	53	58	8.3	31	40	3.3			
25	49	46	6.1	32	79	6.8			
26	43	59	6.8	36	40	3.9			
27	43	40	4.6	33	30	2.7			
28	33	21	1.9	31	30	2.5			
29	32	24	2.1	29	30	2.3			
30	29	25	2.0	28	30	2.3			
31	--	--	--	28	30	2.3			
TOTAL	1776	--	486.7	903	--	80.8			

TOTAL DISCHARGE FOR PERIOD OCT. 1 TO MAY 31, 1972

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR PERIOD OCT. 1 TO MAY 31, 1972

18469
24661.3

DIRTY DEVIL RIVER BASIN

09330230 FREMONT RIVER NEAR CAINEVILLE, UTAH--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, OCTOBER 1971 TO MAY 1972

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
NOV. 30...	1330	2.5	98	190	50	14	16
JAN. 13...	1230	3.5	93	558	140	10	13
FEB. 14...	1210	5.0	106	543	155	11	13
AUG. 09...	1110	24.0	28	393	30	5	6

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .002 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
NOV. 30...	--	60	78	98	100	--
JAN. 13...	25	58	81	100	--	--
FEB. 14...	27	55	83	99	100	--
AUG. 09...	--	38	84	100	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, OCTOBER 1971 TO MAY 1972

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
NOV. 30...	1330	2.5	98	1	17	71	90
FEB. 14...	1210	5.0	106	1	16	54	86
AUG. 09...	1110	24.0	28	--	11	37	51

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
NOV. 30...	95	95	97	99	100	--
FEB. 14...	92	94	98	100	--	--
AUG. 09...	58	64	74	84	94	100

09379500 SAN JUAN RIVER NEAR BLUFF, UTAH
(Irrigation network station)

LOCATION.--Lat 37°09'04", long 109°52'00", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.7, T.42 S., R.19 E., San Juan County, at bridge on State Highway 47, 1,800 ft downstream from gaging station, 20 miles southwest of Bluff, and 114 miles upstream from mouth.

DRAINAGE AREA.--23,000 sq mi, approximately (at gaging station).

PERIOD OF RECORD.--Chemical analyses: February to June 1927, October 1929 to September 1972.

Water temperatures: May 1944 to September 1961, October 1964 to September 1972.

Sediment records: August to September 1928, July 1929 to September 1972.

EXTREMES.--1971-72:

Specific conductance: Maximum daily, 2,060 micromhos Aug. 10; minimum daily, 505 micromhos Jan. 3.

Water temperatures: Maximum, 30.0°C on several days during July and August; minimum, freezing point on many days during December to February.

Sediment concentrations: Maximum daily, 305,000 mg/l Aug. 28; minimum daily, 88 mg/l July 16.

Sediment loads: Maximum daily, 2,170,000 tons Aug. 28; minimum daily, 45 tons July 16.

Period of record:

Specific conductance (1941-72): Maximum daily, 2,790 micromhos Sept. 19, 1959; minimum daily (1929-72), 208 micromhos June 17, 1952.

Water temperatures: Maximum, 33.0°C July 31, 1959; minimum (1944-61, 1965-72), freezing point on many days during winter period of most years.

Sediment concentrations (1929-72): Maximum daily, 383,000 mg/l Sept. 21, 1929; minimum daily, no flow for several days in 1934 and 1939.

Sediment loads (1929-72): Maximum daily, 12,000,000 tons Oct. 14, 1941; minimum daily, 0 tons on several days in 1934 and 1939.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NESIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT.												
06...	1510	15.0	1210	11	93	20	110	4.3	195	0	360	18
NOV.												
17...	1300	7.0	1250	8.6	100	31	120	5.5	176	0	410	41
DEC.												
07...	1600	1.5	890	8.9	110	36	100	3.2	162	0	380	24
JAN.												
13...	1300	2.0	1810	--	71	20	47	2.4	143	0	200	13
FEB.												
15...	1350	6.5	2020	--	64	19	63	5.2	142	0	190	20
MAR.												
07...	1300	11.0	1890	--	63	17	43	3.0	139	0	190	13
APR.												
24...	1400	16.5	613	7.4	91	28	84	3.9	166	0	340	24
MAY												
01...	1450	14.5	937	8.3	83	24	59	3.4	151	0	270	19
JUNE												
08...	1200	19.5	2860	7.6	60	15	36	4.2	114	0	180	12
JULY												
06...	1100	22.5	354	6.4	88	33	96	5.8	127	0	410	31
AUG.												
15...	1030	22.5	89	10	120	37	170	5.8	73	0	700	37
SEP.												
18...	1330	20.0	810	11	87	12	72	4.4	171	0	250	18

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO ₄) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (IONS PER AC-FT)	DIS- SOLVED SOLIDS (IONS PER DAY)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)
OCT.											
06...	.7	1.3	.03	100	719	.98	2350	310	150	2.7	7.8
NOV.											
17...	.5	1.5	.06	130	810	1.10	2730	380	230	2.7	7.8
DEC.											
07...	.2	1.0	.09	120	756	1.03	1820	420	270	2.1	8.0
JAN.											
13...	--	.64	.03	--	426	.58	2080	260	140	1.3	7.9
FEB.											
15...	--	.54	.06	--	434	.59	2370	240	120	1.8	8.1
MAR.											
07...	--	.42	.06	--	399	.54	2040	230	110	1.2	8.1
APR.											
24...	.4	.91	.15	0	665	.90	1100	340	210	2.0	8.3
MAY											
01...	.6	1.3	.00	120	547	.74	1380	310	180	1.5	8.2
JUNE											
08...	.3	.68	.03	100	374	.51	2890	210	120	1.1	7.9
JULY											
06...	.4	.07	.00	100	733	1.00	701	360	250	2.2	8.2
AUG.											
15...	.7	.27	.03	360	1120	1.52	271	450	390	3.5	7.8
SEP.											
18...	.6	.90	.09	150	543	.74	1190	270	130	1.9	8.1

SAN JUAN RIVER BASIN

09379500 SAN JUAN RIVER NEAR BLUFF, UTAH--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- SOLVED OXYGEN (MG/L)
NOV. 17...	10.2
DEC. 07...	11.6
JAN. 13...	12.4
MAR. 07...	9.4
APR. 24...	8.0
MAY 01...	7.4
JUNE 08...	7.2
JULY 06...	7.0
AUG. 15...	7.8

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1320	1040	1050	---	620	640	---	805	540	---	1230	980
2	---	1080	1040	665	610	650	585	825	535	---	1250	---
3	1160	1100	1050	505	625	640	585	770	---	925	1300	910
4	1080	1090	---	570	600	---	600	740	525	950	---	915
5	1020	1040	1120	670	---	615	580	750	680	965	1360	895
6	1000	---	1100	605	600	615	590	---	570	1040	1450	840
7	1000	1070	910	610	635	600	590	700	560	1020	1450	860
8	980	1110	1000	610	625	605	---	660	560	1040	1570	1400
9	---	1090	940	---	630	605	595	710	550	1010	2050	---
10	1000	1090	1140	650	650	600	590	770	---	1080	2060	1040
11	1000	1100	---	670	635	---	575	840	580	1060	1450	1120
12	1020	1100	1060	660	---	570	600	880	575	1030	---	940
13	1020	---	1060	645	600	570	670	---	600	1060	1470	905
14	1020	1100	810	690	610	575	840	915	650	1160	1600	930
15	1030	1060	940	---	625	550	---	950	630	1140	1600	1160
16	---	1050	690	645	670	550	895	950	675	---	1700	---
17	1030	1120	800	630	665	530	880	1000	---	1220	1700	---
18	1160	1200	---	640	680	---	905	970	700	1200	1650	830
19	1040	1260	640	655	---	555	910	865	700	980	---	830
20	1210	---	600	660	685	560	980	---	720	1130	1680	825
21	1220	1120	550	675	695	570	1070	710	680	1220	1510	1150
22	1160	1110	620	---	685	565	---	665	700	---	1750	1140
23	---	1160	640	660	680	550	---	685	875	1470	1220	1110
24	1150	1120	650	670	685	550	940	660	---	1560	1180	1010
25	1160	1130	---	685	645	---	980	650	935	1560	985	900
26	955	1100	770	650	---	550	1010	695	820	1580	---	930
27	1230	---	760	670	665	560	1020	---	825	1550	1010	970
28	1280	1100	960	690	650	550	910	680	855	1590	1390	990
29	1200	1100	770	---	635	600	790	580	855	---	1690	1040
30	---	1100	780	630	---	550	770	555	870	1620	1250	---
31	1150	---	710	625	---	590	---	530	---	1340	1240	---
MONTH	1100	1110	861	644	646	580	778	760	683	1210	1470	985

SAN JUAN RIVER BASIN

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09379500 SAN JUAN RIVER NEAR BLUFF, UTAH--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.5	7.0	3.5	---	0.5	8.5	---	16.5	23.0	---	30.0	23.0
2	---	7.0	4.5	1.0	0.0	8.5	13.0	17.0	23.0	---	30.0	---
3	13.5	7.0	3.5	1.0	0.0	9.5	14.0	17.0	---	25.5	30.0	23.5
4	14.5	7.0	---	0.0	0.0	---	15.0	17.5	21.0	27.0	---	23.0
5	15.0	8.5	1.0	0.0	---	9.5	15.0	17.0	21.5	27.0	30.0	24.0
6	16.0	---	1.5	0.0	1.0	11.5	16.0	---	20.5	27.0	30.0	23.5
7	16.5	7.0	1.0	0.0	3.5	12.0	16.5	18.5	20.5	27.0	30.0	23.0
8	17.0	9.0	1.5	0.0	3.5	12.0	---	19.0	20.0	26.5	28.0	23.0
9	---	8.5	0.0	---	5.0	12.0	15.0	18.5	21.5	24.5	28.0	---
10	18.5	8.5	0.0	0.5	4.5	13.0	15.0	18.0	---	27.0	29.0	22.5
11	18.0	8.5	---	0.5	4.0	---	15.0	18.5	21.5	28.5	29.5	21.5
12	16.5	6.5	0.0	1.0	---	13.5	15.0	18.0	21.0	29.0	---	22.5
13	16.5	---	0.0	1.0	2.5	13.5	11.5	---	23.0	29.5	25.0	22.5
14	16.5	7.0	0.0	1.5	4.0	13.5	10.0	20.0	23.0	29.0	28.0	23.0
15	16.0	7.5	0.0	---	6.0	11.5	---	21.0	21.0	25.5	28.0	22.0
16	---	8.5	0.0	0.5	6.0	9.5	11.5	21.0	24.5	---	29.5	---
17	11.0	7.0	0.0	1.0	6.5	11.5	15.0	19.0	---	30.0	29.0	---
18	8.5	4.5	---	1.5	6.0	---	13.5	20.5	23.5	26.5	25.0	20.5
19	9.5	4.5	0.0	2.0	---	11.5	13.0	17.0	23.5	24.5	---	21.0
20	10.5	---	0.0	3.0	6.0	12.0	13.5	---	23.5	25.0	22.5	20.5
21	12.0	4.5	0.0	3.0	8.0	9.5	14.5	16.5	23.5	23.5	23.5	19.5
22	13.0	5.0	0.0	---	8.5	13.0	---	18.5	22.0	---	22.5	20.0
23	---	5.5	0.5	3.0	9.0	13.0	---	19.5	21.5	27.0	23.0	19.0
24	13.0	5.0	0.5	4.0	8.5	13.5	19.0	20.0	---	27.0	23.0	15.0
25	13.0	5.0	---	3.0	8.0	---	16.5	20.0	20.5	29.0	20.5	18.5
26	10.0	5.5	1.0	2.0	---	12.0	18.0	21.0	23.0	30.0	---	15.5
27	10.5	---	4.0	3.5	6.5	11.5	16.5	---	23.5	30.0	22.0	18.5
28	10.0	3.5	4.0	3.0	9.5	9.5	16.0	20.0	24.0	30.0	21.0	21.5
29	8.5	3.0	4.0	---	10.0	9.0	16.5	21.5	24.5	---	21.0	21.0
30	---	4.5	3.5	0.5	---	9.5	17.0	22.0	25.5	30.0	23.5	---
31	7.5	---	2.5	0.5	---	10.5	---	23.0	---	29.5	23.5	---
MONTH	13.5	6.5	1.5	1.5	5.0	11.5	15.0	19.5	22.5	27.5	26.0	21.0
YEAR	14.0											

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4960	53000	846000	850	4430	10200	958	3780	9780
2	4800	47000	609000	889	5600	13400	957	3440	8890
3	3020	23000	188000	998	1800	4850	992	3770	10100
4	1690	32100	146000	1000	5900	15900	1030	4090	11400
5	1390	23400	87800	985	4380	11600	981	4420	11700
6	1190	11300	36300	976	5200	13700	958	3600	9310
7	1080	8700	25400	959	6030	15600	932	2790	7020
8	1040	6280	17600	935	6140	15500	944	844	2150
9	1020	5560	15300	910	6240	15300	1020	1130	3110
10	1020	4840	13300	905	5740	14000	972	934	2450
11	947	3520	9000	852	5250	12100	1030	1150	3200
12	906	4720	11500	864	5710	13300	972	934	2450
13	804	3930	8530	887	6160	14800	889	792	1900
14	889	3440	8260	864	6620	15400	796	605	1300
15	906	3670	8980	1010	7080	19300	889	792	1900
16	990	3600	9620	1340	6100	22100	1920	6940	36000
17	2980	25800	408000	1440	5110	19900	2090	7620	43000
18	4500	50000	608000	1300	6260	22000	2120	8740	50000
19	2660	43000	309000	1190	7400	23800	2020	7520	41000
20	1260	22000	74800	1080	6140	17900	2250	10200	62000
21	753	11000	22400	997	4880	13100	2210	9720	58000
22	704	8150	15500	944	4760	12100	2250	10200	62000
23	811	6000	13100	947	4630	11800	2450	12100	80000
24	850	3860	8860	975	2070	5450	3000	18600	151000
25	1020	4750	13100	967	1510	3940	3150	21200	180000
26	2960	41800	388000	945	1510	3850	3410	23900	220000
27	1670	42000	189000	962	1500	3900	3850	27700	288000
28	850	16000	36700	969	1490	3900	3260	22100	195000
29	881	11000	26200	940	2800	7110	2650	13600	97300
30	834	7800	17600	966	4110	10700	2420	11600	75800
31	796	4600	9890	--	--	--	2200	9670	57400
TOTAL	50181	--	4180740	29846	--	386500	55570	--	1783160

SAN JUAN RIVER BASIN

09379500 SAN JUAN RIVER NEAR BLUFF, UTAH--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2060	7910	44000	1800	2990	14500	1850	2650	13200
2	2060	8560	47600	1730	2510	11700	1870	3380	17100
3	2030	7840	43000	1790	2490	12000	1870	2970	15000
4	2070	8230	46000	1720	2460	11400	1820	2570	12600
5	2080	8370	47000	1720	2440	11300	1870	2160	10900
6	1940	7250	38000	1890	2410	12300	1910	2460	12700
7	2010	7740	42000	1910	3440	17700	1860	2770	13900
8	1970	7330	39000	1890	4480	22900	1770	2720	13000
9	1920	6940	36000	1880	3330	16900	1920	2670	13800
10	2070	8230	46000	1940	2180	11400	1940	2230	11700
11	2020	5970	32600	1970	2660	14100	1900	1800	9230
12	1880	4270	21700	1950	3130	16500	2010	1360	7380
13	1870	2610	13200	1930	3610	18800	2070	1450	8100
14	1920	2890	15000	1930	3250	16900	2060	1540	8570
15	1950	3130	16500	1920	2890	15000	2070	1600	8940
16	1880	3350	17000	1950	2710	14300	2170	1650	9670
17	1880	2980	15100	1940	2530	13300	2130	1780	10200
18	1890	2810	14300	1970	2920	15500	2010	1900	10300
19	1860	2450	12300	2000	3310	17900	2010	2030	11000
20	1880	1830	9290	1920	3700	19200	1980	1740	9300
21	1870	2400	12100	1950	3700	19500	1940	1440	7540
22	1940	2980	15600	1970	3710	19700	1990	2030	10900
23	1930	3550	18500	1940	3650	19100	1970	2630	14000
24	1920	4480	23200	2030	3590	19700	1960	2420	12800
25	1940	5420	28400	1990	2990	16100	2030	2210	12100
26	1840	4680	23300	1910	2380	12300	1980	2000	10700
27	1840	3930	19500	1880	1780	9040	1950	1790	9420
28	1930	3940	20500	1930	1850	9640	1870	1580	7980
29	1920	3950	20500	1870	1920	9690	1850	1630	8140
30	1890	3960	20200	--	--	--	1790	1680	8120
31	1860	3480	17500	--	--	--	1820	1650	8110
TOTAL	60120	--	814890	55220	--	438370	60240	--	336400

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1770	1380	6600	894	1280	3090	2780	1920	14400
2	1710	1120	5170	982	2250	5970	2790	1860	14000
3	1670	1180	5320	1110	2780	8330	3000	1800	14600
4	1670	1510	6810	1080	3280	9560	3020	1740	14200
5	1530	1300	5370	1180	3810	12100	3010	1990	16200
6	1530	1220	5040	1440	4340	16900	2890	2240	17500
7	1500	1200	4860	1620	4870	21300	2740	1750	12900
8	1510	1280	5220	1520	3360	13800	2750	2680	19900
9	1490	1350	5430	1270	1850	6340	2740	2870	21200
10	1490	1280	5150	1090	1680	4940	3190	2160	18600
11	1540	1200	4990	960	1510	3910	2710	1440	10500
12	1470	881	3500	882	1500	3570	2270	2090	12800
13	925	562	1400	929	1490	3740	2080	2740	15400
14	870	649	1520	883	1480	3530	1860	2270	11400
15	887	736	1760	808	1470	3210	1760	1800	8550
16	868	823	1930	757	961	1960	1550	1840	7700
17	789	962	2050	801	452	978	1500	1880	7610
18	684	1100	2030	880	678	1610	1510	1920	7830
19	626	1050	1770	1380	903	3360	1480	1500	5990
20	525	997	1410	1430	682	2630	1450	1080	4230
21	598	978	1580	1500	462	1870	1360	860	3160
22	655	959	1700	1460	500	1970	1320	639	2280
23	586	940	1490	1610	2860	12400	1740	3600	16900
24	625	920	1550	1560	1100	4630	1270	3800	13000
25	592	772	1230	1400	1010	3820	1530	4800	19800
26	578	625	975	1280	1000	3460	1460	4400	17300
27	669	1000	1810	1600	1300	5620	1190	3000	9640
28	1140	2150	6620	1910	2300	11900	1050	2560	7260
29	1130	1400	4270	2020	3000	16400	856	2120	4900
30	945	600	1530	2190	2900	17100	695	1690	3170
31	--	--	--	2460	3200	21300	--	--	--
TOTAL	32572	--	100085	40886	--	231298	59551	--	352920

09379500 SAN JUAN RIVER NEAR BLUFF, UTAH--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	570	1250	1920	205	529	293	850	35000	80300
2	520	810	1140	190	428	220	800	15000	32400
3	468	369	466	170	326	150	780	5360	11300
4	428	337	389	155	265	111	760	5000	10300
5	386	305	318	140	204	77	750	4630	9380
6	336	290	263	130	144	51	718	5000	9690
7	352	275	261	120	300	97	1200	14200	46000
8	334	247	223	140	3200	1210	1530	15000	62000
9	285	219	169	190	3000	1540	1210	15000	49000
10	288	170	132	277	7280	5440	869	12300	28900
11	304	122	100	244	1500	988	863	13000	30300
12	268	155	112	180	1000	486	880	5600	13300
13	267	188	136	110	1360	404	1290	14000	48800
14	226	100	61	95	960	246	1800	19200	93300
15	210	100	57	90	557	135	1180	12000	38200
16	190	88	45	90	526	128	982	9000	23900
17	170	500	230	94	494	125	895	7000	16900
18	198	1100	588	98	444	117	840	5630	12800
19	433	6800	7950	115	394	122	852	4380	10100
20	404	7300	7960	140	345	130	866	3140	7360
21	257	4600	3190	738	65000	130000	937	5500	13900
22	200	3800	2050	889	79000	190000	1020	7600	20900
23	160	2920	1260	750	50000	101000	1410	12000	45700
24	130	1980	695	607	16000	26200	1020	8600	23700
25	120	1030	334	433	7000	8180	846	5000	11400
26	120	1380	447	724	100000	195000	753	2090	4250
27	140	1740	658	1350	57000	208000	774	1700	3550
28	170	1260	578	2630	305000	2170000	638	1230	2120
29	200	791	427	2140	140000	809000	566	1000	1530
30	241	910	592	1230	47000	156000	520	800	1120
31	238	720	463	964	40000	104000	--	--	--
TOTAL	8613	--	33214	15428	--	4109450	28401	--	762400
TOTAL DISCHARGE FOR YEAR (CFS-DAYS)									496628
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)									13529427

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL	SUS. SED. FALL	SUS. SED. FALL	SUS. SED. FALL	SUS. SED. FALL	SUS. SED. FALL	SUS. SED. FALL
						% FINER THAN .002 MM	% FINER THAN .004 MM	% FINER THAN .016 MM	% FINER THAN .062 MM	% FINER THAN .125 MM	% FINER THAN .250 MM	% FINER THAN .500 MM
OCT.												
01...	1600	13.5	6420	89600	1550000	40	44	49	67	81	98	100
03...	1730	13.5	2160	59100	345000	61	66	74	81	88	98	100
06...	1450	15.0	1210	11000	35900	69	72	82	96	100	--	--
19...	1600	9.5	2880	64400	501000	36	39	46	68	90	98	100
27...	1530	10.0	3150	55700	474000	20	21	25	45	69	94	100
NOV.												
03...	1430	7.0	1020	1790	4930	28	30	38	78	99	100	--
JAN.												
13...	1155	2.0	1810	2510	12300	6	7	10	36	79	97	100
APR.												
03...	1310	11.5	1690	1180	5380	5	6	9	32	68	96	100
JUNE												
08...	1110	19.5	2860	2580	19900	14	16	22	52	78	94	100
JULY												
20...	1515	25.0	560	10800	16300	56	61	90	100	--	--	--
AUG.												
15...	1230	22.5	90	494	120	71	85	97	100	--	--	--
29...	--	21.0	1640	7890	34900	58	65	77	91	99	100	--
SEP.												
18...	1550	21.0	810	5280	11500	43	52	59	77	95	100	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	BED MAT. FALL	BED MAT. FALL	BED MAT. FALL	BED MAT. FALL	BED MAT. SIEVE	BED MAT. SIEVE	BED MAT. SIEVE	BED MAT. SIEVE	BED MAT. SIEVE
				% FINER THAN .062 MM	% FINER THAN .125 MM	% FINER THAN .250 MM	% FINER THAN .500 MM	% FINER THAN 1.00 MM	% FINER THAN 2.00 MM	% FINER THAN 4.00 MM	% FINER THAN 8.00 MM	% FINER THAN 16.0 MM
OCT.												
06...	1450	15.0	1210	13	38	75	95	100	--	--	--	--
JAN.												
13...	1155	2.0	1810	--	16	71	100	--	--	--	--	--
APR.												
03...	1310	11.5	1690	3	15	75	100	--	--	--	--	--

VIRGIN RIVER BASIN

09408150 VIRGIN RIVER NEAR HURRICANE, UTAH

LOCATION.--Lat 37°09'45", long 113°23'42', in NE $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.2, T.42 S., R.14 W., Washington County, at gaging station 6.2 miles west of Hurricane, 15 miles northeast of St. George, and 1.8 miles downstream from Quail Creek.

DRAINAGE AREA.--1,530 sq mi, approximately.

PERIOD OF RECORD.--Water temperatures: March 1967 to September 1971.

Sediment records: March 1967 to September 1972.

EXTREMES.--1971-72:

Sediment concentrations: Maximum daily, 200,000 mg/l June 23; minimum daily, 306 mg/l May 19.

Sediment loads: Maximum daily, 1,930,000 tons Sept. 19; minimum daily, 50 tons May 19.

Period of record:

Water temperatures: Maximum, 31.0°C July 3, 25, 1967, Aug. 1, 8, 1969; minimum, freezing point Dec. 14, 1967, Dec. 29, 31, 1969, Jan. 2, 1970.

Sediment concentrations: Maximum daily, 219,000 mg/l Aug. 5, 1970; minimum daily, 37 mg/l July 12, 1969.

Sediment loads: Maximum daily, 756,000 tons Jan. 25, 1969; minimum daily, 9.0 tons July 15, 1969.

REMARKS.--Miscellaneous chemical analyses for this station given on page 111.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	67	2110	382	135	1970	718	144	1160	451
2	66	1660	296	140	2010	760	131	1110	393
3	65	1220	214	140	1870	707	146	1110	438
4	57	1020	157	140	1740	658	143	1110	429
5	50	811	109	138	1680	626	133	1120	402
6	53	1240	177	132	1620	577	134	1120	405
7	57	1220	188	137	1560	577	147	1100	437
8	60	1160	188	141	1500	571	146	1080	426
9	60	1100	178	135	1440	525	140	1060	401
10	59	1040	166	130	1380	484	143	1070	413
11	53	1060	152	130	1360	477	150	1080	437
12	52	1090	153	135	1260	459	154	1090	453
13	47	1020	129	141	1200	457	148	1100	440
14	50	946	128	132	1510	538	153	1200	496
15	52	874	123	149	1830	736	156	1300	548
16	188	2960	4340	300	2140	1730	154	1400	582
17	417	9070	11100	163	2900	1280	147	1310	520
18	201	7400	4020	146	2680	1060	154	1220	507
19	121	2470	807	146	2470	974	162	1130	494
20	105	2680	760	138	2260	842	168	1220	553
21	103	3090	859	146	2050	808	164	1320	584
22	129	3400	1180	149	1840	740	181	1420	694
23	124	3800	1270	146	1620	639	478	1510	1950
24	593	39300	133000	127	1420	487	572	8760	19600
25	507	19200	32800	124	1260	422	6160	25000	273000
26	180	6060	2950	127	1110	381	1440	14700	64000
27	165	5500	2450	124	1160	388	528	6600	9410
28	150	4900	1980	124	1210	405	361	4700	4580
29	135	4290	1560	130	1260	442	306	2810	2320
30	125	3100	1050	143	1210	467	257	2390	1660
31	140	1930	730	--	--	--	225	1980	1200
TOTAL	4231	--	203596	4288	--	19935	13625	--	388223

09408150 VIRGIN RIVER NEAR HURRICANE, UTAH--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	206	1730	962	143	640	247	186	915	460
2	209	1470	830	135	670	244	167	900	406
3	196	1220	646	139	702	263	186	884	444
4	165	970	432	144	700	272	229	1400	866
5	149	716	288	153	697	288	245	1930	1280
6	168	1050	476	160	694	300	226	1450	885
7	186	1070	537	156	692	291	226	966	589
8	184	1100	546	152	706	290	207	938	524
9	178	1120	538	151	720	294	191	909	469
10	169	830	379	147	733	291	197	782	416
11	168	539	244	145	800	313	186	654	328
12	174	610	287	136	782	287	169	622	284
13	178	680	327	146	764	301	171	589	272
14	177	755	361	162	745	326	175	702	332
15	170	800	367	159	652	280	174	815	383
16	169	840	383	153	559	231	154	643	267
17	172	891	414	151	466	190	127	454	156
18	170	850	390	161	531	231	124	408	137
19	172	812	377	169	596	272	126	378	129
20	172	900	418	168	660	299	126	388	132
21	170	980	450	182	756	371	109	397	117
22	175	1060	501	186	852	428	101	407	111
23	174	1150	540	179	949	459	106	399	114
24	168	1120	508	172	815	378	103	430	120
25	161	1090	474	165	681	303	98	460	122
26	162	1060	464	166	548	246	95	492	126
27	164	1030	456	168	690	313	89	470	113
28	159	920	395	180	832	404	94	450	114
29	157	820	348	187	975	492	84	430	98
30	154	710	295	--	--	--	79	426	91
31	137	602	223	--	--	--	73	401	79
TOTAL	5313	--	13856	4615	--	8904	4623	--	9964

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	71	362	69	99	577	154	120	461	149
2	71	328	63	86	472	110	66	531	95
3	74	416	83	92	368	91	56	600	91
4	73	504	99	95	404	104	135	11300	4310
5	78	593	125	98	439	116	73	3500	690
6	81	521	114	87	630	148	99	4080	2260
7	94	449	114	85	822	189	335	39800	38600
8	95	492	126	80	818	177	266	10000	9280
9	95	535	137	75	814	165	99	2500	668
10	94	494	125	79	810	173	83	1480	332
11	104	454	127	78	674	142	72	1130	220
12	125	498	168	85	537	123	72	772	150
13	113	541	165	77	504	105	76	730	150
14	127	522	179	72	471	92	71	689	132
15	101	503	137	68	438	80	71	2230	427
16	97	468	123	62	480	80	143	3770	1460
17	96	432	112	56	521	79	62	1390	233
18	99	473	126	56	414	63	63	1050	179
19	106	514	147	61	306	50	63	707	120
20	110	456	135	77	454	94	66	782	139
21	96	399	103	67	602	109	71	856	164
22	92	398	99	70	750	142	929	75700	1040000
23	89	398	96	62	898	150	794	200000	526000
24	95	472	121	58	360	56	167	34000	15300
25	89	546	131	62	347	58	101	4810	1310
26	86	514	119	57	492	76	90	4810	1170
27	88	482	115	58	465	73	68	3390	622
28	81	523	114	58	438	69	66	2630	469
29	92	564	140	57	411	63	60	2720	441
30	98	570	151	61	401	66	68	2810	516
31	--	--	--	64	391	63	--	--	--
TOTAL	2810	--	3663	2242	--	3265	4505	--	1645677

VIRGIN RIVER BASIN

09408150 VIRGIN RIVER NEAR HURRICANE, UTAH--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	58	1930	302	41	859	95	51	2620	361
2	56	1860	281	46	1000	124	40	2080	337
3	52	1790	251	45	1140	139	76	2800	579
4	49	1630	216	43	748	87	79	2500	533
5	49	1460	193	41	596	66	112	4110	2330
6	50	1260	170	46	880	109	82	9800	2170
7	43	1500	174	42	1170	133	89	7000	1680
8	41	1450	161	43	1180	137	70	3250	614
9	45	1310	159	44	1010	120	70	2330	440
10	46	1170	145	46	840	104	77	3600	748
11	47	1350	171	49	719	95	74	4850	969
12	45	1390	169	46	687	85	68	2290	420
13	45	1650	200	317	49500	54300	71	2200	422
14	47	959	122	322	33000	65800	73	2060	406
15	47	1110	141	166	20000	8960	91	1930	474
16	44	1250	149	65	6900	1210	79	2260	482
17	45	1400	170	54	3680	537	75	2500	506
18	47	1000	127	49	3200	423	232	6000	3760
19	45	959	117	125	37000	12500	4340	127000	1930000
20	45	876	106	59	16000	2550	484	26000	34000
21	46	1240	154	51	4800	661	198	3010	1610
22	44	1530	182	49	2990	395	171	2670	1230
23	45	1810	220	51	2510	346	161	2230	969
24	45	1500	182	55	3430	509	148	1900	759
25	44	1180	140	141	16200	40600	136	1570	577
26	47	1390	176	275	35000	26000	112	1430	432
27	44	731	87	493	70700	121000	89	965	232
28	49	1250	165	167	28300	18500	85	1200	275
29	45	1650	200	69	9640	1800	77	921	191
30	41	1460	162	62	4490	752	77	1120	233
31	43	1280	149	58	3130	490	--	--	--
TOTAL	1439	--	5341	3160	--	358628	7607	--	1987739
TOTAL DISCHARGE FOR YEAR (CFS-DAYS)									58458
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)									4648791

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	DISTANCE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUSPENDED SEDIMENT DIAM. * FINEST * FINEST * FINEST	SUSPENDED SEDIMENT DIAM. * FINEST * FINEST * FINEST
OCT.							
21...	1105	12.0	100	3020	851	4	5
24...	1325	12.0	2590	75500	285000	20	21
25...	0905	9.0	794	13400	28700	19	25
NOV.							
23...	0855	7.0	159	1440	618	5	6
DEC.							
25...	0905	8.0	3870	25000	261000	7	10
25...	1620	9.0	2540	23400	160000	25	27
JAN.							
05...	1150	3.0	120	764	248	3	7
APR.							
17...	1030	7.0	55	379	85	6	12
JUNE							
04...	0835	18.0	59	12800	3080	46	57
22...	2000	16.0	6770	204000	3730000	24	28
23...	0615	15.0	1070	248000	130000	30	34
23...	1540	17.0	474	208000	265000	41	45
JULY							
06...	0900	21.0	52	1390	195	11	15
AUG.							
13...	0840	19.0	325	69000	60700	40	41
14...	1810	18.0	1300	130000	436000	21	26
27...	0620	15.0	1280	98900	42000	17	20
28...	0650	15.0	200	33200	17900	40	43
SEP.							
11...	1040	17.5	72	4540	902	50	55
19...	0715	15.0	5180	116000	1730000	19	23
19...	1600	15.0	8950	210000	5070000	25	27
20...	0800	--	655	52200	92300	45	56

VIRGIN RIVER BASIN

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09408150 VIRGIN RIVER NEAR HURRICANE, UTAH--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
OCT.						
21...	8	18	63	94	100	--
24...	41	71	93	100	--	--
25...	40	62	84	99	100	--
NOV.						
23...	9	15	50	93	100	--
DEC.						
25...	15	29	70	97	100	--
25...	39	62	86	99	100	--
JAN.						
05...	--	24	41	89	100	--
APR.						
17...	--	41	59	92	100	--
JUNE						
04...	86	96	98	100	--	--
22...	37	66	87	98	100	--
23...	45	70	85	97	100	--
23...	59	85	95	100	--	--
JULY						
06...	31	52	84	97	100	--
AUG.						
13...	66	95	98	100	--	--
14...	42	75	94	100	--	--
27...	32	70	95	100	--	--
28...	61	81	95	99	100	--
SEP.						
11...	62	72	92	99	100	--
19...	40	66	88	99	100	--
19...	36	56	83	97	100	--
20...	75	91	97	99	100	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
OCT.							
21...	1105	12.0	108	1	21	64	90
NOV.							
23...	0855	7.0	159	--	2	42	88
JAN.							
05...	1150	3.0	120	--	2	38	84
APR.							
17...	1030	7.0	86	--	1	31	89
JULY							
06...	0900	21.0	52	--	3	48	90
SEP.							
11...	1040	17.5	72	--	15	63	93

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
OCT.						
21...	96	96	97	98	100	--
NOV.						
23...	98	99	100	--	--	--
JAN.						
05...	90	92	96	98	100	--
APR.						
17...	94	97	99	100	--	--
JULY						
06...	94	95	96	97	98	100
SEP.						
11...	95	96	96	97	98	100

VIRGIN RIVER BASIN

09415000 VIRGIN RIVER AT LITTLEFIELD, ARIZ.
(Irrigation network station)

LOCATION.--Lat 36°53', long 113°56', in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.4, T.40 N., R.15 W., Mohave County, at gaging station 0.4 mile downstream from Beaver Dam Wash, 0.4 mile upstream from Littlefield, and 36 miles upstream from waterline of Lake Mead at elevation 1,221 ft above mean sea level.

DRAINAGE AREA.--5,090 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: July 1949 to September 1972.

Water temperatures: October 1947 to September 1972.

Sediment records: October 1947 to September 1968.

EXTREMES.--1971-72:

Specific conductance: Maximum daily, 3,600 micromhos June 7; minimum daily, 1,260 micromhos Dec. 26.

Water temperatures: Maximum, 30.0°C on several days during July; minimum, 4.0°C Jan. 4.

Period of record:

Specific conductance: Maximum daily, 4,650 micromhos Aug. 21, 1966; minimum daily, 689 micromhos May 14, 15, 1969.

Water temperatures: Maximum, 33.5°C July 7, 1953; minimum, 2.0°C Jan. 4, 1949, Jan. 4, 1950, Jan. 4, 5, 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (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 (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT. 18...	1310	14.5	273	13	330	53	200	17	257	0	930	250
NOV. 23...	1500	15.0	196	20	270	78	250	3.3	316	0	790	350
JAN. 06...	0900	6.0	202	--	290	83	240	5.2	355	0	800	340
FEB. 09...	1000	11.0	152	--	240	78	240	20	325	0	730	360
MAR. 16...	0930	16.0	56	--	330	100	260	28	351	0	960	360
APR. 18...	0930	17.0	76	21	360	100	280	28	327	0	1100	390
MAY 25...	1230	25.0	63	20	390	120	270	31	324	0	1200	390
JULY 11-13	--	--	80	21	280	120	270	19	63	0	1200	390
SEP. 12...	0900	18.5	64	21	360	110	260	28	336	0	1100	360

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO ₄) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)
OCT. 18...	.6	.56	.09	550	1920	2.61	1420	1000	830	2.7	2630	7.2
NOV. 23...	.7	.70	.06	720	1920	2.61	1020	990	740	3.4	2770	7.6
JAN. 06...	--	.69	.00	--	1940	2.64	1060	1100	770	3.2	2850	7.6
FEB. 09...	--	.55	.06	--	1830	2.49	751	920	650	3.4	2730	7.9
MAR. 16...	--	.45	.03	--	2210	3.01	334	1200	950	3.2	3050	7.5
APR. 18...	1.0	.55	.00	1000	2440	3.32	506	1300	1000	3.4	3260	7.4
MAY 25...	1.1	.20	.03	1100	2580	3.51	444	1500	1200	3.1	3350	7.2
JULY 11-13	1.0	.16	.06	1100	2330	3.17	503	1200	1100	3.4	3070	8.0
SEP. 12...	1.3	.27	.03	1000	2410	3.28	418	1400	1100	3.1	3260	7.5

DATE	DIS- SOLVED OXYGEN (MG/L)
NOV. 23...	8.4
JAN. 06...	12.1
FEB. 09...	10.2
MAR. 16...	8.6
APR. 18...	9.5
MAY 25...	8.2

VIRGIN RIVER BASIN

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09415000 VIRGIN RIVER AT LITTLEFIELD, ARIZ.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2950	2600	2850	2550	2800	2700	---	3350	3310	3200	---	---
2	3250	2700	2980	2610	2800	2700	3250	3100	3350	3250	---	---
3	3050	2850	2900	2550	2800	2950	3350	3200	3310	3200	---	---
4	3150	2720	3000	2600	2800	2900	3250	3250	3270	3200	---	---
5	3100	2800	2980	2800	2800	2800	3120	3320	3300	3200	---	---
6	3170	2900	3000	2850	2620	2800	3150	3240	3340	3150	---	---
7	3100	2900	3100	2700	2650	2900	3250	3200	3600	3150	---	---
8	3250	2850	3000	2630	2700	2800	3190	3230	3310	3250	---	---
9	3300	2900	2950	2610	2620	3100	3180	3250	3100	3210	---	---
10	3100	3000	2950	2650	2700	3000	3200	3200	3180	3300	---	---
11	3300	3000	2900	2700	2620	3080	3100	3210	3010	3250	---	---
12	3250	3000	2900	2700	2620	3000	3200	3240	3120	3250	---	3260
13	3250	3000	2750	2690	2720	3150	3100	3210	3110	3250	---	---
14	3150	2880	2810	2690	2680	3200	3290	3390	3050	3300	---	---
15	3400	2920	2820	2700	2620	3250	3280	3310	3120	3300	---	---
16	3250	2500	2820	2650	2710	3250	3280	3300	---	3220	---	---
17	2800	2550	2900	2650	2790	3300	3150	3400	3120	3250	---	---
18	2680	2800	2900	2700	2700	3080	3250	3300	3200	3150	---	---
19	2820	2700	2810	2700	2650	3100	3300	3100	3210	3200	---	---
20	2980	2800	2710	2610	2700	3200	3390	3350	3200	3200	---	---
21	3050	2780	2750	2600	2590	3290	3350	3350	3100	3250	---	---
22	3020	2700	2700	2600	2590	3250	3280	3210	3100	3300	---	---
23	2900	2650	2690	2630	2610	3200	3310	3310	2850	3150	---	---
24	2900	2700	1900	2680	2600	3200	3310	3310	3230	3250	---	---
25	2950	2810	1480	2680	2620	3200	3250	3330	3420	3200	---	---
26	3000	2800	1260	2680	2670	3200	3350	3310	3400	3200	---	---
27	3050	2710	1390	2700	2700	3050	3300	3300	3390	3200	---	---
28	3080	2890	1950	2700	2700	3150	3200	3250	3120	3200	---	---
29	2950	2820	2020	2700	2700	3150	3200	3310	3210	3300	---	---
30	2800	2980	2250	2790	---	3110	3300	3250	3090	---	---	---
31	2800	---	2500	2750	---	3110	---	3300	---	3300	---	---
MONTH	3060	2810	2610	2670	2690	3070	3250	3270	3210	3230	---	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.0	12.0	12.0	9.0	8.0	15.0	---	23.0	23.0	25.0	---	---
2	21.0	12.0	11.0	9.0	8.0	16.0	23.0	24.0	24.0	27.0	---	---
3	21.0	14.0	12.0	5.0	8.0	20.0	23.0	26.0	21.0	25.0	---	---
4	21.0	15.0	11.0	4.0	8.0	20.0	20.0	24.0	25.0	25.0	---	---
5	21.0	15.0	11.0	5.0	11.0	20.0	19.0	23.0	22.0	25.0	---	---
6	22.0	12.0	12.0	8.0	12.0	20.0	22.0	23.0	23.0	25.0	---	---
7	21.0	15.0	10.0	8.0	12.0	20.0	25.0	22.0	23.0	25.0	---	---
8	22.0	15.0	10.0	10.0	13.0	20.0	25.0	23.0	24.0	30.0	---	---
9	22.0	15.0	10.0	9.0	14.0	20.0	25.0	22.0	23.0	30.0	---	---
10	23.0	15.0	8.0	10.0	11.0	20.0	19.0	20.0	23.0	30.0	---	---
11	21.0	15.0	9.0	11.0	12.0	19.0	18.0	25.0	26.0	30.0	---	---
12	22.0	15.0	8.0	10.0	12.0	20.0	18.0	25.0	26.0	30.0	---	18.5
13	22.0	14.0	9.0	11.0	14.0	20.0	13.0	21.0	26.0	28.0	---	---
14	23.0	12.0	8.0	11.0	14.0	19.0	19.0	25.0	26.0	30.0	---	---
15	18.0	11.0	8.0	11.0	14.0	20.0	21.0	25.0	26.0	30.0	---	---
16	15.0	12.0	8.0	11.0	15.0	20.0	21.0	22.0	---	22.0	---	---
17	11.0	10.0	8.0	11.0	15.0	15.0	19.0	21.0	29.0	30.0	---	---
18	14.0	9.0	10.0	11.0	16.0	15.0	17.0	20.0	31.0	25.0	---	---
19	15.0	10.0	9.0	11.0	16.0	21.0	20.0	21.0	25.0	25.0	---	---
20	16.0	11.0	10.0	12.0	16.0	21.0	22.0	19.0	25.0	25.0	---	---
21	18.0	12.0	9.0	12.0	16.0	22.0	22.0	20.0	25.0	24.0	---	---
22	17.0	12.0	10.0	12.0	16.0	22.0	23.0	21.0	26.0	23.0	---	---
23	16.0	12.0	12.0	12.0	15.0	20.0	22.0	21.0	22.0	25.0	---	---
24	16.0	13.0	11.0	10.0	14.0	20.0	20.0	23.0	20.0	25.0	---	---
25	15.0	13.0	10.0	9.0	15.0	22.0	21.0	23.0	25.0	25.0	---	---
26	15.0	12.0	10.0	10.0	16.0	18.0	22.0	24.0	23.0	26.0	---	---
27	15.0	12.0	8.0	10.0	16.0	14.0	23.0	24.0	23.0	27.0	---	---
28	12.0	12.0	9.0	11.0	17.0	15.0	22.0	23.0	27.0	28.0	---	---
29	10.0	13.0	9.0	11.0	15.0	17.0	22.0	27.0	28.0	28.0	---	---
30	10.0	12.0	10.0	9.0	---	18.0	22.0	28.0	27.0	---	---	---
31	11.0	---	9.0	9.0	---	20.0	---	25.0	---	27.0	---	---
MONTH	17.5	12.5	9.5	9.5	13.5	19.0	21.0	23.0	24.5	26.5	---	---

BEAR RIVER BASIN

10039500 BEAR RIVER AT BORDER, WYO.

LOCATION.--Lat 42°12'40", long 111°03'00", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.15, T.14 S., R.6 E., Bear Lake County, Idaho, at gaging station, 0.2 mile west of Wyoming-Idaho State line, 0.5 mile west of Border, and 2.1 miles upstream from Thomas Fork.

DRAINAGE AREA.--2,490 sq mi, approximately.

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

Water temperatures: October 1965 to September 1972.

EXTREMES.--1971-72:

Specific conductance: Maximum daily, 686 micromhos Mar. 25; minimum daily, 388 micromhos Mar. 8.

Water temperatures: Maximum, 23.0°C Aug. 9; minimum, freezing point Jan. 10.

Period of record:

Specific conductance: Maximum daily, 883 micromhos July 21, 1966; minimum daily, 312 micromhos Apr. 3, 1969.

Water temperatures: Maximum, 23.0°C Aug. 7, 1970, Aug. 9, 1972; minimum, freezing point on many days during winter period each year.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HC03) (MG/L)	CAR- BONATE (C03) (MG/L)	DIS- SOLVED SULFATE (S04) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT.												
01...	0800	6.5	314	5.4	66	21	20	1.6	250	0	58	21
NOV.												
09...	0910	.0	290	7.7	68	26	22	2.2	274	0	69	23
11...	1515	.0	414	7.9	69	24	22	1.8	269	0	71	23
DEC.												
02...	1130	.0	260	6.3	68	28	24	1.6	268	0	67	27
JAN.												
18...	0745	.0	265	8.0	66	25	20	2.0	270	0	58	20
FEB.												
25...	1450	.0	316	--	63	21	16	2.2	249	0	50	17
MAR.												
07...	1310	.0	710	7.8	50	15	19	3.7	198	0	35	20
APR.												
08...	1245	7.5	996	9.0	64	23	30	2.3	253	0	68	23
MAY												
20...	0815	10.0	2250	7.4	57	18	13	2.3	231	0	38	11
31...	1830	16.0	1700	8.0	52	17	13	1.6	229	0	31	12
JUNE												
13...	0820	16.0	3420	12	58	21	34	3.7	259	0	49	30
JULY												
11...	1155	17.0	828	8.9	53	27	25	1.9	273	0	44	22
AUG.												
09...	1740	21.5	283	8.6	60	28	25	1.9	265	0	59	25
SEP.												
12...	1520	15.0	263	7.6	64	22	24	1.9	247	0	67	20

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (P04) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SULFUR (IONS 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)
OCT.												
01...	.2	--	--	60	316	.45	280	250	45	.5	541	8.2
NOV.												
09...	.2	--	--	60	354	.49	283	280	55	.6	573	8.2
11...	.1	.10	.12	50	352	.48	393	270	50	.6	594	8.2
DEC.												
02...	.3	--	--	30	354	.45	234	280	60	.6	594	8.0
JAN.												
18...	.2	--	--	50	333	.47	248	270	49	.5	581	7.9
FEB.												
25...	--	.17	.00	--	293	.40	250	240	40	.4	505	7.9
MAR.												
07...	.2	--	--	30	250	.36	502	180	18	.6	443	7.7
APR.												
08...	.2	--	--	70	344	.48	941	250	42	.8	588	8.2
MAY												
20...	.2	--	--	40	260	.36	1620	210	21	.4	448	8.2
31...	.2	.04	.03	60	248	.34	1140	200	12	.4	439	7.7
JUNE												
13...	.3	--	--	90	336	.47	3210	230	18	1.0	568	7.8
JULY												
11...	.2	--	--	70	316	.45	733	240	16	.7	557	8.2
AUG.												
09...	.2	--	--	70	338	.46	257	260	43	.7	568	8.1
SEP.												
12...	.2	--	--	50	328	.45	236	250	47	.7	560	8.2

DATE	DIS- SOLVED OXYGEN (MG/L)
FEB.	
25...	10.5
MAY	
31...	8.6

BEAR RIVER BASIN

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10039500 BEAR RIVER AT BORDER, WYO.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	539	585	587	560	563	536	648	541	417	559	576	539
2	532	590	614	556	563	515	632	540	412	555	573	539
3	533	583	582	547	569	491	636	532	418	553	586	547
4	531	584	575	562	566	506	627	520	448	557	572	523
5	530	592	637	579	577	484	615	498	487	556	566	505
6	547	579	567	584	566	484	603	491	510	565	568	504
7	549	576	555	550	546	448	578	482	514	549	563	501
8	542	604	---	569	548	388	579	474	516	556	564	519
9	549	575	619	558	549	407	579	480	541	556	568	579
10	550	574	620	560	547	425	586	484	534	550	570	536
11	541	584	620	564	547	429	548	478	547	553	570	540
12	555	573	620	564	546	450	550	480	561	546	567	549
13	556	579	618	564	541	482	568	483	557	536	568	543
14	553	571	620	570	536	527	595	474	563	531	564	555
15	554	573	624	575	540	579	610	462	561	546	559	567
16	563	566	614	582	534	608	646	466	549	532	563	569
17	543	559	601	575	532	622	627	449	519	548	553	553
18	542	566	602	---	536	651	659	465	519	573	552	545
19	552	571	608	---	526	663	664	439	510	576	570	536
20	553	581	626	---	517	676	647	435	511	597	568	523
21	563	565	615	---	517	682	661	439	511	617	565	529
22	564	581	586	---	513	681	659	432	537	608	576	538
23	562	590	594	---	506	675	672	442	536	589	576	537
24	573	591	578	---	504	681	676	465	550	588	558	544
25	572	583	579	---	508	686	643	463	550	594	580	543
26	550	601	565	546	513	671	625	462	569	587	583	532
27	550	569	570	535	513	663	616	466	577	574	581	532
28	552	577	606	540	512	654	590	472	580	573	575	529
29	562	572	605	549	510	661	558	440	570	578	575	528
30	560	569	579	557	---	648	536	436	556	578	534	536
31	562	---	560	560	---	650	---	432	---	579	592	---
MONTH	551	579	598	---	536	572	614	472	524	566	569	537

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

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

WEBER RIVER BASIN

10136500 WEBER RIVER AT GATEWAY, UTAH

LOCATION.--Lat 41°08'15", long 111°49'55", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.27, T.5 N., R.1 E., Morgan County, at gaging station, on left bank 400 ft downstream from tailrace of Gateway powerplant, 500 ft upstream from Union Pacific Railroad bridge, 1,200 ft downstream from Strawberry Creek, and 3,200 ft east of section house at Gateway.

DRAINAGE AREA.--1,610 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: May 1958 to September 1972.
Water temperatures: October 1958 to September 1959.

REMARKS.--Flow regulated by Rockport, Echo, and East Canyon Reservoirs.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NESIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
MAR. 30...	1415	4.5	1150	9.6	56	14	15	2.1	203	0	34	19
APR. 24...	1300	8.0	1730	9.7	56	13	13	1.9	202	0	27	16
JUNE 30...	0900	--	400	7.8	50	15	14	2.3	246	0	27	17
JULY 25...	--	16.0	500	10	62	14	13	2.1	234	0	28	17
AUG. 29...	--	15.0	270	9.1	63	15	15	2.6	213	0	28	21

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO ₄) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)
MAR. 30...	.3	.35	.00	50	251	.34	779	200	31	.5	427	8.0
APR. 24...	.2	.52	.06	100	239	.33	1120	190	28	.4	407	8.0
JUNE 30...	.4	--	--	90	255	.35	275	190	0	.4	473	7.7
JULY 25...	--	--	--	--	261	.36	352	210	21	.4	472	7.7
AUG. 29...	.2	.00	.03	50	259	.35	189	220	44	.4	441	7.7

10172200 RED BUTTE CREEK AT FORT DOUGLAS, NEAR SALT LAKE CITY, UTAH
(Hydrologic bench-mark, pesticide, and radiochemical station)

LOCATION.--Lat 40°46'48", long 111°48'19", in NW¼ sec.35, T.1 N., R.1 E., Salt Lake County, at gaging station 0.3 mile upstream from spillway of Red Butte Reservoir, 1.5 miles northeast of Fort Douglas, and 5 miles north-east of Salt Lake City.

DRAINAGE AREA.--7.25 sq mi.

PERIOD OF RECORD.--Chemical analyses: April 1964 to September 1966, August 1967 to September 1972.

Water temperatures: April 1964 to September 1972.

Sediment records: November 1969 to September 1972 (partial-record station).

EXTREMES.--1971-72:

Water temperatures: Maximum, 21.0°C July 31, Aug. 11, 12.

Period of record:

Water temperatures: Maximum (1964-66, 1967-72), 24.0°C July 29, 31, Aug. 1, 3, 4, 1969; minimum (1964-71), freezing point on many days during winter period of most years.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
NOV. 11...	1420	5.0	2.6	12	97	28	13	1.2	289	0	110	14
JAN. 07...	1430	.0	2.8	11	93	25	12	1.0	291	0	93	14
FEB. 15...	1220	2.0	2.2	11	94	25	11	1.2	298	0	100	14
MAR. 31...	1430	8.0	8.7	10	79	21	11	.9	255	0	60	16
JUNE 15...	1355	16.5	5.4	11	76	24	11	.8	264	0	69	11
22...	1618	16.0	4.9	12	67	24	11	.8	260	0	66	12
JULY 21...	1100	11.0	2.9	11	77	27	12	.8	284	0	82	11
AUG. 30...	1520	18.0	2.0	12	80	27	11	1.0	282	0	87	12
SEP. 07...	1000	10.5	2.2	12	83	27	12	1.2	300	0	88	13

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 BORON (B) (UG/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)
NOV. 11...	.1	.08	.12	20	418	.57	2.95	360	120	.3	661	7.9
JAN. 07...	.0	.03	.12	40	392	.53	2.98	330	96	.3	651	8.1
FEB. 15...	.0	.04	.06	30	403	.55	2.45	340	93	.3	647	8.2
MAR. 31...	.2	.00	.03	30	324	.44	7.67	280	75	.3	525	8.1
JUNE 15...	.2	.03	.03	40	333	.45	4.87	290	72	.3	547	7.9
22...	.2	.00	.00	--	321	.44	4.25	270	53	.3	553	7.9
JULY 21...	.2	.00	.00	30	361	.49	2.91	300	70	.3	587	7.6
AUG. 30...	.2	.00	.06	30	369	.50	2.00	310	80	.3	610	8.2
SEP. 07...	.2	.03	.09	40	384	.52	2.32	320	72	.3	650	8.0

SUSPENDED SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR 1970 TO SEPTEMBER 1971

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
NOV. 11...	1420	5.0	2.6	24	.17
JAN. 07...	1430	.0	2.8	9	.07
FEB. 25...	1215	3.5	3.8	9	.09
MAR. 31...	1430	8.0	8.8	10	.24
APR. 02...	--	--	11	565	17
JUNE 15...	1600	16.5	5.4	15	.22
JULY 20...	1430	16.5	3.0	25	.20
SEP. 07...	1545	15.0	2.2	9	.05

JORDAN RIVER BASIN

10172200 RED BUTTE CREEK AT FORT DOUGLAS, NEAR SALT LAKE CITY, UTAH--Continued

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

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

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

SEVIER LAKE BASIN

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10191500 SEVIER RIVER BELOW PIUTE DAM, NEAR MARYSVALE, UTAH
(Irrigation network station)

LOCATION.--Lat 38°19'55", long 112°11'15", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.34, T.28 S., R.3 W., Piute County, at gaging station 0.8 mile downstream from Piute Dam, and 8 miles south of Marysville.

DRAINAGE AREA.--2,440 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: March 1958 to September 1959, February 1961 to September 1972.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (NA) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
NOV. 02...	1015	5.0	95	14	44	23	36	5.0	267	0	55	17
DEC. 06...	1015	3.0	6.4	--	47	23	36	3.9	274	0	42	16
JAN. 18...	1015	4.0	6.1	--	50	22	31	4.9	294	0	31	13
FEB. 23...	1200	6.0	6.9	--	49	21	30	3.7	276	0	28	12
MAR. 27...	1100	6.0	42	--	46	21	27	4.0	274	0	30	13
APR. 26...	1420	9.0	392	22	47	21	26	5.3	268	0	28	10
MAY 22...	1030	7.0	363	22	46	22	28	4.3	264	7	31	12
JULY 07...	1100	20.0	593	22	45	23	29	4.9	266	0	32	13
AUG. 10...	1000	21.0	350	26	45	23	30	4.9	268	0	36	15
SEP. 20...	0915	8.0	33	31	49	22	36	4.5	271	0	53	19

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO ₄) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)
NOV. 02...	.5	.16	.06	110	327	.44	84.2	200	0	1.1	521	8.0
DEC. 06...	--	.13	.03	--	304	.41	5.25	210	0	1.1	539	8.0
JAN. 18...	--	.21	.03	--	298	.41	4.98	220	0	.9	526	7.8
FEB. 23...	--	.16	.00	--	280	.39	5.22	210	0	.9	487	8.2
MAR. 27...	--	.14	.03	--	277	.38	31.4	200	0	.8	483	7.6
APR. 26...	.4	.15	.00	80	292	.40	309	200	0	.8	467	8.2
MAY 22...	.4	.03	.00	60	303	.41	297	210	0	.9	497	8.4
JULY 07...	1.9	.13	.06	100	302	.41	484	210	0	.9	506	8.0
AUG. 10...	.5	.04	.06	100	313	.43	296	210	0	.9	502	8.2
SEP. 20...	.5	.46	.09	110	351	.48	32.0	210	0	1.1	538	8.2

10204200 MILL CREEK NEAR GLENWOOD, UTAH

LOCATION.--Lat 38°45'01", long 111°58'35", in NW $\frac{1}{4}$ sec.1, T.24 S., R.2 W., Sevier County, at gaging station 30 downstream from Mill Creek detention dam, and 1.5 miles southeast of Glenwood.

DRAINAGE AREA.--18.9 sq mi.

PERIOD OF RECORD.--Sediment records: May 1963 to September 1972.

REMARKS.--This station is operated in conjunction with a trap efficiency study of the Mill Creek detention reservoir. No flow during entire water year.

SEVIER LAKE BASIN

10224000 SEVIER RIVER NEAR LYNNDYL, UTAH
(Irrigation network station)LOCATION.--Lat 39°30', long 112°24', in SE $\frac{1}{4}$ sec.23, T.15 S., R.5 W., Millard County, at bridge on county road, 1.5 miles upstream from gaging station, and about 2 miles south of Lynndyl.

DRAINAGE AREA.--6,270 sq mi, approximately (at gaging station).

PERIOD OF RECORD.--Chemical analyses: March 1951 to September 1972.

Water temperatures: March 1951 to September 1972.

EXTREMES.--1971-72:

Specific conductance: Maximum daily, 4,450 micromhos Feb. 27, 28; minimum daily, 1,610 micromhos Feb. 21.

Water temperatures: Maximum, 23.0°C July 17-20; minimum, freezing point Dec. 21.

Period of record:

Specific conductance: Maximum daily, 8,300 micromhos Dec. 27, 1962; minimum daily, 431 micromhos Feb. 4, 1962.

Water temperatures: Maximum, 29.0°C July 21-23, 1956, Aug. 9, 10, 1963, Aug. 1, 1969; minimum, 1.0°C on many days during winter period each year.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (>102) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT. 20...	1200	12.5	61	13	74	77	230	5.5	306	0	270	310
NOV. 16...	0845	2.5	56	--	82	82	240	5.2	317	0	310	330
DEC. 20...	1550	.5	13	--	160	170	640	8.7	509	0	880	870
JAN. 24...	1000	1.0	14	--	140	140	590	11	428	0	770	790
FEB. 18...	1015	3.5	9.7	--	130	130	620	8.9	404	0	680	750
MAR. 28...	1450	11.5	33	17	86	84	270	5.9	295	0	340	390
APR. 25...	1250	13.0	362	18	75	83	310	7.8	333	0	340	390
MAY 18...	1200	11.5	344	18	72	82	310	8.1	331	0	380	390
JUNE 18...	0940	20.5	226	17	63	85	310	7.3	304	0	400	400
JUL. 21...	1300	22.0	444	18	75	85	320	7.2	310	0	370	380
AUG. 17...	1600	22.5	198	16	60	82	320	7.2	300	0	390	410
SEP. 19...	1420	18.0	27	15	63	76	250	5.6	283	0	300	350

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHOPHOS- PHATE (PO4) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (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)
OCT. 20...	.3	.37	.03	180	1130	1.54	189	500	250	4.5	1930	8.1
NOV. 16...	--	.40	.06	--	1210	1.65	183	540	280	4.5	2030	8.0
DEC. 20...	--	.81	.03	--	2100	2.86	73.7	1100	680	8.4	4590	7.9
JAN. 24...	--	.55	.06	--	2650	3.60	100	930	570	8.4	4190	8.0
FEB. 18...	--	.63	.03	--	2560	3.48	87.0	860	530	9.2	4010	7.7
MAR. 28...	.4	.29	.00	300	1340	1.82	120	760	320	5.0	2200	8.1
APR. 25...	.5	.59	.09	400	1390	1.89	1360	530	260	5.9	2270	8.2
MAY 18...	.8	.63	.03	440	1430	1.94	1330	520	250	5.9	2350	8.2
JUNE 18...	.5	.32	.03	430	1430	1.94	87.3	510	260	6.0	2380	8.3
JUL. 21...	.5	.54	.03	420	1410	1.92	1640	540	280	6.0	2350	8.2
AUG. 17...	.5	.30	.03	420	1440	1.95	170	490	240	6.3	2388	8.2
SEP. 19...	.4	.10	.05	330	1200	1.63	90.1	470	240	5.0	2070	8.2

SEVIER LAKE BASIN

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10224000 SEVIER RIVER NEAR LYNN DYK, UTAH--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2010	2000	3000	4000	3700	1900	2350	2400	2250	2360	---	3200
2	1990	2000	3500	4100	3600	1900	2360	2350	2290	2340	---	3200
3	2000	2050	4150	4200	3800	1950	2310	2350	2210	2360	---	3220
4	2000	2050	3800	4200	3850	1950	2280	2390	2200	2360	---	3010
5	2010	2050	4150	4200	3700	1930	2300	2390	2350	2400	---	3010
6	2000	2060	3750	4150	3750	1950	2350	2390	2300	2360	---	2350
7	2200	2100	3100	4200	3750	1930	2300	2360	2300	2380	---	2320
8	2240	2070	4100	4100	4050	1900	2350	2350	2350	2380	---	2350
9	2240	2000	3700	4200	4050	1900	2350	2360	2340	2410	---	2350
10	2250	2010	3300	4200	4100	1850	2260	2390	2300	2350	---	2350
11	1970	2270	3700	4200	4050	1890	2260	2390	2350	2440	---	2350
12	1950	2300	3700	4200	4000	1930	2270	2390	2350	2440	---	2350
13	1930	2270	3500	4200	4000	1860	2300	2390	2340	2440	---	2300
14	1910	2300	3250	4150	4000	1890	2150	2360	2340	2450	---	2250
15	1900	2300	2600	4200	4050	1940	2160	2350	2340	2410	---	2260
16	1800	2320	2350	4200	4000	2150	2160	2350	2330	2410	---	2250
17	1790	2320	3300	4200	4050	2150	2160	2350	2320	2380	2500	2240
18	1750	2260	3600	4200	4100	2150	2160	2350	2320	2380	2500	2250
19	1760	2360	3300	4200	4100	2170	2150	2300	2320	2380	1750	2500
20	2040	2260	2800	4150	1930	2150	2150	2310	2330	2380	1750	2500
21	2160	2260	2900	4200	1610	2150	2150	2310	2330	2380	2500	2480
22	2160	2290	3450	4200	1950	2150	2300	2260	2310	2360	2500	2500
23	2160	2260	4000	4200	1950	2140	2250	2310	2320	2350	2600	2500
24	2060	3850	3150	4150	1900	2400	2290	2260	2320	2380	2600	2500
25	2050	3900	3300	4150	4250	2400	2200	2260	2320	2380	2550	1880
26	2000	3900	3000	4400	4400	2420	2300	2260	2320	2360	2500	1880
27	2050	3900	3600	4400	4450	2400	2280	2250	2310	2360	2490	1880
28	2060	3850	4000	4400	4450	2420	2300	2250	2320	2370	2500	1880
29	2040	3850	3100	4400	2000	2400	2300	2250	2320	---	2500	1870
30	2050	3850	3100	4400	---	2410	2300	2260	2300	---	2500	1870
31	2050	---	3750	4400	---	2400	---	2270	---	---	2520	---
MONTH	2020	2580	3430	4220	3580	2100	2260	2330	2310	2380	---	2400

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

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

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (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- PHOS- PHORUS (P) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
COLORADO RIVER BASIN												
DIRTY DEVIL RIVER BASIN												
09333500 DIRTY DEVIL RIVER NEAR HITE, UTAH (LAT 38°05'50", LONG 110°24'27")												
OCT. 22...	1500	12.5	40	22	260	43	110	7.7	156	0	800	87
JAN. 12...	1230	1.0	108	--	180	43	140	5.8	203	0	550	130
APR. 11...	1230	17.5	20	25	220	70	230	8.9	170	0	840	200
ESCALANTE RIVER BASIN												
09337500 ESCALANTE RIVER NEAR ESCALANTE, UTAH (LAT 37°46'00", LONG 111°34'00")												
DEC. 03...	0830	1.5	20	--	79	31	65	3.4	205	0	180	73
JUNE 06...	1500	26.0	10	12	57	22	38	4.6	150	0	120	49
VIRGIN RIVER BASIN												
09413500 VIRGIN RIVER NEAR ST. GEORGE, UTAH (LAT 37°01'00", LONG 113°40'00")												
OCT. 18...	1730	14.5	192	12	420	49	200	18	225	0	1200	260
MAR. 15...	1545	23.5	75	--	190	63	290	22	285	0	610	360
SEP. 11...	1500	28.5	20	20	340	93	480	34	241	0	1200	660
THE GREAT BASIN												
BEAR RIVER BASIN												
10011500 BEAR RIVER NEAR UTAH-WYOMING STATE LINE (LAT 40°57'58", LONG 110°51'04")												
NOV. 09...	1400	4.0	110	6.5	46	11	2.8	.9	191	0	.0	2.8
MAY 30...	1900	12.0	1360	4.2	32	7.5	1.4	.4	139	0	4.0	2.9
10020300 BEAR RIVER BELOW RESERVOIR, NEAR WOODRUFF, UTAH (LAT 41°30'20", LONG 111°00'50")												
NOV. 09...	1700	3.5	30	2.2	45	18	16	2.3	225	0	20	16
MAY 30...	1145	13.0	1270	6.1	35	13	7.6	1.4	163	0	13	8.1
10026500 BEAR RIVER NEAR RANDOLPH, UTAH (LAT 41°48'02", LONG 111°04'20")												
NOV. 10...	1430	.0	112	7.5	57	27	26	2.2	317	0	26	29
MAY 31...	1150	16.0	827	9.9	44	24	22	2.6	246	0	27	22
AUG. 11...	1230	21.5	76	9.2	61	29	32	2.4	323	0	46	36
10041000 THOMAS FORK NEAR WYOMING-IDAHO STATE LINE (LAT 42°24'10", LONG 111°01'30")												
NOV. 11...	1650	.0	31	10	71	18	160	1.6	249	0	70	240
MAY 31...	2045	15.0	301	7.4	62	15	36	1.1	249	0	25	47
10090450 WEST CACHE CANAL AT CORNISH, UTAH (LAT 41°59'10", LONG 111°57'14")												
NOV. 04...	1315	4.5	16	22	69	33	80	8.8	349	0	57	99
JUNE 02...	1050	16.5	140	11	68	25	37	4.2	280	0	41	50
10092700 BEAR RIVER AT CORNISH, UTAH (LAT 41°58'32", LONG 111°57'11")												
NOV. 04...	1130	3.5	1020	13	56	44	49	6.8	356	0	74	59
FEB. 28...	1515	3.0	533	--	63	45	62	8.4	380	0	64	79
JUNE 02...	0945	15.5	2190	9.9	53	22	26	4.3	271	0	34	31
AUG. 03...	1530	22.4	1100	12	60	39	54	7.6	357	0	58	66

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

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CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (P04) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS 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- MHUS)	PH (UNITS)
COLORADO RIVER BASIN--Continued												
DIRTY DEVIL RIVER BASIN--Continued												
09333500 DIRTY DEVIL RIVER NEAR HITE, UTAH--Continued												
OCT. 22...	.5	.16	.03	140	1410	1.92	155	830	700	1.7	1820	7.6
JAN. 12...	--	.89	.00	--	1150	1.56	335	630	460	2.4	1620	7.9
APR. 11...	.3	.01	.03	170	1680	2.28	93.4	840	700	3.5	2260	8.1
ESCALANTE RIVER BASIN--Continued												
09337500 ESCALANTE RIVER, NEAR ESCALANTE, UTAH--Continued												
DEC. 03...	--	.22	.00	--	533	.72	28.4	320	160	1.6	915	8.1
JUNE 06...	.4	.02	.00	60	377	.51	10.2	230	110	1.1	625	7.4
VIRGIN RIVER BASIN--Continued												
09413500 VIRGIN RIVER NEAR ST. GEORGE, UTAH--Continued												
OCT. 18...	.5	.75	.09	430	2270	3.09	1180	1300	1100	2.5	2870	7.3
MAR. 15...	--	.71	.15	--	1680	2.28	340	730	500	4.7	2530	7.9
SEP. 11...	.8	1.0	.09	1100	2950	4.01	159	1200	1000	6.0	4350	7.9
THE GREAT BASIN--Continued												
BEAR RIVER BASIN--Continued												
1011500 BEAR RIVER NEAR UTAH-WYOMING STATE LINE--Continued												
NOV. 09...	.0	.27	.15	10	165	.22	49.0	160	3	.1	299	8.2
MAY 30...	.1	.73	.03	30	124	.17	455	110	0	.1	237	7.7
10020300 BEAR RIVER BELOW RESERVOIR, NEAR WOODRUFF, UTAH--Continued												
NOV. 09...	.2	.05	.09	60	231	.31	18.7	190	2	.5	419	8.3
MAY 30...	.2	.12	.03	60	165	.22	566	140	7	.3	305	7.6
10026500 BEAR RIVER NEAR RANDOLPH, UTAH--Continued												
NOV. 10...	.1	.19	.15	70	332	.45	100	250	0	.7	624	7.9
MAY 31...	.3	.03	.03	100	273	.37	610	210	7	.7	490	7.7
AUG. 11...	.3	.00	.00	80	375	.51	77.0	270	7	.8	658	8.1
10041000 THOMAS FORK NEAR WYOMING-IDAHO STATE LINE--Continued												
NOV. 11...	.1	.08	.18	40	694	.94	58.1	250	47	4.4	1250	8.0
MAY 31...	.2	.02	.09	50	316	.43	257	220	12	1.1	564	7.9
10090450 WEST CACHE CANAL AT CORNISH, UTAH--Continued												
NOV. 04...	.4	1.8	.09	120	549	.75	23.7	310	22	2.0	929	7.9
JUNE 02...	.3	.21	.06	90	375	.51	142	270	43	1.0	660	7.6
10092700 BEAR RIVER AR CORNISH, UTAH--Continued												
NOV. 04...	.4	.40	.12	90	479	.65	1320	320	29	1.2	813	8.0
FEB. 28...	--	.64	.06	--	511	.69	735	340	31	1.5	872	8.1
JUNE 02...	.3	.12	.03	90	314	.43	1860	220	1	.8	566	7.7
AUG. 03...	.3	.09	.00	120	473	.64	1410	310	18	1.3	805	8.3

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (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)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
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THE GREAT BASIN--Continued

BEAR RIVER BASIN--Continued

10098000 CUB RIVER AT FRANKLIN, IDAHO (LAT 42°00'50", LONG 111°49'10")

NOV. 04...	1000	1.5	38	14	55	17	11	2.5	260	0	7.8	8.0
FEB. 28...	1615	5.0	47	--	50	16	14	3.1	214	0	12	10
JUNE 02...	1300	9.5	470	5.9	45	8.4	2.7	.7	160	0	3.9	2.0

10126100 BEAR RIVER AT MIGRATORY BIRD REFUGE, NEAR BRIGHAM CITY, UTAH (LAT 41°48'49", LONG 112°15'50")

NOV. 03...	1330	4.0	1600	13	59	40	76	8.4	343	0	63	110
FEB. 28...	1130	4.0	1380	--	63	43	100	10	369	0	67	150
JUNE 01...	1300	20.0	1760	8.1	57	22	49	5.2	258	0	27	72
AUG. 03...	1855	24.2	900	11	53	35	120	10	306	0	53	190

DIS-
SOLVED
OXYGEN
(MG/L)

DATE

10011500 BEAR RIVER NEAR UTAH-WYOMING STATE LINE--Continued

MAY
30... 8.5

10020300 BEAR RIVER BELOW RESERVOIR, NEAR WOODRUFF, UTAH--Continued

MAY
30... 9.2

10026500 BEAR RIVER NEAR RANDOLPH, UTAH--Continued

MAY
31... 8.5
AUG.
11... 8.5

10041000 THOMAS FORK NEAR WYOMING-IDAHO STATE LINE--Continued

MAY
31... 8.3

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

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CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TIONS PER AC-FT)	DIS-SOLVED SOLIDS (TIONS PER DAY)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM AU-SORPTION RATIO	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)
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THE GREAT BASIN--Continued

 BEAR RIVER BASIN--Continued
 10098000 CUB RIVER AT FRANKLIN, IDAHO--Continued

NOV. 04...	.2	.51	.15	20	246	.33	25.2	210	0	.3	424	7.8
FEB. 28...	--	.88	.09	--	214	.29	27.2	190	15	.4	419	8.2
JUNE 02...	.3	.24	.03	30	149	.20	18.9	150	16	.1	259	8.0

10126100 BEAR RIVER AT MIGRATORY BIRD REFUGE, NEAR BRIGHAM CITY, UTAH--Continued

NOV. 03...	.4	.54	.15	100	541	.74	2340	310	31	1.9	938	8.0
FEB. 28...	--	.84	.12	--	619	.84	2310	330	32	2.4	1090	8.2
JUNE 01...	.3	.07	.03	90	368	.50	1750	230	21	1.4	666	7.9
AUG. 03...	.3	.00	.03	140	623	.85	1510	280	25	3.1	1102	8.3

10090450 WEST CACHE CANAL AT CORNISH, UTAH--Continued

 JUNE
 02... 7.6

10092700 BEAR RIVER AT CORNISH, UTAH--Continued

 FEB.
 28... 11.7
 JUNE
 02... 7.4
 SEP.
 06... 7.9

10098000 CUB RIVER AT FRANKLIN, IDAHO--Continued

 FEB.
 28... 12.0
 JUNE
 02... 9.8

10126100 BEAR RIVER AT MIGRATORY BIRD REFUGE, NEAR BRIGHAM CITY, UTAH--Continued

 FEB.
 28... 12.1
 JUNE
 01... 8.3
 SEP.
 06... 9.6

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (NA) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
THE GREAT BASIN--Continued												
WEBER RIVER BASIN												
10141050 SOUTH FORK WEBER CANAL NEAR HOOPER, UTAH (LAT 41°16'42", LONG 112°05'28")												
JUNE 01...	1245	21.0	21	10	54	19	47	7.8	256	0	34	55
JULY 10...	1455	24.1	34	10	56	27	73	13	328	0	49	79
10141100 SOUTH FORK WEBER RIVER NEAR HOOPER, UTAH (LAT 41°10'56", LONG 112°10'10")												
JAN. 27...	1735	3.5	560	11	70	7.9	55	8.4	286	0	37	55
FEB. 11...	1645	3.0	461	9.7	60	20	40	5.9	270	1	37	58
MAR. 06...	1530	7.5	1190	11	46	13	22	4.1	197	0	25	42
APR. 21...	1210	8.5	1390	9.1	43	12	22	3.1	182	0	24	30
JUNE 01...	1105	20.5	64	10	54	20	49	8.8	262	0	37	56
JULY 10...	1230	22.5	70	9.2	59	27	86	13	337	0	50	97
AUG. 17...	1305	21.6	56	13	60	24	53	10	302	0	43	60
10141150 MIDDLE FORK WEBER RIVER NEAR HOOPER, UTAH (LAT 41°12'48", LONG 112°09'36")												
JAN. 27...	1715	3.0	17	10	42	18	32	5.4	195	0	31	42
MAR. 07...	1545	7.5	83	11	46	12	15	3.2	188	0	21	22
APR. 24...	1040	9.5	92	8.9	45	12	13	2.2	178	0	24	18
MAY 30...	1530	18.2	52	9.4	51	15	32	4.4	223	0	27	43
JULY 14...	1535	28.0	79	7.5	59	20	60	7.5	285	0	34	76
AUG. 17...	1015	20.1	28	12	61	22	48	8.9	290	0	38	57
22...	1520	23.7	71	12	66	21	54	7.9	302	0	23	70
10141200 NORTH FORK WEBER RIVER NEAR HOOPER, UTAH (LAT 41°13'18", LONG 112°10'48")												
JAN. 27...	1600	3.5	180	10	66	20	48	6.1	271	0	34	59
FEB. 11...	1120	3.0	125	9.4	66	19	38	5.3	277	0	34	62
MAR. 06...	1230	6.5	600	11	46	13	19	3.5	189	0	26	56
APR. 21...	1310	8.8	837	8.8	43	11	14	2.3	177	0	22	20
MAY 30...	1205	17.5	94	9.4	54	16	35	4.4	224	0	28	46
AUG. 22...	1010	22.1	1.4	8.1	53	25	69	10	271	27	36	80
TRIBUTARIES BETWEEN WEBER AND JORDAN RIVERS												
10141400 HOWARD SLOUGH AT HOOPER, UTAH (LAT 41°08'25", LONG 112°07'17")												
JAN. 27...	1440	2.0	36	19	62	42	120	17	423	9	80	78
FEB. 16...	1045	2.0	25	20	61	46	160	20	557	0	87	130
MAR. 14...	1340	10.5	21	17	54	35	84	12	382	11	71	66
APR. 26...	0915	6.0	29	14	54	30	58	10	328	0	51	48
JUNE 01...	1405	23.5	28	16	48	27	65	12	331	0	50	50
JULY 10...	1615	27.0	20	15	52	29	62	13	348	0	51	48
AUG. 17...	1425	24.0	13	23	58	35	78	15	402	0	68	57
SEP. 14...	1200	10.0	26	17	59	34	71	14	350	0	110	51

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

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CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO-PHOSPHATE (PO4) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED SOLIDS (SUM OF TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)
THE GREAT BASIN--Continued												
WEBER RIVER BASIN												
10141050 SOUTH FORK WEBER CANAL NEAR HOOPER, UTAH--Continued												
JUNE 01...	.3	.66	1.3	70	357	.49	20.3	210	3	1.4	649	7.0
JULY 10...	.7	.32	.71	190	471	.64	43.9	250	0	2.0	831	7.4
10141100 SOUTH FORK WEBER RIVER NEAR HOOPER, UTAH--Continued												
JAN. 27...	.1	.85	.92	100	390	.53	590	210	0	1.7	663	8.1
FEB. 11...	.2	.69	1.2	150	137	.19	171	230	9	1.1	666	8.4
MAR. 06...	.3	.49	.34	60	263	.36	845	170	7	.7	424	7.8
APR. 21...	.2	.36	.25	0	235	.32	882	160	8	.8	419	7.9
JUNE 01...	.3	.77	1.0	170	369	.50	64.4	220	2	1.4	668	7.0
JULY 10...	.6	.31	.98	200	510	.69	97.1	260	0	2.3	918	7.1
AUG. 17...	.3	.60	.80	170	415	.56	63.1	250	1	1.5	721	8.0
10141150 MIDDLE FORK WEBER RIVER NEAR HOOPER, UTAH--Continued												
JAN. 27...	.8	.98	.58	80	282	.38	12.9	180	19	1.0	491	7.8
MAR. 07...	.3	.46	.34	80	225	.31	50.4	160	10	.5	391	7.7
APR. 24...	.3	.33	.21	0	213	.29	53.1	160	16	.4	367	8.0
MAY 30...	.2	.73	1.3	110	296	.40	41.7	190	6	1.0	536	7.6
JULY 14...	.5	.04	1.4	120	406	.55	87.1	230	0	1.7	722	8.1
AUG. 17...	.3	.52	.95	140	393	.53	30.2	240	5	1.3	691	8.0
22...	.4	.49	2.8	160	408	.55	78.3	250	4	1.5	740	7.7
10141200 NORTH FORK WEBER RIVER NEAR HOOPER, UTAH--Continued												
JAN. 27...	.2	.74	.95	100	381	.52	185	250	25	1.3	666	8.3
FEB. 11...	.3	.70	1.0	90	374	.51	126	240	16	1.1	644	8.0
MAR. 06...	.2	.75	.40	30	271	.37	439	170	13	.6	401	7.7
APR. 21...	.2	.34	.28	0	210	.29	475	150	7	.5	371	8.0
MAY 30...	.2	.71	.80	90	307	.42	78.1	200	17	1.1	548	7.8
AUG. 22...	.4	.01	1.3	270	443	.60	1.70	240	0	2.0	777	8.5
TRIBUTARIES BETWEEN WEBER AND JORDAN RIVERS												
10141400 HOWARD SLOUGH AT HOOPER, UTAH--Continued												
JAN. 27...	.4	2.9	1.0	240	650	.88	63.2	330	0	2.9	1070	8.6
FEB. 16...	.5	2.7	1.5	350	812	1.10	56.6	340	0	3.8	1330	8.3
MAR. 14...	.4	2.1	.49	220	548	.75	32.4	280	0	2.2	870	8.6
APR. 26...	.4	1.9	.15	170	435	.59	34.4	260	0	1.6	739	8.1
JUNE 01...	.4	.13	.46	320	433	.59	33.6	230	0	1.9	740	7.7
JULY 10...	.7	.20	.40	250	443	.60	24.2	250	0	1.7	760	8.0
AUG. 17...	.4	.29	.49	320	534	.73	19.2	290	0	2.0	877	8.1
SEP. 14...	.4	.20	.49	230	530	.72	37.6	290	0	1.8	783	8.1

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED POT- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
JORDAN RIVER BASIN--Continued												
10172630 GOGGIN DRAIN NEAR MAGNA, UTAH (LAT 40°49'00", LONG 112°06'00")												
FEB. 15...	1615	6.0	243	22	100	64	220	20	305	0	290	340
MAR. 13...	1425	12.5	245	23	88	56	190	15	279	0	290	250
APR. 20...	1230	9.0	401	16	88	56	230	17	272	0	320	600
MAY 24...	1120	15.0	104	17	95	51	220	14	261	0	290	320
JUNE 22...	1035	18.5	63	18	100	56	220	16	284	0	300	300
JULY 17...	1520	27.5	11	15	120	87	590	36	358	0	540	840
AUG. 16...	1510	23.5	192	24	120	62	200	17	313	0	360	270
SEP. 14...	1615	20.0	52	21	110	71	330	23	322	0	420	460
10172640 LEE CREEK NEAR MAGNA, UTAH (LAT 40°46'50", LONG 112°08'19")												
JAN. 27...	1130	2.5	4.5	6.2	290	1500	23000	1100	273	0	3200	38000
FEB. 10...	1215	3.5	2.1	9.7	260	2100	27000	1200	426	0	4000	49000
MAR. 17...	1145	14.0	1.4	8.6	240	2000	21000	1300	413	--	5300	38000
APR. 19...	1100	5.5	21	3.6	340	2500	42000	1600	251	0	5800	69000
MAY 23...	1250	22.5	5.0	--	340	4000	34000	2400	507	--	9200	63000
JUNE 20...	1220	24.2	3.0	--	210	1400	13000	1100	298	--	4100	23000
JULY 25...	1400	24.0	6.1	--	180	2200	8800	1200	383	33	4900	17000
AUG. 16...	1140	22.0	10	--	150	7900	20000	4500	841	--	18000	46000
SEP. 15...	1310	20.5	6.6	16	170	4400	16000	2700	495	38	8700	36000
10172650 KENNECOTT DRAIN NEAR MAGNA, UTAH (LAT 40°45'28", LONG 112°10'14")												
JAN. 27...	1030	5.0	84	41	220	99	1000	46	39	0	710	1700
FEB. 10...	1030	3.5	122	29	240	93	960	44	0	0	700	1700
MAR. 17...	1320	14.5	70	31	260	100	1100	72	84	0	740	1900
APR. 19...	1650	9.0	263	21	160	75	760	5.0	129	0	520	1200
MAY 23...	1045	17.0	108	31	190	91	710	49	185	0	610	1200
JUNE 20...	1040	20.2	112	31	190	87	620	48	217	0	560	1000
JULY 21...	1615	23.8	153	30	140	86	560	38	230	0	430	910
AUG. 16...	0925	20.1	116	27	180	97	680	48	258	0	590	1200
SEP. 15...	1115	17.0	126	38	180	93	650	41	192	0	570	1100

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

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CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHATE (P04) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED (SUM OF TUENTS) (MG/L)	DIS- SOLVED SOLIDS (IONS PER AC-FT)	DIS- SOLVED SOLIDS (IONS 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)
JORDAN RIVER BASIN--Continued												
10172630 GOGGIN DRAIN NEAR MAGNA, UTAH--Continued												
FEB. 15...	.5	1.0	1.6	360	1210	1.65	194	510	260	4.2	2060	7.8
MAR. 13...	.6	1.0	1.7	320	1060	1.44	101	450	220	3.9	1690	7.6
APR. 20...	.6	1.1	2.0	380	1470	2.00	1590	450	230	4.7	1880	7.9
MAY 24...	.5	1.4	2.1	370	1140	1.55	320	450	230	4.5	1960	7.6
JUNE 22...	.5	1.6	1.6	350	1160	1.58	200	480	250	4.4	1940	7.7
JULY 17...	1.1	.70	2.3	770	2410	3.28	72.2	660	360	10	3850	8.4
AUG. 16...	.7	2.0	3.1	420	1220	1.66	632	550	300	3.7	1910	7.9
SEP. 14...	.7	1.6	2.1	670	1600	2.18	228	570	300	6.0	2580	8.3
10172640 LEE CREEK NEAR MAGNA, UTAH--Continued												
JAN. 27...	1.2	.14	2.0	7200	67200	91.4	816	6900	6700	121	76100	7.9
FEB. 10...	1.5	.15	2.1	4200	63800	114	480	9300	8900	122	--	7.9
MAR. 17...	5.9	.03	1.7	7000	68100	92.6	263	8800	8500	97	--	8.1
APR. 19...	5.9	.29	2.4	--	121000	165	6960	11000	11000	173	--	8.3
MAY 23...	--	--	--	--	--	156	1560	17000	17000	112	--	--
JUNE 20...	--	--	--	--	--	60.9	370	6300	6000	71	--	--
JULY 25...	--	--	--	--	--	52.6	639	9500	9100	39	--	9.1
AUG. 16...	--	--	--	--	--	139	2860	33000	32000	48	--	--
SEP. 15...	4.2	.28	1.7	--	68300	92.9	1230	19000	18000	51	--	9.1
10172650 KENNECOTT DRAIN NEAR MAGNA, UTAH--Continued												
JAN. 27...	13	1.7	58	470	3920	5.33	889	960	920	14	6240	5.7
FEB. 10...	40	1.7	46	360	3860	5.25	1270	980	980	13	6340	4.0
MAR. 17...	14	1.1	26	430	4290	5.83	820	1100	990	15	7140	6.4
APR. 19...	15	.69	34	420	2860	3.89	2030	710	600	12	4840	6.7
MAY 23...	15	1.2	9.5	470	3000	4.08	875	850	700	11	4960	7.1
JUNE 20...	10	1.3	10	460	2670	3.63	807	830	650	9.4	4500	7.3
JULY 21...	14	.87	3.4	450	2330	3.17	963	700	510	9.2	3910	7.1
AUG. 16...	2.6	1.2	1.1	520	2960	4.03	927	850	640	10	4510	8.1
SEP. 15...	22	1.2	14	500	2810	3.82	956	830	670	9.8	4490	7.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
COLORADO RIVER BASIN				
TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER				
09182000	CASTLE CREEK ABOVE DIVERSIONS, NEAR MOAB, UTAH (LAT 38°35'34", LONG 109°15'54")			
AUG., 1971				
17...	1000	1.0	8.0	210
SEP.				
20...	1500	.70	8.0	210
OCT.				
13...	1515	.50	9.0	210
DEC.				
10...	1515	.70	.0	250
JAN., 1972				
17...	1045	.60	5.0	240
FEB.				
10...	1530	.40	.0	260
16...	1630	.50	.0	220
MAR.				
09...	1515	.40	9.0	220
APR.				
17...	1545	.50	8.5	210
MAY				
19...	1630	.80	9.0	220
JUNE				
20...	1500	2.0	9.0	180
JULY				
18...	1910	1.0	9.0	200
AUG.				
17...	1330	.70	11.5	210
SEP.				
20...	1430	.50	10.0	220
09183000	COURTHOUSE WASH NEAR MOAB, UTAH (LAT 38°36'46", LONG 109°34'45")			
SEP., 1971				
20...	1400	.10	--	700
NOV.				
09...	1430	.20	12.0	750
DEC.				
20...	1600	.30	5.5	820
JAN., 1972				
17...	1130	.30	7.0	900
MAR.				
16...	1500	.30	22.0	940
APR.				
19...	1300	.88	22.0	950
MAY				
22...	1500	.05	30.0	950
JUNE				
20...	0900	.10	17.0	1050
JULY				
19...	1000	.10	21.0	750
AUG.				
21...	1130	.10	19.0	1050
SEP.				
19...	1430	6.8	25.0	260
09184000	MILL CREEK NEAR MOAB, UTAH (LAT 38°33'44", LONG 109°30'48")			
AUG., 1971				
20...	1120	13	24.0	240
MAY, 1972				
30...	1630	7.0	27.0	200
JUNE				
20...	1100	11	19.5	210
JULY				
19...	1200	8.2	21.0	245
09185800	INDIAN CREEK TUNNEL NEAR MONTICELLO, UTAH (LAT 37°50'28", LONG 109°30'17")			
SEP., 1971				
02...	1125	.90	9.0	260
MAR., 1972				
06...	1200	1.4	.0	360
MAY				
30...	1300	7.2	7.0	200
JUNE				
07...	1400	11	5.0	180
JULY				
05...	1200	1.1	9.5	220
AUG.				
01...	1400	.80	12.5	260
SEP.				
07...	1040	.50	6.5	260

SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
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COLORADO RIVER BASIN--Continued

GREEN RIVER BASIN

09217900 BLACKS FORK NEAR ROBERTSON, WYO. (LAT 40°57'43", LONG 110°34'38")

AUG., 1971				
10...	1000	166	11.0	70
SEP.				
07...	1355	244	11.0	100
OCT.				
12...	1350	49	8.0	120
NOV.				
09...	1540	54	.5	170
MAR., 1972				
24...	0945	33	.0	205
MAY				
23...	1500	474	5.0	150
JULY				
03...	1320	312	10.0	115
AUG.				
02...	1400	90	15.0	130
SEP.				
05...	1440	70	11.0	130

09234700 RED CREEK NEAR DUTCH JOHN, UTAH (LAT 40°58'11", LONG 109°14'12")

AUG., 1971				
09...	1300	1.0	24.0	1180
SEP.				
08...	1215	3.5	22.0	1170
OCT.				
13...	1030	2.5	7.0	1500
NOV.				
10...	0815	13	.0	1170
DEC.				
09...	1020	1.5	.0	1420
JAN., 1972				
18...	1000	.90	.0	1700
FEB.				
08...	1050	.80	.0	1590
APR.				
25...	0900	13	8.0	930
MAY				
05...	1000	13	11.0	950
24...	0930	17	12.0	900
JULY				
04...	0730	2.1	11.0	1250
AUG.				
03...	0715	1.2	14.0	1330
SEP.				
06...	0900	5.2	11.0	1500

09235600 POT CREEK ABOVE DIVERSIONS, NEAR VERNAL, UTAH (LAT 40°46'05", LONG 109°19'06")

OCT., 1971				
01...	0850	.40	2.0	300
NOV.				
08...	0920	.60	.0	295
MAR., 1972				
22...	1015	15	2.0	260
APR.				
18...	0810	10	4.0	260
MAY				
19...	1600	12	12.0	160
JUNE				
02...	1010	4.2	--	180
JULY				
05...	1040	.10	15.0	220
SEP.				
08...	1050	.10	13.0	320

09235800 POT CREEK NEAR VERNAL, UTAH (LAT 40°40'25", LONG 109°03'03")

AUG., 1971				
02...	1030	5.6	17.0	280
OCT.				
01...	1010	.30	5.0	240
NOV.				
08...	1130	.20	.5	420
MAR., 1972				
22...	1215	.40	9.0	385
APR.				
18...	1010	.20	7.0	460
MAY				
19...	1200	.05	14.0	430
JULY				
05...	0900	1.6	13.0	440

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
COLORADO RIVER BASIN--Continued				
GREEN RIVER BASIN--Continued				
09262000	BIG BRUSH CREEK NEAR VERNAL, UTAH (LAT 40°34'54", LONG 109°26'03")			
AUG., 1971				
02...	0800	27	11.0	300
SEP.				
01...	0745	26	11.0	410
OCT.				
01...	1510	24	10.0	470
NOV.				
04...	0900	15	1.5	520
DEC.				
02...	0840	14	.0	540
JAN., 1972				
12...	--	14	--	610
FEB.				
08...	1545	14	3.0	540
MAR.				
27...	1100	21	4.0	520
APR.				
20...	0725	27	5.0	490
MAY				
20...	1230	176	9.0	200
JUNE				
13...	--	53	--	290
JULY				
05...	1315	19	16.0	490
AUG.				
01...	1325	24	19.0	410
SEP.				
08...	1255	18	15.0	425
09265300	ASHLEY CREEK ABOVE RED PINE CREEK, NEAR VERNAL, UTAH (LAT 40°40'47", LONG 109°39'37")			
AUG., 1971				
06...	0800	24	10.0	<50
SEP.				
13...	0820	13	8.0	<50
OCT.				
05...	0900	15	4.0	<50
MAY, 1972				
03...	1015	51	1.5	50
25...	0810	314	3.0	<50
JUNE				
16...	--	214	9.0	<50
JULY				
11...	0820	46	10.0	<50
AUG.				
15...	0845	13	11.0	85
SEP.				
12...	1000	11	--	65
09266500	ASHLEY CREEK NEAR VERNAL, UTAH (LAT 40°34'39", LONG 109°37'17")			
AUG., 1971				
06...	1220	71	11.0	140
SEP.				
13...	1110	61	12.0	135
OCT.				
05...	1240	35	9.0	140
NOV.				
02...	1320	37	6.0	160
DEC.				
01...	1340	30	6.0	160
JAN., 1972				
11...	0930	25	6.0	185
FEB.				
09...	0850	22	5.0	200
MAR.				
28...	0730	22	6.0	160
APR.				
19...	1440	44	6.5	195
MAY				
17...	1340	478	6.5	115
JUNE				
16...	--	214	9.0	125
JULY				
11...	1145	132	11.0	170
AUG.				
15...	1330	57	14.0	370
SEP.				
12...	1300	60	11.0	140

SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG °)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
COLORADO RIVER BASIN--Continued				
GREEN RIVER BASIN--Continued				
09267500	MOSBY CANAL NEAR LAPOINT, UTAH (LAT 40°36'30", LONG 109°53'00")			
SEP., 1971				
03...	0910	14	6.0	<50
OCT.				
07...	0740	16	3.0	<50
NOV.				
12...	1100	.10	.0	<50
MAY, 1972				
26...	0800	15	3.0	<50
JUNE				
12...	--	21	--	<50
JULY				
10...	0950	19	10.0	<50
SEP.				
13...	0930	8.4	5.0	<50
09268000	DRY FORK ABOVE SINKS, NEAR DRY FORK, UTAH (LAT 40°37'35", LONG 109°49'10")			
AUG., 1971				
03...	0830	10	11.0	<50
SEP.				
10...	0850	15	8.0	<50
OCT.				
06...	1015	8.4	4.5	<50
APR., 1972				
17...	1050	14	3.0	<50
JUNE				
01...	0750	324	5.0	<50
JULY				
07...	0830	14	10.0	<50
AUG.				
08...	0740	5.5	11.0	<50
SEP.				
11...	0900	7.3	9.0	<50
09268500	NORTH FORK OF DRY FORK NEAR DRY FORK, UTAH (LAT 40°38'34", LONG 109°48'37")			
AUG., 1971				
03...	1100	8.3	7.0	<50
SEP.				
10...	1110	4.3	7.0	<50
OCT.				
06...	1215	3.7	5.0	<50
NOV.				
11...	0800	1.0	.0	<50
MAR., 1972				
21...	1315	2.0	4.0	<50
APR.				
17...	1400	4.4	3.0	<50
MAY				
22...	1300	37	5.0	<50
31...	1300	39	8.0	<50
JULY				
07...	1040	9.6	9.0	<50
AUG.				
01...	1120	3.8	10.0	<50
SEP.				
11...	1100	2.8	8.0	<50
09268900	BROWNIE CANYON ABOVE SINKS, NEAR DRY FORK, UTAH (LAT 40°39'34", LONG 109°45'01")			
AUG., 1971				
03...	1300	13	7.0	<50
SEP.				
10...	1300	6.3	8.0	58
OCT.				
06...	1500	4.5	5.0	60
NOV.				
11...	1000	1.4	.0	<50
MAR., 1972				
28...	1400	4.4	.0	<50
APR.				
17...	1530	4.9	3.0	<50
MAY				
22...	1500	70	4.0	<50
31...	1500	91	9.0	60
JULY				
07...	1255	13	9.0	<50
AUG.				
08...	1400	6.7	9.0	<50
SEP.				
11...	1400	4.6	9.0	<50

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
COLORADO RIVER BASIN--Continued				
GREEN RIVER BASIN--Continued				
09270500	DRY FORK AT MOUTH, NEAR DRY FORK, UTAH (LAT 40°31'35", LONG 109°36'18")			

AUG., 1971				
03...	1525	3.2	21.0	590
OCT.				
08...	1030	3.8	12.0	700
NOV.				
02...	1050	3.7	.0	695
DEC.				
01...	1040	3.8	.5	770
JAN., 1972				
11...	1500	2.6	.0	870
FEB.				
09...	1250	3.7	.0	880
MAR.				
21...	0750	1.0	1.5	800
APR.				
19...	1135	1.1	5.0	800
MAY				
17...	1000	7.1	8.0	540
26...	1330	243	10.0	95
JUNE				
13...	0800	125	10.0	210
JULY				
12...	--	4.8	14.0	690
AUG.				
09...	--	2.3	--	730
SEP.				
13...	1430	.90	19.0	750

09271070 HIGHLINE CANAL BELOW MANTLE GULCH, NEAR JENSEN, UTAH
(LAT 40°22'01", LONG 109°30'10")

AUG., 1971				
05...	0900	7.2	16.0	200
MAY, 1972				
18...	0650	12	8.0	210
JUNE				
09...	--	10	16.0	190
JULY				
06...	1000	.20	19.0	315
AUG.				
03...	1400	10	18.0	275
SEP.				
07...	0720	2.7	12.0	285

09271470 RIVER IRRIGATION COMPANY CANAL NEAR JENSEN, UTAH
(LAT 40°22'43", LONG 109°24'04")

AUG., 1971				
05...	0750	8.6	--	2000
SEP.				
03...	1330	2.3	15.0	1960
OCT.				
08...	1435	.30	14.0	2000
NOV.				
04...	1545	.05	3.0	1820
APR., 1972				
20...	1140	1.8	7.0	2850
MAY				
18...	1000	4.0	12.0	1650
JULY				
06...	--	5.8	--	1850
AUG.				
03...	1500	3.4	20.0	2030
SEP.				
07...	1500	1.9	15.0	2200

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG F)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MOS)
COLORADO RIVER BASIN--Continued				
GREEN RIVER BASIN--Continued				
09271500	ASHLEY CREEK NEAR JENSEN, UTAH (LAT 40°22'29", LONG 109°24'27")			
AUG., 1971				
05...	0620	17	19.0	2600
SEP.				
03...	1215	28	16.0	2100
OCT.				
08...	1300	34	18.0	2380
NOV.				
04...	1420	58	3.0	2170
DEC.				
02...	--	39	--	2100
JAN., 1972				
12...	1340	30	.0	2220
FEB.				
10...	0820	17	.0	2180
MAR.				
27...	1500	22	8.0	2200
APR.				
20...	1000	19	7.0	2650
MAY				
18...	0840	28	13.0	2050
JUNE				
09...	0720	306	14.0	875
JULY				
06...	0650	18	18.0	2100
AUG.				
01...	1510	8.7	25.0	2930
SEP.				
07...	0920	10	15.0	2700
09275500	WEST FORK DUCHESNE RIVER NEAR HANNA, UTAH (LAT 40°27'01", LONG 110°53'01")			
AUG., 1971				
16...	1810	24	18.5	400
SEP.				
08...	1750	23	16.0	395
OCT.				
13...	1700	21	11.0	470
FEB., 1972				
24...	1100	16	.0	509
APR.				
13...	1330	43	3.0	440
MAY				
18...	1100	267	5.0	280
JUNE				
15...	1530	109	11.0	318
JULY				
20...	1210	36	13.0	420
AUG.				
17...	1040	22	11.0	460
SEP.				
14...	1015	19	7.0	500
09276000	WOLF CREEK ABOVE RHOADES CANYON, NEAR HANNA, UTAH (LAT 40°28'16", LONG 110°55'05")			
AUG., 1971				
16...	1850	9.6	8.0	290
SEP.				
08...	1915	7.7	6.5	300
NOV.				
16...	1155	5.2	.5	320
FEB., 1972				
24...	1010	3.4	--	310
APR.				
13...	1235	3.8	4.0	320
MAY				
18...	1000	20	4.0	240
JUNE				
15...	1445	30	7.0	225
JULY				
20...	1305	10	9.0	310
AUG.				
17...	1130	8.8	9.0	320
SEP.				
14...	0855	7.6	7.0	320

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIST- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCTI- ANCE (MICRO- MHOS)
COLORADO RIVER BASIN--Continued				
GREEN RIVER BASIN--Continued				
09277500	DUCHESNE RIVER NEAR TABIONA, UTAH (LAT 40°17'56", LONG 110°36'54")			
NOV., 1971				
16...	1450	139	12.0	520
DEC.				
15...	1410	117	.0	520
JAN., 1972				
18...	1410	108	3.0	510
FEB.				
15...	1115	977	.5	515
MAR.				
16...	1300	136	9.0	460
APR.				
14...	1015	163	5.0	410
MAY				
17...	1230	524	9.0	280
JUNE				
16...	1030	556	--	290
JULY				
20...	1045	164	13.0	470
AUG.				
24...	1230	94	12.0	520
SEP.				
14...	1350	102	11.0	540
09277800	ROCK CREEK ABOVE SOUTH FORK, NEAR HANNA, UTAH (LAT 40°33'27", LONG 110°41'50")			
NOV., 1971				
09...	1235	48	1.0	<50
MAR., 1972				
21...	1130	29	3.5	<50
MAY				
01...	1505	91	5.0	<50
31...	1200	522	4.5	<50
JUNE				
22...	1015	522	8.5	<50
AUG.				
02...	1345	80	11.5	<50
18...	1055	52	11.0	<50
SEP.				
13...	0945	41	6.5	<50
09278000	SOUTH FORK ROCK CREEK NEAR HANNA, UTAH (LAT 40°32'54", LONG 110°41'37")			
NOV., 1971				
09...	1347	5.6	.5	200
MAR., 1972				
21...	1255	8.0	2.0	230
MAY				
01...	1613	10	4.5	210
31...	1515	114	7.5	170
JUNE				
22...	1335	67	6.5	190
AUG.				
02...	0955	12	7.5	195
18...	0930	6.7	7.0	250
SEP.				
13...	1150	5.2	5.5	240
09279000	ROCK CREEK NEAR MOUNTAIN HOME, UTAH (LAT 40°29'36", LONG 110°34'39")			
NOV., 1971				
09...	0955	105	.5	135
DEC.				
07...	1005	71	.0	145
MAR., 1972				
21...	1521	59	4.0	170
APR.				
27...	1120	66	5.0	145
JUNE				
01...	0905	1740	8.5	105
22...	1500	642	10.5	105
AUG.				
03...	0920	113	10.5	110
18...	1253	89	12.5	170
SEP.				
13...	1450	64	10.5	165

SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
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COLORADO RIVER BASIN--Continued

GREEN RIVER BASIN--Continued

09279100 ROCK CREEK NEAR TALMAGE, UTAH (LAT 40°18'40", LONG 110°29'36")

SEP., 1971				
10...	1030	91	12.0	175
OCT.				
08...	1300	86	11.5	200
NOV.				
08...	1432	64	3.0	155
DEC.				
07...	1240	67	.0	235
JAN., 1972				
11...	0940	57	.0	280
FEB.				
15...	1020	46	.0	280
MAR.				
23...	0835	65	7.0	270
APR.				
27...	1405	70	14.0	265
JUNE				
01...	1305	1710	9.0	145
21...	1005	697	11.0	130
AUG.				
01...	1405	106	--	165
29...	1400	83	17.0	250
SEP.				
13...	1625	63	16.5	235

09279150 DUCHESNE RIVER ABOVE KNIGHT DIVERSION, NEAR DUCHESNE, UTAH
(LAT 40°16'16", LONG 110°26'32")

NOV., 1971				
16...	1615	202	4.5	460
DEC.				
15...	1530	184	.0	420
JAN., 1972				
12...	1500	176	1.0	430
FEB.				
15...	1220	154	2.0	450
MAR.				
16...	1300	204	10.0	410
APR.				
14...	0815	262	3.0	360
MAY				
17...	1000	919	--	230
JUNE				
01...	1530	2800	9.0	170
AUG.				
24...	1115	142	13.0	415
SEP.				
14...	1400	166	14.0	440

09280400 HOBBLE CREEK AT DANIELS SUMMIT, NEAR WALLSBURG, UTAH
(LAT 40°17'54", LONG 111°15'52")

AUG., 1971				
12...	1420	.10	17.0	220
SEP.				
06...	1345	.10	12.5	190
APR., 1972				
19...	1230	3.5	2.0	130
MAY				
15...	0910	16	2.0	110
JUNE				
13...	1030	2.3	--	120
JULY				
21...	0945	.10	--	220
AUG.				
18...	0945	.10	11.0	250
SEP.				
12...	1535	.05	--	260

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
COLORADO RIVER BASIN--Continued				
GREEN RIVER BASIN--Continued				
09285000	STRAWBERRY RIVER NEAR SOLDIER SPRINGS, UTAH (LAT 40°08'39", LONG 111°01'19")			
AUG., 1971				
12...	0940	32	15.0	535
SEP.				
06...	1550	25	10.5	520
OCT.				
08...	1240	23	6.0	565
NOV.				
18...	1530	21	2.5	580
JAN., 1972				
19...	1135	15	3.0	550
FEB.				
17...	1330	17	3.0	540
MAR.				
21...	0845	47	1.0	520
APR.				
11...	0915	56	5.0	460
MAY				
15...	1045	42	7.0	500
JUNE				
13...	1215	38	11.0	500
JULY				
19...	1000	30	12.0	430
AUG.				
15...	1530	28	10.0	520
SEP.				
12...	1315	25	9.0	500
09285700	STRAWBERRY RIVER ABOVE RED CREEK, NEAR FRUITLAND, UTAH (LAT 40°07'01", LONG 110°48'27")			
AUG., 1971				
13...	1430	48	17.0	530
SEP.				
07...	1445	48	12.0	500
OCT.				
14...	1030	39	6.0	590
NOV.				
17...	1255	38	1.5	590
JAN., 1972				
11...	1355	33	1.0	570
FEB.				
16...	1230	32	3.0	550
MAR.				
22...	1130	78	5.0	520
APR.				
12...	1330	85	10.0	505
MAY				
16...	1430	117	14.0	480
JUNE				
15...	1205	93	11.0	490
JULY				
18...	1305	56	15.0	530
AUG.				
16...	1325	44	15.0	500
SEP.				
13...	1430	41	14.0	500
09288000	CURRANT CREEK NEAR FRUITLAND, UTAH (LAT 40°12'01", LONG 110°54'25")			
AUG., 1971				
13...	1045	24	13.0	340
SEP.				
07...	1235	29	11.5	370
OCT.				
08...	1100	25	7.0	420
NOV.				
18...	1430	29	.0	460
JAN., 1972				
19...	1015	28	.0	350
FEB.				
17...	1140	20	.0	420
MAR.				
17...	1115	43	4.0	410
APR.				
11...	1035	116	5.0	345
MAY				
15...	1215	129	--	315
JUNE				
14...	1100	52	12.0	365
JULY				
19...	1440	22	19.0	385
AUG.				
18...	1210	20	14.0	400
SEP.				
12...	1130	20	10.0	420

SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICHO- MHOS)
COLORADO RIVER BASIN--Continued				
GREEN RIVER BASIN--Continued				
09288100	RED CREEK BELOW CURRANT CREEK, NEAR FRUITLAND, UTAH (LAT 40°08'47", LONG 110°45'09")			
AUG., 1971				
13...	1330	30	19.0	560
SEP.				
08...	1135	36	15.0	600
OCT.				
14...	0910	28	5.0	570
NOV.				
17...	1355	40	1.0	520
DEC.				
14...	1000	22	.0	540
JAN., 1972				
11...	1500	29	5.0	580
FEB.				
16...	1315	39	1.0	525
MAR.				
22...	1205	67	6.0	470
APR.				
12...	1500	126	8.0	410
MAY				
16...	1530	146	13.0	360
JUNE				
15...	1230	58	14.0	530
JULY				
18...	1400	26	16.0	530
AUG.				
16...	1440	25	21.0	620
SEP.				
15...	0900	26	9.0	590
09288150	WEST FORK AVINTAQUIN CREEK NEAR FRUITLAND, UTAH (LAT 39°59'40", LONG 110°49'00")			
AUG., 1971				
16...	0935	5.4	11.5	510
SEP.				
08...	1150	4.0	9.5	495
NOV.				
17...	1000	2.0	.0	590
JAN., 1972				
11...	1045	2.2	.5	560
FEB.				
16...	0930	2.1	.5	580
MAR.				
22...	0900	14	2.0	540
APR.				
12...	1030	19	6.0	525
MAY				
16...	1145	53	9.5	470
JUNE				
01...	0800	48	6.0	425
JULY				
18...	1000	8.6	11.0	420
AUG.				
16...	1030	3.6	12.0	510
SEP.				
13...	0900	3.3	6.0	520
09288180	STRAWBERRY RIVER NEAR DUCHESNE, UTAH (LAT 40°09'17", LONG 110°33'15")			
NOV., 1971				
18...	0915	50	.0	900
DEC.				
16...	--	32	.0	830
JAN., 1972				
10...	1500	66	--	800
FEB.				
15...	1415	77	.0	650
MAR.				
17...	0800	139	5.0	640
APR.				
13...	1610	266	6.0	530
MAY				
17...	0830	388	10.0	485
JUNE				
14...	--	179	13.0	560
JULY				
17...	--	81	22.0	660
AUG.				
16...	0820	63	13.0	730
SEP.				
11...	--	79	13.0	765

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICHO- MMHS)
COLORADO RIVER BASIN--Continued				
GREEN RIVER BASIN--Continued				
09288900	SOWERS CREEK NEAR DUCHESNE, UTAH (LAT 39°59'22", LONG 110°27'33")			
SEP., 1971				
17...	0945	.70	4.5	1180
OCT.				
13...	0908	1.0	3.0	1190
NOV.				
08...	0955	.80	.5	1210
DEC.				
08...	1050	1.5	.0	800
JAN., 1972				
12...	1110	1.3	.0	1170
FEB.				
16...	0940	.80	1.0	1215
MAR.				
23...	1325	1.7	8.0	1150
MAY				
01...	0940	4.0	5.5	1350
JUNE				
02...	1015	1.8	12.0	1060
21...	1535	1.5	22.0	1150
AUG.				
01...	1015	1.7	13.0	1200
29...	1010	1.7	9.5	1150
SEP.				
11...	1540	1.6	16.0	1125
09289500	LAKE FORK ABOVE MOON LAKE, NEAR MOUNTAIN HOME, UTAH (LAT 40°36'24", LONG 110°31'35")			
AUG., 1971				
04...	0830	97	9.0	<50
SEP.				
09...	0930	69	7.0	<50
OCT.				
04...	0915	42	3.0	<50
MAR., 1972				
22...	0740	39	1.0	<50
MAY				
02...	1100	67	3.0	<50
JUNE				
05...	--	792	--	<50
JULY				
18...	--	96	--	<50
AUG.				
16...	1155	63	11.0	<50
SEP.				
12...	1106	50	12.0	<50
09291000	LAKE FORK RIVER BELOW MOON LAKE, NEAR MOUNTAIN HOME, UTAH (LAT 40°33'23", LONG 110°29'02")			
AUG., 1971				
04...	1145	331	10.0	<50
SEP.				
09...	1230	257	13.5	<50
OCT.				
04...	1210	69	7.0	<50
APR., 1972				
28...	1055	94	4.5	<50
JUNE				
06...	--	171	7.5	<50
JULY				
19...	--	247	--	<50
AUG.				
16...	1605	319	13.5	<50
SEP.				
12...	1500	168	11.0	<50
09292500	YELLOWSTONE RIVER NEAR ALTONAH, UTAH (LAT 40°30'43", LONG 110°20'27")			
AUG., 1971				
04...	1400	163	10.0	60
SEP.				
09...	1400	120	14.0	88
OCT.				
04...	1400	81	7.0	120
NOV.				
03...	1155	82	1.5	115
DEC.				
03...	0940	84	.0	130
FEB., 1972				
11...	0815	44	.0	80
MAR.				
20...	1330	71	5.0	120
APR.				
28...	1155	65	9.5	135
JUNE				
06...	1220	608	8.5	<50
23...	0950	351	9.0	<50
AUG.				
03...	1315	113	15.0	75
29...	1500	98	--	140
SEP.				
14...	0935	81	7.0	140

SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG F)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHO/S)
COLORADO RIVER BASIN--Continued				
GREEN RIVER BASIN--Continued				
09295000	DUCHESNE RIVER AT MYTON, UTAH (LAT 40°12'01", LONG 110°03'47")			
SEP., 1971				
10...	1310	36	20.0	1580
OCT.				
13...	1155	91	12.5	1200
NOV.				
10...	0850	295	1.0	795
DEC.				
10...	0955	250	.0	820
JAN., 1972				
14...	0915	302	.0	820
FEB.				
17...	0910	524	2.0	750
MAR.				
24...	0925	409	4.5	855
APR.				
21...	1050	110	10.0	1000
JUNE				
02...	1320	2570	13.5	270
JULY				
11...	1005	30	20.0	1650
AUG.				
04...	0843	31	18.0	1400
SEP.				
07...	1250	38	17.0	1950
09297000	UINTA RIVER NEAR NEOLA, UTAH (LAT 40°32'08", LONG 110°03'46")			
SEP., 1971				
14...	1040	150	9.5	<50
OCT.				
14...	0917	106	5.0	59
NOV.				
11...	0915	92	1.0	50
DEC.				
09...	0950	59	.0	70
JAN., 1972				
13...	0925	61	.0	70
FEB.				
17...	1300	56	3.5	50
MAR.				
28...	0923	67	1.0	560
APR.				
20...	0930	83	2.5	545
MAY				
19...	1345	320	9.0	<50
JUNE				
20...	1325	420	12.5	<50
JULY				
27...	0955	240	12.0	<50
AUG.				
10...	0935	173	12.0	<50
SEP.				
25...	1525	83	9.0	<50
09298000	FARM CREEK NEAR WHITEROCKS, UTAH (LAT 40°34'03", LONG 109°57'39")			
AUG., 1971				
25...	1345	2.5	10.5	325
SEP.				
14...	1400	2.5	11.0	300
OCT.				
14...	1325	2.8	9.5	325
NOV.				
12...	0905	2.9	5.0	310
FEB., 1972				
07...	1205	2.4	2.0	320
MAR.				
28...	1255	2.8	2.5	350
APR.				
24...	1355	3.3	11.0	325
MAY				
19...	0950	26	5.5	175
JULY				
25...	1425	3.0	13.5	320
AUG.				
30...	1020	2.9	8.5	360
SEP.				
25...	1015	2.5	6.0	320

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG F)	SPE- CIFIC CON- DUCT- ANCE (MICHO- MHOS)
COLORADO RIVER BASIN--Continued				
GREEN RIVER BASIN--Continued				
09299500	WHITEROCKS RIVER NEAR WHITEROCKS, UTAH (LAT 40°33'54", LONG 109°55'37")			
AUG., 1971				
25...	1145	117	12.5	80
SEP.				
27...	1030	67	--	70
OCT.				
22...	1040	44	2.5	<50
NOV.				
24...	0950	34	1.0	95
DEC.				
22...	1145	37	.0	90
FEB., 1972				
28...	1030	28	.5	95
MAR.				
27...	1045	3.0	1.0	130
JULY				
25...	1100	161	13.0	<50
AUG.				
25...	0740	90	8.0	160
SEP.				
25...	1330	63	8.0	75
09306800	BITTER CREEK NEAR BONANZA, UTAH (LAT 39°45'12", LONG 109°21'15")			
DEC., 1971				
02...	1035	.20	.0	8000
FEB., 1972				
11...	1152	.30	.0	8000
MAR.				
16...	1407	1.0	17.0	6030
APR.				
17...	1035	.90	16.0	6050
MAY				
22...	1435	.60	26.0	6050
JUNE				
16...	1055	.10	26.0	>8000
SEP.				
06...	1430	.05	24.0	>8000
09308500	MINNIE MAUD CREEK NEAR MYTON, UTAH (LAT 39°48'10", LONG 110°35'00")			
OCT., 1971				
12...	1055	.60	9.5	750
NOV.				
05...	1125	1.2	2.5	740
DEC.				
06...	1230	1.4	.0	545
JAN., 1972				
10...	1330	4.2	.0	530
FEB.				
14...	1355	1.6	.0	980
MAR.				
20...	1135	9.9	8.0	630
APR.				
26...	1255	8.9	8.0	605
MAY				
18...	1240	9.6	4.0	550
JUNE				
17...	1135	3.5	19.0	650
JULY				
31...	1055	.60	22.0	710
AUG.				
17...	1115	.40	13.5	750
SEP.				
11...	1050	.50	15.0	675
09309600	FAIRVIEW TUNNEL NEAR FAIRVIEW, UTAH (LAT 39°40'03", LONG 111°18'41")			
JUNE, 1972				
13...	1250	12	16.0	290
JULY				
18...	1025	14	16.0	260
AUG.				
24...	1145	1.4	10.5	310

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MOS)
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COLORADO RIVER BASIN--Continued

GREEN RIVER BASIN--Continued

09310000 GOOSEBERRY CREEK NEAR SCOFIELD, UTAH (LAT 39°42'57", LONG 111°17'58")

AUG., 1971				
09...	1225	6.2	18.5	145
SEP.				
02...	1010	4.9	13.5	140
29...	1335	4.5	9.0	150
FEB., 1972				
06...	1120	4.0	1.0	440
MAR.				
17...	0930	7.0	1.0	400
APR.				
20...	0905	19	2.0	330
MAY				
19...	1110	71	10.0	330
JUNE				
13...	1120	18	16.5	300
JULY				
17...	1405	5.1	21.0	140
AUG.				
24...	1015	2.5	12.5	150

09310500 FISH CREEK ABOVE RESERVOIR, NEAR SCOFIELD, UTAH
(LAT 39°46'28", LONG 111°11'25")

AUG., 1971				
09...	1000	17	13.5	320
SEP.				
02...	1315	10	15.0	300
29...	0940	10	10.0	350
NOV.				
04...	1005	10	1.0	310
MAR., 1972				
14...	0925	22	.5	400
MAY				
08...	1055	207	4.0	360
15...	1445	180	11.0	340
JUNE				
07...	1525	64	15.5	320
JULY				
18...	1150	11	15.5	305
AUG.				
24...	1350	6.9	14.5	320

09312600 WHITE RIVER BELOW TABBYUNE CREEK, NEAR SOLDIER SUMMIT, UTAH
(LAT 39°52'33", LONG 111°02'12")

AUG., 1971				
06...	1335	8.8	17.0	495
30...	1330	7.0	12.0	530
SEP.				
27...	1235	4.3	10.5	625
NOV.				
02...	1130	8.6	2.0	630
DEC.				
13...	1160	6.4	.0	600
JAN., 1972				
25...	1200	4.7	.0	640
MAR.				
13...	1210	47	3.0	560
APR.				
17...	1255	62	7.5	530
MAY				
15...	1225	85	8.0	500
JUNE				
07...	1345	33	14.0	510
JULY				
18...	1310	6.0	19.5	540
AUG.				
30...	0945	4.0	12.5	560

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIST- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SPEC- IFIC CON- DUCT- ANCE (MICRO- MOS)
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COLORADO RIVER BASIN--Continued

GREEN RIVER BASIN--Continued

09312700 BEAVER CREEK NEAR SOLDIER SUMMIT, UTAH (LAT 39°49'50", LONG 110°58'07")

AUG., 1971				
06...	1225	1.3	19.0	395
30...	1225	2.3	11.0	330
SEP.				
27...	1125	.20	7.0	480
NOV.				
04...	1510	3.0	1.0	430
DEC.				
13...	1320	1.6	.0	440
JAN., 1972				
25...	1405	1.3	.0	450
MAR.				
13...	1445	6.8	6.0	400
APR.				
17...	1420	4.2	10.5	380
MAY				
16...	0840	6.0	6.0	350
JUNE				
08...	0745	4.3	11.5	380

09312800 WILLOW CREEK NEAR CASTLE GATE, UTAH (LAT 39°46'40", LONG 110°47'25")

AUG., 1971				
06...	1110	1.4	19.0	750
30...	1105	1.0	16.0	730
SEP.				
27...	0955	.50	4.0	800
NOV.				
04...	1605	2.3	.0	740
DEC.				
13...	1605	.90	.0	820
JAN., 1972				
25...	1615	1.0	.0	950
MAR.				
14...	1150	13	9.0	650
APR.				
17...	1510	8.9	10.0	630
MAY				
16...	0935	9.4	7.5	600
JUNE				
08...	0910	9.0	11.0	630
AUG.				
09...	1340	.60	27.0	740
30...	1135	.50	19.0	750

09319000 EPHRAIM TUNNEL NEAR EPHRAIM, UTAH (LAT 39°19'47", LONG 111°25'51")

AUG., 1971				
10...	1035	1.8	10.5	310
SEP.				
01...	1135	.70	11.0	320
MAY, 1972				
16...	1530	20	1.0	280
JUNE				
09...	1130	25	7.0	275
AUG.				
23...	1230	.50	10.0	320

09323000 SPRING CITY TUNNEL NEAR SPRING CITY, UTAH
(LAT 39°25'34", LONG 111°21'51")

AUG., 1971				
09...	1545	2.6	14.5	330
SEP.				
01...	1345	1.5	11.5	310
29...	1710	.90	5.5	340
JUNE, 1972				
12...	1135	12	6.5	300
AUG.				
23...	1020	1.0	6.0	340

SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

		DISE- CHARGE (CFS)		TEMPER- ATURE (DEG C)		SPEC- IFIC CON- DUCT- ANCE (MICRO- MHOS)	
DATE		TIME					
COLORADO RIVER BASIN--Continued							
DIRTY DEVIL RIVER BASIN							
09329050	SEVEN MILE CREEK NEAR FISH LAKE, UTAH (LAT 38°37'40", LONG 111°39'00")						
AUG., 1971							
05...	1435	14	10.0	140			
SEP.							
13...	1430	12	11.5	130			
MAR., 1972							
03...	1035	7.0	.0	145			
MAY							
08...	1035	31	1.5	120			
JUNE							
08...	1030	18	5.5	140			
JULY							
05...	1330	8.6	13.0	135			
AUG.							
08...	1535	6.7	14.0	160			
09329900	PINE CREEK NEAR BICKNELL, UTAH (LAT 38°16'10", LONG 111°35'00")						
SEP., 1971							
13...	1620	2.7	17.5	140			
OCT.							
20...	1005	.40	.5	140			
DEC.							
01...	0935	1.4	.0	115			
JAN., 1972							
14...	0950	1.4	.0	120			
FEB.							
15...	0935	1.8	.0	125			
MAR.							
23...	1910	2.2	5.0	130			
APR.							
25...	1210	2.5	5.0	155			
MAY							
25...	1335	2.1	15.0	135			
JULY							
05...	1530	1.8	18.0	125			
AUG.							
08...	1810	2.0	--	120			
SEP.							
18...	1515	2.5	13.0	120			
09330210	PLEASANT CREEK NEAR CAINEVILLE, UTAH (LAT 38°16'20", LONG 111°05'30")						
SEP., 1971							
14...	1155	1.8	20.0	1600			
OCT.							
19...	1340	3.0	12.0	1120			
NOV.							
30...	1530	1.6	4.0	1450			
JAN., 1972							
13...	1500	2.8	1.0	1100			
FEB.							
14...	1430	4.6	5.5	1200			
MAR.							
24...	0915	1.5	5.0	1480			
JULY							
06...	0935	.60	18.0	1500			
AUG.							
09...	1435	.50	33.5	1500			
SEP.							
19...	0850	.60	13.5	1500			
09330230	FREMONT RIVER NEAR CAINEVILLE, UTAH (LAT 38°16'40", LONG 111°04'00")						
AUG., 1971							
05...	0830	45	16.5	740			
SEP.							
14...	1440	45	23.0	825			
OCT.							
19...	1015	54	3.0	850			
NOV.							
30...	1255	98	3.0	790			
JAN., 1972							
13...	1150	94	3.5	610			
FEB.							
14...	1120	106	5.0	640			
MAR.							
24...	1035	53	10.0	740			
APR.							
25...	0930	53	9.5	945			
MAY							
26...	0945	40	14.0	775			
JULY							
06...	1045	35	20.5	750			
AUG.							
09...	1100	28	24.0	700			
SEP.							
19...	1025	53	16.0	700			

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

SPECIFIC
CONDUCTANCE
(MICRO-
MMHOS)

DIS- TEMPE-
CHARGE ATURE
(CFS) (DEG C)

DATE TIME

COLORADO RIVER BASIN--Continued

DIRTY DEVIL RIVER BASIN--Continued

09333500 DIRTY DEVIL RIVER ABOVE POISON SPRING WASH, NEAR HANKSVILLE, UTAH
(LAT 38°05'50", LONG 110°24'27")

DATE	TIME	DIS- CHARGE (CFS)	TEMPE- ATURE (DEG C)	SPECIFIC CONDUCTANCE (MICRO- MMHOS)
AUG., 1971				
10...	1100	4.8	21.0	5000
SEP.				
22...	1530	22	19.5	2000
OCT.				
22...	1500	41	12.5	1900
NOV.				
11...	1035	119	7.0	2000
DEC.				
15...	1210	14	.0	1500
JAN., 1972				
12...	1200	108	1.0	1550
FEB.				
09...	1200	202	.0	1450
MAR.				
14...	1600	94	1.5	1500
APR.				
11...	1230	20	17.5	2200
MAY				
09...	1040	1.1	15.0	3000
SEP.				
13...	1130	5.4	20.0	2200

ESCALANTE RIVER BASIN

09337000 PINE CREEK NEAR ESCALANTE, UTAH (LAT 37°51'45", LONG 111°38'07")

DATE	TIME	DIS- CHARGE (CFS)	TEMPE- ATURE (DEG C)	SPECIFIC CONDUCTANCE (MICRO- MMHOS)
AUG., 1971				
19...	1615	1.5	19.0	340
SEP.				
15...	1215	1.0	13.5	400
OCT.				
21...	0850	2.1	1.0	400
DEC.				
02...	1535	.80	.5	340
FEB., 1972				
17...	1405	2.3	.0	340
MAR.				
23...	1135	1.4	9.0	360
APR.				
18...	1550	3.3	11.0	400
MAY				
12...	0910	7.5	4.0	220
JUNE				
05...	1320	4.0	15.0	255
JULY				
11...	1610	3.6	22.5	250
AUG.				
14...	1915	1.2	17.5	360
SEP.				
13...	2005	1.2	14.0	340

09338000 EAST FORK BOULDER CREEK NEAR BOULDER, UTAH (LAT 38°02'31", LONG 111°26'58")

DATE	TIME	DIS- CHARGE (CFS)	TEMPE- ATURE (DEG C)	SPECIFIC CONDUCTANCE (MICRO- MMHOS)
AUG., 1971				
20...	1000	17	7.0	80
SEP.				
15...	1445	16	9.5	90
OCT.				
20...	1340	17	4.0	90
APR., 1972				
19...	1015	16	.0	110
JUNE				
06...	1015	30	5.5	70
JULY				
11...	1240	17	8.0	80
AUG.				
14...	1540	18	11.0	105
SEP.				
13...	1355	17	9.0	105

SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	UIS- CHARGE (CFS)	TEMPER- ATURE (DEG F)	SPE- CIFIC CON- DUCTI- ANCE (MICRO- MHOS)
COLORADO RIVER BASIN--Continued				
SAN JUAN RIVER BASIN				
09376900	SPRING CREEK ABOVE DIVERSIONS, NEAR MONTICELLO, UTAH (LAT 37°55'10", LONG 109°26'03")			
SEP., 1971				
02...	1350	.04	19.0	290
OCT.				
07...	1150	.01	10.0	300
NOV.				
04...	1530	.20	8.0	260
APR., 1972				
04...	--	.30	23.0	260
MAY				
02...	1163	1.2	14.5	220
JUNE				
08...	1130	6.7	11.0	210
13...	1000	4.9	10.0	210
22...	1000	2.0	16.5	220
JULY				
05...	0950	.50	12.0	250
AUG.				
01...	1100	.10	18.5	270
09378630	RECAPTURE CREEK NEAR BLANDING, UTAH (LAT 37°45'20", LONG 109°28'33")			
SEP., 1971				
02...	0930	.02	13.5	280
NOV.				
03...	0915	.04	7.0	270
DEC.				
02...	1030	.02	17.0	300
MAR., 1972				
22...	1555	1.1	8.5	160
APR.				
05...	--	.50	22.0	200
MAY				
02...	1400	1.1	12.0	180
JUNE				
08...	1600	.20	20.2	200
JULY				
05...	1430	.01	20.0	200
AUG.				
02...	1335	.01	29.0	240
09378700	COTTONWOOD WASH NEAR BLANDING, UTAH (LAT 37°33'38", LONG 109°34'41")			
NOV., 1971				
03...	1800	1.4	11.0	570
DEC.				
08...	1030	.20	.0	320
JAN., 1972				
05...	0915	.50	.0	1050
FEB.				
29...	1000	1.3	20.0	570
APR.				
05...	--	1.1	22.5	620
MAY				
02...	1130	.10	17.0	750
JUNE				
23...	1200	9.14	20.5	360
SEP.				
07...	1630	6.6	24.0	300
VIRGIN RIVER BASIN				
09404450	EAST FORK VIRGIN RIVER NEAR GLENDALE, UTAH (LAT 37°20'19", LONG 112°36'13")			
AUG., 1971				
18...	1100	9.3	14.0	500
NOV.				
23...	1225	14	4.5	485
JAN., 1972				
04...	1245	11	.0	565
19...	1430	17	5.0	460
FEB.				
07...	1220	14	3.5	570
MAR.				
13...	1100	15	4.5	575
APR.				
18...	1620	10	9.0	500
MAY				
26...	0940	9.9	10.0	450
AUG.				
02...	1305	7.7	28.0	440
SEP.				
13...	1445	8.3	16.0	465

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS- CHARGE (GFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MMHS)
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COLORADO RIVER BASIN--Continued

VIRGIN RIVER BASIN--Continued
09405500 NORTH FORK VIRGIN RIVER NEAR SPRINGDALE, UTAH
(LAT 37°12'35", LONG 112°58'40")

AUG., 1971				
16...	1435	32	22.0	900
SEP.				
22...	1350	58	14.0	685
NOV.				
22...	1120	44	6.0	740
JAN., 1972				
03...	1145	44	1.5	760
APR.				
17...	1350	78	11.0	500
MAY				
25...	1155	41	14.0	710
AUG.				
15...	1210	65	17.5	780
SEP.				
15...	1145	28	13.0	715

09406300 KANARRA CREEK AT KANARRAVILLE, UTAH (LAT 37°32'13", LONG 113°10'00")

AUG., 1971				
02...	1130	2.1	17.0	340
SEP.				
15...	1440	2.1	6.0	345
OCT.				
21...	1400	2.2	8.0	380
NOV.				
30...	1210	1.2	2.5	380
FEB., 1972				
01...	1120	3.1	1.0	460
MAR.				
17...	1400	3.0	11.5	460
APR.				
19...	1020	2.9	3.5	460
JUNE				
13...	1100	2.3	12.0	415
JULY				
18...	1220	1.8	19.0	380
AUG.				
15...	0945	1.9	13.0	380
SEP.				
18...	1505	2.0	10.5	320

09406700 SOUTH ASH CREEK BELOW MILL CREEK, NEAR PINTURA, UTAH
(LAT 37°21'50", LONG 113°20'01")

AUG., 1971				
02...	1355	1.9	17.0	200
SEP.				
15...	1630	1.1	16.0	205
OCT.				
15...	1510	1.2	11.0	245
MAR., 1972				
15...	0915	3.4	5.0	220
APR.				
19...	1230	2.7	5.0	225
MAY				
23...	1405	26	15.0	240
AUG.				
01...	0945	.90	17.0	225
SEP.				
11...	1515	1.0	15.5	250

09408000 LEEDS CREEK NEAR LEEDS, UTAH (LAT 37°16'03", LONG 113°22'12")

AUG., 1971				
02...	1540	4.1	19.0	240
SEP.				
15...	1940	3.7	--	245
OCT.				
20...	1100	3.0	6.0	300
NOV.				
22...	1640	3.0	6.0	260
JAN., 1972				
04...	1505	4.0	.0	235
FEB.				
10...	1410	3.4	3.5	275
MAR.				
15...	1045	2.9	7.0	300
APR.				
19...	1420	3.0	8.0	300
MAY				
23...	1210	2.6	13.5	305
JULY				
06...	1140	2.8	21.0	230
AUG.				
01...	1130	2.3	22.0	235

SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
COLORADO RIVER BASIN--Continued				
VIRGIN RIVER BASIN--Continued				
09408150	VIRGIN RIVER NEAR HURRICANE, UTAH (LAT 37°09'45", LONG 113°23'42")			
AUG., 1971				
05...	1445	247	20.0	1700
SEP.				
16...	1830	74	24.5	4000
NOV.				
23...	0900	159	7.0	1850
FEB., 1972				
10...	1250	145	8.0	2000
MAR.				
17...	0935	113	11.5	2200
JULY				
06...	0830	52	21.0	3500
09408400	SANTA CLARA RIVER NEAR PINE VALLEY, UTAH (LAT 37°23'00", LONG 113°28'57")			
AUG., 1971				
03...	1440	3.2	19.0	90
SEP.				
17...	1135	2.3	12.0	100
OCT.				
14...	1235	1.9	--	135
NOV.				
24...	1215	2.8	3.0	108
JAN., 1972				
06...	1250	3.4	.0	140
FEB.				
07...	1450	1.8	1.0	110
MAR.				
15...	1325	8.6	6.0	75
APR.				
20...	1510	5.9	6.5	80
MAY				
22...	1405	7.2	10.5	85
JULY				
05...	1420	3.0	20.0	100
AUG.				
01...	1440	2.1	20.0	120
SEP.				
15...	1120	1.6	17.5	130
09409880	SANTA CLARA RIVER AT GUNLOCK, UTAH (LAT 37°16'55", LONG 113°46'00")			
AUG., 1971				
03...	1235	3.7	26.0	390
SEP.				
16...	1330	6.8	22.5	445
OCT.				
14...	1655	3.6	24.0	470
NOV.				
24...	1015	13	7.0	380
FEB., 1972				
15...	1040	8.5	6.0	440
MAR.				
02...	1530	16	11.0	360
APR.				
17...	1620	8.4	14.0	345
MAY				
24...	1135	4.8	19.0	350
JULY				
05...	1830	6.2	26.0	255
AUG.				
03...	1310	3.0	27.0	290
SEP.				
12...	1205	6.0	--	420
09410100	SANTA CLARA RIVER BELOW WINDSOR DAM, NEAR SANTA CLARA, UTAH (LAT 37°11'18", LONG 113°46'01")			
MAR., 1972				
16...	1325	16	15.0	430
APR.				
18...	1235	14	--	430
MAY				
24...	1245	12	17.5	470
JULY				
05...	1710	10	28.0	400
AUG.				
03...	1410	6.0	27.0	300
09410400	SANTA CLARA RIVER NEAR SANTA CLARA, UTAH (LAT 37°08'23", LONG 113°41'31")			
AUG., 1971				
04...	0920	7.0	21.0	580
SEP.				
16...	1510	13	26.5	610
FEB., 1972				
09...	1555	.50	12.0	2000
MAR.				
16...	1445	13	19.5	615
APR.				
17...	1355	17	19.5	540
MAY				
24...	1550	10	17.0	640
JULY				
05...	2040	8.4	27.0	520
AUG.				
02...	1105	11	24.0	580

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG °F)	SPECIFIC CONDUCT- ANCE (MICRO- MOS)
THE GREAT BASIN				
WEBER RIVER BASIN				
10128200 SOUTH FORK WEBER RIVER NEAR OAKLEY, UTAH (LAT 40°44'55", LONG 111°13'08")				
AUG., 1971				
13...	1445	15	13.0	300
SEP.				
14...	1145	13	8.5	260
OCT.				
26...	1020	12	3.5	300
DEC.				
03...	1050	12	1.0	285
JAN., 1972				
06...	1345	10	2.0	300
FEB.				
10...	1545	12	.0	235
MAR.				
08...	1135	11	4.0	325
APR.				
11...	1055	25	6.0	185
MAY				
05...	1120	49	6.5	270
JUNE				
07...	1255	154	7.5	190
22...	1025	33	8.0	220
JULY				
26...	1340	18	13.5	315
AUG.				
29...	1120	14	9.0	330
10128500 WEBER RIVER NEAR OAKLEY, UTAH (LAT 40°44'10", LONG 111°14'45")				
AUG., 1971				
27...	1350	126	14.5	240
SEP.				
28...	1120	75	3.5	285
OCT.				
26...	1250	80	3.5	290
NOV.				
29...	1130	72	.5	260
DEC.				
28...	1400	71	.0	285
JAN., 1972				
27...	1045	64	.0	240
FEB.				
28...	0915	58	.0	290
MAR.				
28...	1115	125	.0	290
APR.				
26...	1410	267	7.0	270
MAY				
25...	1720	842	9.5	170
JUNE				
07...	1140	1530	7.0	110
22...	1225	376	11.5	185
JULY				
26...	1510	126	18.0	260
AUG.				
28...	1215	91	13.0	270
10129300 WEBER RIVER NEAR PEOA, UTAH (LAT 40°45'04", LONG 111°22'11")				
SEP., 1971				
21...	--	125	7.0	320
OCT.				
26...	--	96	6.0	390
DEC.				
20...	--	104	.0	380
FEB., 1972				
09...	--	82	.0	370
MAR.				
27...	--	69	.0	360
APR.				
28...	--	96	7.0	330
JULY				
28...	--	98	15.0	380
AUG.				
31...	--	84	11.0	390
10129350 CRANDALL CREEK NEAR PEOA, UTAH (LAT 40°46'30", LONG 111°21'51")				
SEP., 1971				
21...	--	.40	6.0	430
OCT.				
03...	--	.60	.0	515
MAR., 1972				
27...	--	2.3	.0	570
APR.				
28...	--	15	6.0	390
AUG.				
01...	--	.40	19.0	405

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG F)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
THE GREAT BASIN--Continued				
WEBER RIVER BASIN--Continued				
10130500	WEBER RIVER NEAR COALVILLE, UTAH (LAT 40°53'43", LONG 111°24'04")			
OCT., 1971				
05...	--	165	14.0	330
NOV.				
08...	--	177	8.0	395
DEC.				
20...	--	184	.0	380
FEB., 1972				
09...	--	186	.0	410
MAR.				
24...	--	220	7.0	380
APR.				
27...	--	212	10.0	380
10130700	EAST FORK CHALK CREEK NEAR COALVILLE, UTAH (LAT 40°57'28", LONG 111°06'50")			
MAY., 1972				
24...	--	11	10.0	430
APR.				
27...	--	30	3.5	440
10131000	CHALK CREEK AT COALVILLE, UTAH (LAT 40°55'14", LONG 111°24'03")			
OCT., 1971				
05...	--	34	9.5	570
NOV.				
08...	--	53	3.0	630
DEC.				
20...	--	31	.0	620
FEB., 1972				
09...	--	21	6.0	560
MAR.				
24...	--	120	10.0	540
APR.				
27...	--	213	5.5	530
10133700	THREEMILE CREEK NEAR PARK CITY, UTAH (LAT 40°43'32", LONG 111°33'44")			
SEP., 1971				
14...	--	16	11.5	420
NOV.				
03...	--	1.5	3.5	500
APR., 1972				
28...	--	5.4	10.5	480
JULY				
28...	--	21	10.0	460
10134500	EAST CANYON CREEK NEAR MORGAN, UTAH (LAT 40°55'21", LONG 111°36'23")			
DEC., 1971				
22...	--	41	1.0	500
FEB., 1972				
07...	--	54	2.5	480
MAR.				
23...	--	247	4.5	460
APR.				
27...	--	159	6.0	490
JULY				
20...	--	71	10.5	490
10137500	SOUTH FORK OGDEN RIVER NEAR HUNTSVILLE, UTAH (LAT 41°16'07", LONG 111°40'24")			
SEP., 1971				
29...	--	57	12.0	370
NOV.				
10...	--	51	6.5	380
DEC.				
21...	--	97	--	380
FEB., 1972				
08...	--	64	3.0	310
MAR.				
23...	--	427	4.5	260
APR.				
26...	--	392	8.5	250
JULY				
26...	--	100	15.0	300

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG F)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
THE GREAT BASIN--Continued				
WEBER RIVER BASIN--Continued				
10137680	NORTH FORK OGDEN RIVER NEAR EDEN, UTAH (LAT 41°23'23", LONG 111°54'51")			
SEP.. 1971	--			
29...	--	3.9	6.5	125
NOV..				
10...	--	4.1	.0	130
DEC..				
21...	--	3.8	.0	115
FEB.. 1972				
08...	--	4.0	.0	110
MAR..				
22...	--	29	--	70
APR..				
26...	--	25	7.0	80
JULY				
25...	--	5.5	13.0	130
10137780	MIDDLE FORK OGDEN RIVER ABOVE DIVERSIONS, NEAR HUNTSVILLE, UTAH (LAT 41°19'59", LONG 111°44'04")			
SEP.. 1971				
29...	--	2.6	7.0	280
NOV..				
10...	--	3.2	.0	285
MAR.. 1972				
22...	--	128	--	100
APR..				
26...	--	132	7.0	120
JULY				
26...	--	21	19.0	255
10139300	WHEELER CREEK NEAR HUNTSVILLE, UTAH (LAT 41°15'14", LONG 111°50'32")			
SEP.. 1971				
29...	--	1.9	7.0	425
NOV..				
10...	--	1.6	6.0	430
DEC..				
21...	--	1.6	.0	400
FEB.. 1972				
08...	--	2.3	4.0	400
MAR..				
22...	--	25	3.0	210
APR..				
26...	--	24	5.0	310
JULY				
27...	--	5.1	11.0	360
10141000	WEBER RIVER NEAR PLAIN CITY, UTAH (LAT 41°16'42", LONG 112°05'28")			
SEP.. 1971				
28...	--	180	12.5	600
NOV..				
05...	--	483	7.0	600
FEB.. 1972				
04...	--	599	.0	530
MAR..				
20...	--	1690	7.0	370
APR..				
24...	--	2460	9.0	370
JULY				
15...	--	67	20.0	590
JORDAN RIVER BASIN				
10146000	SALT CREEK AT NEPHI, UTAH (LAT 39°42'46", LONG 111°48'13")			
AUG.. 1971				
01...	--	18	--	800
SEP..				
02...	1350	19	12.5	740
OCT..				
21...	1225	18	8.5	790
DEC..				
02...	1230	12	2.0	950
JAN.. 1972				
06...	1305	13	1.0	1000
FEB..				
17...	1015	12	5.5	1075
MAR..				
29...	1415	20	3.5	960
APR..				
20...	1530	23	12.0	940
MAY				
24...	0840	32	7.0	800
JUNE				
21...	2020	21	16.5	975
JULY				
20...	1435	11	19.0	1320
AUG..				
15...	1425	7.7	20.0	1325
SEP..				
22...	0930	9.4	8.5	1300

SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

				SPE- CIFIC CON- DUCT- ANCE (MICRO- MHO)
DATE	TIME	DIST- CHARGE (CFS)	TEMPER- ATURE (DEG C)	
THE GREAT BASIN--Continued				
JORDAN RIVER BASIN--Continued				
10148200	TIE FORK NEAR SOLDIER SUMMIT, UTAH (LAT 39°57'00", LONG 111°12'58")			
AUG., 1971				
06...	0940	5.7	11.0	540
30...	1430	4.6	14.0	560
SEP.				
27...	1345	3.8	11.5	620
NOV.				
02...	1010	3.9	2.0	640
DEC.				
13...	0955	2.9	.0	600
JAN., 1972				
25...	1045	2.0	.0	630
MAR.				
13...	1020	5.4	5.0	620
APR.				
17...	1055	7.7	9.0	590
MAY				
15...	1125	7.2	9.5	590
AUG.				
09...	1000	4.1	10.5	570
30...	0840	3.8	8.5	600
10148400	NEBO CREEK NEAR THISTLE, UTAH (LAT 39°52'18", LONG 111°34'10")			
AUG., 1971				
17...	--	7.8	--	390
SEP.				
16...	1245	8.1	10.0	385
OCT.				
22...	1055	7.8	4.5	410
DEC.				
02...	1715	8.0	3.0	425
JAN., 1972				
07...	1155	9.3	1.0	460
FEB.				
16...	1230	7.6	5.5	425
MAR.				
28...	1710	18	5.0	405
APR.				
24...	1750	18	11.5	400
MAY				
20...	1305	15	12.5	390
JUNE				
22...	1220	9.8	14.0	440
JULY				
17...	1835	6.4	20.0	400
AUG.				
14...	1825	6.8	18.0	390
SEP.				
18...	1845	6.1	14.5	405
10148500	SPANISH FORK AT THISTLE, UTAH (LAT 39°59'58", LONG 111°29'55")			
AUG., 1971				
17...	1725	47	18.5	520
SEP.				
16...	1435	44	13.5	500
OCT.				
22...	1250	64	6.5	520
DEC.				
03...	1145	58	2.0	510
JAN., 1972				
06...	1635	58	.5	520
FEB.				
16...	1405	60	4.5	550
APR.				
03...	1540	77	10.0	590
24...	1645	96	14.0	530
MAY				
24...	1455	133	13.0	410
JUNE				
22...	1500	65	16.0	570
JULY				
17...	1740	33	23.0	530
AUG.				
14...	1655	33	19.5	480
SEP.				
18...	1705	34	15.5	480

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG F)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
THE GREAT BASIN--Continued				
JORDAN RIVER BASIN--Continued				
10150500	SPANISH FORK AT CASTILLA, UTAH (LAT 40°02'59", LONG 111°32'50")			
AUG., 1971				
17...	1535	40	19.0	380
SEP.				
16...	1430	88	14.0	650
OCT.				
22...	1400	86	9.0	660
DEC.				
02...	1630	60	2.5	755
JAN., 1972				
06...	1530	84	3.0	750
FEB.				
16...	1530	89	8.0	760
APR.				
03...	1705	136	11.5	650
24...	1530	182	14.5	590
MAY				
24...	1715	566	14.0	395
JUNE				
22...	1700	500	17.0	400
JULY				
17...	1555	334	21.0	410
AUG.				
14...	1540	447	20.0	360
SEP.				
18...	1555	129	16.0	495
10152000	SPANISH FORK NEAR LAKE SHORE, UTAH (LAT 40°09'30", LONG 111°43'50")			
JULY, 1972				
31...	1430	.80	29.0	1290
SEP.				
08...	1015	6.4	16.4	1190
10152500	HOBBLE CREEK NEAR SPRINGVILLE, UTAH (LAT 40°09'29", LONG 111°31'36")			
AUG., 1971				
17...	1155	17	12.0	405
SEP.				
15...	1700	17	13.5	415
OCT.				
21...	1840	18	9.0	440
DEC.				
02...	1300	20	3.5	450
JAN., 1972				
04...	1620	13	2.5	400
FEB.				
15...	1750	19	5.0	430
APR.				
03...	1305	46	8.5	380
24...	1215	70	9.5	320
MAY				
25...	1410	42	13.5	320
JUNE				
22...	2005	26	14.0	395
JULY				
17...	1130	19	13.0	420
AUG.				
14...	1100	13	14.0	420
SEP.				
18...	1220	12	13.0	380
10152700	MAPLE CREEK NEAR MAPLETON, UTAH (LAT 40°08'01", LONG 111°30'23")			
AUG., 1971				
17...	1310	2.1	10.5	340
SEP.				
15...	1545	1.5	9.0	340
OCT.				
22...	1515	1.4	6.0	350
DEC.				
02...	1450	1.4	3.0	275
FEB., 1972				
16...	1705	1.2	3.0	340
APR.				
03...	1355	1.4	5.5	330
24...	1340	2.3	7.0	275
MAY				
25...	1540	2.0	9.5	230
JUNE				
22...	1840	1.1	10.0	340
JULY				
17...	1330	1.1	11.5	330
AUG.				
14...	1230	1.2	11.5	290
SEP.				
18...	1340	1.0	9.5	300

SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DISE- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
THE GREAT BASIN--Continued				
JORDAN RIVER BASIN--Continued				
10153800	NORTH FORK PROVO RIVER NEAR KAMAS, UTAH (LAT 40°35'48", LONG 111°05'48")			
AUG., 1971				
12...	1000	29	10.0	50
SEP.				
10...	1010	7.9	8.0	<50
OCT.				
05...	--	7.1	--	<50
NOV.				
19...	1150	6.4	.0	<50
MAR., 1972				
20...	1230	19	2.5	60
APR.				
26...	1020	44	2.0	60
JUNE				
02...	1300	296	7.0	<50
13...	1610	210	12.0	<50
JULY				
05...	1820	43	15.0	<50
AUG.				
08...	1200	21	14.5	<50
SEP.				
11...	1310	4.9	12.0	<50
10154000	SHINGLE CREEK NEAR KAMAS, UTAH (LAT 40°36'45", LONG 111°06'57")			
AUG., 1971				
12...	0850	4.2	8.5	<50
SEP.				
10...	1140	3.4	8.0	<50
OCT.				
05...	--	4.2	--	<50
NOV.				
19...	1400	4.2	.0	<50
MAR., 1972				
20...	1650	7.4	3.0	<50
APR.				
26...	1220	17	3.0	<50
MAY				
25...	1250	71	7.5	<50
JUNE				
13...	1505	68	12.0	<50
JULY				
05...	1540	11	15.5	<50
AUG.				
08...	1440	4.0	17.0	<50
SEP.				
11...	1430	2.8	11.5	<50
10154200	PROVO RIVER NEAR WOODLAND, UTAH (LAT 40°33'20", LONG 111°10'05")			
AUG., 1971				
12...	1150	122	12.0	100
SEP.				
09...	1800	102	14.5	165
OCT.				
06...	--	87	--	230
NOV.				
18...	1420	61	2.0	230
DEC.				
28...	1425	69	3.0	220
JAN., 1972				
27...	--	72	--	195
FEB.				
28...	1310	67	5.0	190
MAR.				
28...	1420	170	2.0	155
APR.				
25...	1915	262	4.0	125
MAY				
17...	1420	1270	7.0	80
JULY				
05...	1410	268	15.0	115
AUG.				
08...	1700	89	19.0	185
SEP.				
11...	1700	54	14.0	275

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
 SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
THE GREAT BASIN--Continued				
JORDAN RIVER BASIN--Continued				
10155000	PROVO RIVER NEAR HAILSTONE, UTAH (LAT 40°36'03", LONG 111°21'35")			
SEP., 1971				
10...	1445	115	16.5	195
OCT.				
06...	1405	109	10.0	220
NOV.				
18...	1630	114	.5	220
DEC.				
01...	1605	91	18.5	190
28...	--	126	.0	260
FEB., 1972				
10...	1205	106	.0	255
MAR.				
08...	1520	150	7.0	220
APR.				
11...	1600	543	6.5	185
MAY				
05...	1550	968	7.0	145
JUNE				
02...	1045	1600	8.0	75
JULY				
06...	0930	300	14.0	125
AUG.				
09...	1100	54	17.0	205
SEP.				
12...	0945	57	10.0	245
10159500	PROVO RIVER BELOW DEER CREEK DAM, UTAH (LAT 40°24'12", LONG 111°31'44")			
AUG., 1971				
19...	1220	529	12.0	285
SEP.				
17...	1345	396	14.0	220
OCT.				
20...	--	254	11.0	390
NOV.				
18...	0920	370	7.5	395
DEC.				
27...	1500	415	3.5	251
FEB., 1972				
09...	1650	278	2.5	480
MAR.				
21...	1110	360	4.0	455
APR.				
14...	1230	332	6.5	400
25...	1410	503	7.0	410
MAY				
24...	1440	795	12.0	295
JUNE				
08...	1605	1080	14.5	240
JULY				
06...	1240	567	11.0	210
AUG.				
09...	1300	523	13.0	305
SEP.				
12...	1250	406	16.5	345
10160800	NORTH FORK PROVO RIVER AT WILDWOOD, UTAH (LAT 40°22'14", LONG 111°33'59")			
AUG., 1971				
19...	1450	13	11.0	260
SEP.				
17...	1140	11	6.5	260
OCT.				
20...	1645	7.6	6.5	290
NOV.				
17...	1540	6.5	3.5	290
DEC.				
27...	1425	7.5	3.0	340
FEB., 1972				
09...	1345	4.3	3.5	320
MAR.				
21...	0930	13	4.0	335
APR.				
25...	1200	17	5.0	270
MAY				
24...	0955	29	7.0	240
JUNE				
08...	1335	61	8.5	245
JULY				
06...	1510	23	12.0	220
AUG.				
09...	1535	14	13.0	290
SEP.				
08...	1330	10	11.0	305

SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
THE GREAT BASIN--Continued				
JORDAN RIVER BASIN--Continued				
10163000	PROVO RIVER AT PROVO, UTAH (LAT 40°14'16", LONG 111°41'55")			
JULY, 1972				
31...	1535	3.7	22.6	440
SEP.				
08...	0900	22	13.7	380
10164500	AMERICAN FORK ABOVE UPPER POWERPLANT, NEAR AMERICAN FORK, UTAH (LAT 40°26'52", LONG 111°40'53")			
AUG., 1971				
19...	1700	36	14.0	400
SEP.				
17...	1600	28	9.0	400
OCT.				
20...	1400	23	6.0	460
NOV.				
17...	1325	21	3.0	450
DEC.				
29...	1525	19	3.0	480
FEB., 1972				
09...	1045	14	3.0	505
MAR.				
21...	1420	37	8.5	405
APR.				
25...	1030	76	6.0	390
MAY				
23...	1630	147	8.0	265
JUNE				
08...	1050	198	9.0	260
JULY				
07...	1315	67	13.0	305
AUG.				
09...	1745	31	16.0	410
SEP.				
08...	1040	23	10.5	460
10166430	WEST CANYON NEAR CEDAR FORT, UTAH (LAT 40°24'24", LONG 112°06'03")			
AUG., 1971				
23...	1510	2.7	18.5	390
SEP.				
23...	1610	.90	12.0	480
OCT.				
22...	1410	1.0	9.0	490
NOV.				
17...	1135	1.2	3.5	490
DEC.				
27...	1050	1.1	2.0	520
FEB., 1972				
08...	1440	.70	4.5	445
MAR.				
22...	1220	4.3	10.5	530
APR.				
24...	1550	6.5	11.5	520
MAY				
19...	1045	12	9.5	240
JUNE				
06...	1550	13	14.0	380
23...	1440	5.8	19.0	430
JULY				
24...	1205	1.9	17.0	490
AUG.				
24...	1205	1.3	17.0	470
SEP.				
06...	1330	2.0	17.5	510

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	UIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCTI- ANCE (MICRO- MHOS)
THE GREAT BASIN--Continued				
JORDAN RIVER BASIN--Continued				
10170500	SURPLUS CANAL AT SALT LAKE CITY, UTAH (LAT 40°43'37", LONG 111°55'33")			
AUG., 1971				
17...	1430	224	20.0	1750
SEP.				
02...	1305	284	17.0	1710
16...	1030	234	13.0	1500
OCT.				
04...	1630	263	14.0	1700
19...	1030	155	9.0	1550
NOV.				
01...	1230	237	8.0	1900
16...	1415	224	8.0	1750
DEC.				
01...	1045	330	6.0	1600
14...	1105	303	3.5	1520
JAN., 1972				
03...	1550	389	3.0	1650
18...	1440	461	5.0	1420
FEB.				
01...	1300	459	4.0	1460
14...	1350	468	5.5	1400
29...	1430	490	8.0	1550
MAR.				
15...	1420	551	11.0	1350
31...	1210	444	8.5	1480
APR.				
19...	1220	646	8.5	1210
MAY				
02...	1455	267	12.5	1280
18...	1510	485	13.0	840
JUNE				
05...	1455	735	14.0	900
19...	1455	442	16.5	1310
JULY				
03...	1300	229	19.0	1500
20...	1600	261	21.5	1800
AUG.				
03...	1550	260	21.5	1550
16...	1545	313	22.0	1500
SEP.				
05...	1315	402	17.5	1750
14...	1120	192	15.0	1800

10171000 JORDAN RIVER AT SALT LAKE CITY, UTAH (LAT 40°43'39", LONG 111°55'26")

AUG., 1971				
17...	1500	164	20.0	1750
SEP.				
02...	1415	174	17.0	1600
16...	1500	184	14.5	1500
OCT.				
04...	1630	177	14.0	1700
19...	1050	177	9.0	1650
NOV.				
01...	1230	156	8.0	1900
16...	1415	152	8.0	1750
DEC.				
01...	1045	167	6.0	1600
14...	1105	160	3.5	1520
JAN., 1972				
03...	1550	161	3.0	1650
18...	1440	170	5.0	1420
FEB.				
01...	1300	168	4.0	1460
14...	1350	167	5.5	1400
29...	1430	177	8.0	1550
MAR.				
15...	1420	186	11.0	1350
31...	1210	137	8.5	1480
APR.				
19...	1150	34	9.5	1300
MAY				
02...	1455	105	12.5	1280
18...	1510	161	13.0	840
JUNE				
05...	1455	134	14.0	900
19...	1455	122	16.5	1310
JULY				
03...	1300	134	19.0	1500
20...	1600	146	21.5	1800
AUG.				
03...	1550	152	21.5	1550
16...	1545	124	22.0	1500
SEP.				
05...	1315	170	17.5	1750
14...	1120	176	15.0	1800

SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICHO- MMOS)
THE GREAT BASIN--Continued				

RUSH VALLEY

10172700 VERNON CREEK NEAR VERNON, UTAH (LAT 39°58'46", LONG 112°22'46")

AUG., 1971				
24...	1620	4.9	10.0	270
SEP.				
22...	1530	4.3	7.5	340
OCT.				
21...	1250	3.7	6.0	320
DEC.				
02...	1040	3.4	3.5	300
30...	1145	3.3	3.0	290
FEB., 1972				
17...	1015	3.3	4.5	310
APR.				
04...	1105	4.3	7.0	340
MAY				
03...	1435	8.7	10.0	340
31...	1325	19	9.5	215
JUNE				
23...	1155	12	9.5	185
JULY				
25...	1420	5.3	12.0	315
AUG.				
24...	1630	4.6	10.0	300

TOOELE VALLEY

10172800 SOUTH WILLOW CREEK NEAR GRANTSVILLE, UTAH
(LAT 40°29'47", LONG 112°34'25")

SEP., 1971				
14...	1435	2.2	16.5	480
OCT.				
19...	1300	2.4	11.0	460
DEC.				
06...	1230	2.7	1.0	420
FEB., 1972				
10...	1120	3.6	.0	455
MAR.				
27...	1745	3.0	5.5	480
APR.				
27...	1805	2.8	12.0	480
MAY				
22...	1415	2.6	12.5	395
JUNE				
20...	1100	2.5	17.5	480
JULY				
14...	1150	2.3	16.0	460
AUG.				
16...	1345	2.0	19.0	410
SEP.				
21...	1835	1.8	13.0	440

GREAT SALT LAKE DESERT

10172870 TROUT CREEK NEAR CALLAO, UTAH (LAT 39°44'39", LONG 113°53'21")

SEP., 1971				
21...	1055	2.4	5.5	95
OCT.				
19...	1840	2.2	4.5	85
NOV.				
30...	1630	1.9	.5	82
JAN., 1972				
03...	1405	1.8	.0	75
FEB.				
10...	1605	2.1	.0	85
MAR.				
07...	1050	2.4	4.0	85
APR.				
13...	1700	3.4	2.0	85
MAY				
23...	1255	7.5	9.0	72
JUNE				
19...	1600	6.2	12.0	70
JULY				
19...	1555	2.1	12.0	80
AUG.				
17...	1030	1.5	11.5	80
SEP.				
11...	1905	1.5	11.0	80

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
THE GREAT BASIN--Continued				
SEVIER LAKE BASIN				
10173450	MAMMOTH CREEK ABOVE WEST HATCH DITCH, NEAR HATCH, UTAH (LAT 37°37'19", LONG 112°31'07")			
AUG., 1971				
18...	1245	24	12.0	175
SEP.				
17...	1100	18	7.0	210
JAN., 1972				
18...	1440	8.8	1.0	240
FEB.				
17...	1000	12	.0	215
MAR.				
22...	1000	14	5.0	260
MAY				
02...	1400	70	9.0	180
JUNE				
06...	1210	64	9.5	195
JULY				
12...	1250	23	13.0	200
AUG.				
10...	1505	14	19.5	215
SEP.				
15...	1045	12	9.0	165
10174500	SEVIER RIVER AT HATCH, UTAH (LAT 37°39'07", LONG 112°25'47")			
AUG., 1971				
18...	1415	67	16.0	335
SEP.				
17...	0950	51	8.5	340
OCT.				
21...	1345	54	--	360
NOV.				
30...	1215	54	4.0	360
JAN., 1972				
18...	1200	55	1.0	350
FEB.				
17...	1115	52	3.0	340
MAR.				
22...	1150	69	10.5	325
MAY				
02...	1245	105	9.0	275
JUNE				
06...	1100	101	10.5	260
JULY				
12...	1150	53	15.0	320
AUG.				
10...	1420	45	18.0	360
SEP.				
15...	0945	37	9.0	340
10176300	PANGUITCH CREEK NEAR PANGUITCH, UTAH (LAT 37°46'20", LONG 112°32'00")			
SEP., 1971				
16...	1600	14	18.0	185
JAN., 1972				
18...	1015	5.1	1.0	230
FEB.				
16...	1430	2.3	1.0	190
MAR.				
22...	1440	10	13.0	180
JUNE				
06...	0930	86	12.0	225
JULY				
12...	1145	61	11.0	160
AUG.				
10...	1215	54	19.0	215
SEP.				
12...	1540	3.8	28.0	250
10180000	SEVIER RIVER NEAR CIRCLEVILLE, UTAH (LAT 38°06'15", LONG 112°20'08")			
AUG., 1971				
04...	1110	47	17.0	530
SEP.				
17...	0945	63	8.0	420
NOV.				
29...	1640	130	3.5	470
JAN., 1972				
17...	1240	100	.5	440

SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
THE GREAT BASIN--Continued				
SEVIER LAKE BASIN--Continued				
10183500	SEVIER RIVER NEAR KINGSTON, UTAH (LAT 38°12'22", LONG 112°12'25")			
SEP., 1971				
17...	1130	2.7	9.0	690
OCT.				
22...	0950	88	6.5	750
NOV.				
29...	1030	153	6.0	500
FEB., 1972				
16...	1120	142	6.0	500
MAY				
01...	1445	11	14.5	480
JULY				
11...	1500	9.6	24.0	550
SEP.				
12...	1215	19	13.5	525
10183900	EAST FORK SEVIER RIVER NEAR RUBYS INN, UTAH (LAT 37°34'33", LONG 112°15'54")			
AUG., 1971				
19...	0925	6.2	12.0	440
SEP.				
16...	1310	5.2	11.0	410
OCT.				
21...	1540	9.6	7.0	500
JAN., 1972				
10...	1320	12	.0	100
MAY				
11...	1105	7.0	7.0	460
JUNE				
14...	1345	5.2	18.0	380
JULY				
12...	1030	3.5	15.0	380
AUG.				
15...	1535	3.4	19.0	360
10185000	ANTIMONY CREEK NEAR ANTIMONY, UTAH (LAT 38°06'05", LONG 111°52'55")			
AUG., 1971				
04...	1730	20	10.0	200
SEP.				
21...	1515	16	8.0	180
OCT.				
21...	1230	16	4.0	190
DEC.				
02...	1220	17	5.0	180
JAN., 1972				
17...	1345	16	6.0	180
FEB.				
18...	1110	17	5.5	195
MAR.				
22...	1210	17	7.5	190
MAY				
02...	1055	29	6.0	140
JUNE				
07...	1115	18	9.5	180
JULY				
11...	1140	17	11.0	180
AUG.				
07...	1510	16	14.0	175
SEP.				
18...	1030	15	9.5	165
10187300	OTTER CREEK NEAR KOOSHAREM, UTAH (LAT 38°36'40", LONG 111°48'40")			
AUG., 1971				
05...	1615	13	11.0	115
SEP.				
22...	1145	10	5.0	110
OCT.				
18...	1015	9.3	1.0	115
DEC.				
01...	1145	8.9	1.0	115
JAN., 1972				
14...	1325	9.3	2.0	120
FEB.				
15...	1200	9.3	2.5	120
MAR.				
23...	1645	10	5.0	125
MAY				
08...	1200	16	6.5	100
JUNE				
08...	1250	12	10.0	120
JULY				
05...	0955	9.6	11.0	120
AUG.				
08...	1330	8.0	13.0	115
SEP.				
19...	1425	14	9.0	115

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
THE GREAT BASIN--Continued				
SEVIER LAKE BASIN--Continued				
10187500	OTTER CREEK ABOVE RESERVOIR, NEAR ANTIMONY, UTAH (LAT 38°14'59", LONG 111°57'55")			
AUG., 1971				
04...	1940	.30	11.0	740
SEP.				
22...	1000	.30	7.0	710
OCT.				
21...	1405	2.2	6.0	690
DEC.				
02...	1025	16	.0	540
JAN., 1972				
17...	1105	16	.5	355
FEB.				
18...	1320	42	1.0	380
MAR.				
22...	1025	22	7.0	400
APR.				
25...	1250	.80	9.0	570
MAY				
25...	1015	.30	7.0	690
JULY				
05...	1120	.30	9.0	740
AUG.				
07...	1135	.10	14.0	600
10189000	EAST FORK SEVIER RIVER NEAR KINGSTON, UTAH (LAT 38°11'49", LONG 112°09'01")			
AUG., 1971				
04...	1600	202	19.0	520
SEP.				
21...	1200	38	10.0	550
NOV.				
29...	1200	17	2.0	640
FEB., 1972				
16...	1010	15	4.0	590
MAR.				
22...	1820	18	10.5	600
MAY				
01...	1335	30	12.0	490
JUNE				
09...	1050	305	15.0	480
JULY				
11...	1335	234	20.0	395
AUG.				
09...	1005	31	--	470
SEP.				
12...	1125	35	13.0	450
10194000	SEVIER RIVER ABOVE CLEAR CREEK, NEAR SEVIER, UTAH (LAT 38°34'20", LONG 112°15'27")			
AUG., 1971				
03...	2030	294	19.0	500
NOV.				
02...	1210	114	4.0	510
DEC.				
13...	0945	8.7	.0	520
JAN., 1972				
18...	1210	9.8	1.0	570
FEB.				
22...	1355	24	9.0	530
MAR.				
27...	1240	59	4.5	500
MAY				
01...	1120	463	8.0	500
JUNE				
09...	1405	281	19.0	450
JULY				
07...	1300	558	19.0	450
AUG.				
09...	1400	278	22.0	495
SEP.				
20...	1055	68	12.0	500

DATE	TIME	DIST- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
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THE GREAT BASIN--Continued

SEVIER LAKE BASIN--Continued
10194200 CLEAR CREEK ABOVE DIVERSIONS, NEAR SEVIER, UTAH
(LAT 38°34'45", LONG 112°17'22")

AUG., 1971				
05...	1855	13	17.0	235
SEP.				
13...	0855	12	10.0	240
NOV.				
01...	0905	10	.0	230
DEC.				
13...	1040	9.8	.5	230
JAN., 1972				
18...	1255	13	3.0	225
FEB.				
22...	1500	12	8.0	260
MAR.				
27...	0900	11	.5	230
MAY				
01...	0930	18	4.0	255
JUNE				
09...	1500	41	13.0	150
JULY				
07...	1425	11	21.0	240
AUG.				
09...	1505	5.0	23.5	255

10205000 SEVIER RIVER NEAR SIGURD, UTAH (LAT 38°52'24", LONG 111°57'14")

SEP., 1971				
22...	1330	28	12.0	1400
NOV.				
02...	1445	122	5.0	1050
DEC.				
01...	1350	100	6.0	1350
JAN., 1972				
12...	1150	111	5.0	975
FEB.				
22...	1040	102	7.5	1175
MAR.				
23...	1500	21	11.0	1200
APR.				
23...	0950	4.0	11.0	1320
MAY				
24...	1050	2.0	14.5	1250
JULY				
25...	0915	1.5	11.5	1100
AUG.				
23...	0930	1.7	15.0	1000

10205030 SALINA CREEK NEAR EMERY, UTAH (LAT 38°54'43", LONG 111°31'47")

SEP., 1971				
01...	0720	13	8.0	380
OCT.				
01...	0740	12	2.0	450
NOV.				
11...	0720	8.8	1.5	420
DEC.				
15...	0950	6.8	1.0	420
JAN., 1972				
27...	0820	6.1	.0	400
MAR.				
15...	0900	8.0	1.5	460
APR.				
18...	1350	13	8.5	440
MAY				
17...	0730	31	4.5	400
JULY				
23...	1105	8.0	13.0	430
AUG.				
22...	1320	6.8	15.0	425

10206000 SALINA CREEK AT SALINA, UTAH (LAT 38°57'25", LONG 111°51'58")

SEP., 1971				
01...	0920	.70	15.0	6000
OCT.				
01...	0950	1.5	5.0	5200
NOV.				
11...	1025	21	4.5	1200
DEC.				
15...	1220	28	1.0	1090
JAN., 1972				
27...	0955	16	.0	1190
MAR.				
15...	1050	28	5.5	850
APR.				
18...	1620	1.7	10.0	4000
MAY				
17...	1025	25	10.0	800
JULY				
25...	1240	.40	23.0	>8000
AUG.				
22...	1450	.20	24.5	5750

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

				SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	
THE GREAT BASIN--Continued				
SEVIER LAKE BASIN--Continued				
10208500	OAK CREEK NEAR FAIRVIEW, UTAH (LAT 39°40'26", LONG 111°24'30")			
AUG., 1971				
10...	1505	3.2	15.5	400
SEP.				
02...	0810	3.0	9.5	405
OCT.				
04...	1005	2.6	4.0	480
NOV.				
05...	0915	2.8	3.5	405
DEC.				
14...	1025	2.5	1.0	440
JAN., 1972				
26...	0920	2.4	2.0	450
MAR.				
16...	1540	5.8	6.0	400
APR.				
20...	1135	8.6	2.5	400
MAY				
19...	0900	39	4.5	380
JUNE				
13...	0935	9.0	9.0	390
JULY				
18...	0805	2.5	11.0	400
AUG.				
24...	1020	1.7	8.0	420
10210000	PLEASANT CREEK NEAR MOUNT PLEASANT, UTAH (LAT 39°32'35", LONG 111°23'00")			
AUG., 1971				
10...	1355	12	14.5	395
SEP.				
01...	1615	10	14.0	380
OCT.				
04...	1200	8.9	7.5	460
NOV.				
05...	1300	9.8	4.0	300
DEC.				
14...	1300	10	4.5	440
JAN., 1972				
26...	1115	9.5	5.5	440
MAR.				
16...	1320	9.6	9.0	440
APR.				
20...	1255	12	8.0	420
MAY				
18...	1245	36	9.5	350
JUNE				
12...	1445	48	15.0	320
JULY				
17...	1215	11	14.5	385
AUG.				
23...	1445	8.7	14.0	400
10215700	OAK CREEK NEAR SPRING CITY, UTAH (LAT 39°26'52", LONG 111°25'29")			
AUG., 1971				
09...	1610	8.0	13.5	360
SEP.				
01...	1510	6.8	11.5	360
29...	1535	4.9	6.5	380
NOV.				
05...	1125	4.5	3.5	340
DEC.				
14...	1605	4.3	.5	390
JAN., 1972				
26...	1310	3.9	1.5	420
MAR.				
16...	1100	4.0	4.5	420
APR.				
20...	0630	4.2	.5	400
MAY				
18...	1025	20	4.0	350
JUNE				
18...	1325	22	10.5	330
AUG.				
23...	0840	4.3	6.0	400

SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG. C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHS)
THE GREAT BASIN--Continued				
SEVIER LAKE BASIN--Continued				
10215900	MANTI CREEK BELOW DUGWAY CREEK, NEAR MANTI, UTAH (LAT 39°15'33", LONG 111°34'45")			
AUG., 1971				
10...	0855	20	9.5	480
31...	1430	13	16.0	440
OCT.				
04...	1345	7.8	6.0	550
NOV.				
11...	1620	7.4	2.5	560
DEC.				
16...	1230	5.6	.5	580
JAN., 1972				
26...	1545	.68	5.0	590
MAR.				
16...	0815	.68	5.0	570
APR.				
19...	1630	14	2.5	540
MAY				
18...	0830	59	3.5	440
JULY				
27...	0835	16	11.0	490
AUG.				
21...	1455	9.0	17.0	520
10216210	SAN PITCH RIVER NEAR STERLING, UTAH (LAT 39°12'23", LONG 111°42'37")			
AUG., 1971				
09...	1820	75	22.0	1700
31...	--	71	19.0	1700
MAR., 1972				
15...	1615	40	4.5	2000
APR.				
19...	1540	77	8.0	1600
MAY				
17...	1440	56	12.5	1450
JULY				
26...	1140	69	20.0	1800
AUG.				
21...	1220	13	23.0	2000
10216400	TWELVEMILE CREEK NEAR MAYFIELD, UTAH (LAT 39°06'02", LONG 111°38'44")			
AUG., 1971				
10...	0710	28	10.0	370
31...	1705	21	17.0	340
SEP.				
30...	1400	18	7.0	380
NOV.				
11...	1225	12	4.5	415
DEC.				
16...	1015	10	.0	440
JAN., 1972				
27...	1235	10	.0	410
MAR.				
15...	1445	21	6.5	450
APR.				
19...	1340	38	5.0	460
MAY				
17...	1300	57	10.0	420
JULY				
26...	1025	16	14.0	385
AUG.				
21...	1055	13	13.0	270
10217000	SEVIER RIVER BELOW SAN PITCH RIVER, NEAR GUNNISON, UTAH (LAT 39°09'19", LONG 111°52'37")			
AUG., 1971				
31...	1945	132	18.5	2200
SEP.				
30...	1705	118	10.0	2700
NOV.				
11...	1540	243	8.5	2100
DEC.				
16...	0745	234	1.0	1900
JAN., 1972				
27...	1130	260	2.5	1900
MAR.				
15...	1240	261	9.0	1900
APR.				
19...	1140	108	8.0	3000
MAY				
17...	1120	74	14.0	2600
JULY				
27...	1030	414	12.5	3400
AUG.				
22...	1030	75	15.5	3000

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG F)	SPE- CIFIC CON- DUCTI- ANCE (MICRO- MHOS)
THE GREAT BASIN--Continued				
SEVIER LAKE BASIN--Continued				
10219000	SEVIER RIVER NEAR JUAB, UTAH (LAT 39°22'29", LONG 112°02'20")			
AUG., 1971				
18...	--	39	--	2025
SEP.				
22...	1725	32	11.0	2100
OCT.				
20...	1625	6.1	13.5	2100
DEC.				
01...	1455	2.0	5.0	2200
JAN., 1972				
05...	1120	3.5	.5	2150
FEB.				
17...	1345	5.1	9.0	2300
MAR.				
28...	1905	5.8	7.5	2350
APR.				
27...	1440	739	10.0	2300
MAY				
17...	1610	541	11.5	2300
JUNE				
20...	1800	500	16.0	2300
JULY				
18...	1750	286	20.0	2500
AUG.				
15...	1040	223	21.5	2400
SEP.				
22...	1140	3.4	15.5	2400
10219200	CHICKEN CREEK NEAR LEVAN, UTAH (LAT 39°33'03", LONG 111°49'42")			
AUG., 1971				
18...	--	3.6	--	660
SEP.				
24...	1105	3.0	7.5	700
OCT.				
21...	1000	2.6	--	740
DEC.				
01...	1650	2.8	1.0	700
JAN., 1972				
06...	1100	1.7	.5	820
FEB.				
17...	1205	2.4	5.5	790
MAR.				
29...	1155	5.4	2.5	675
APR.				
20...	1635	6.5	11.5	580
MAY				
17...	1355	4.6	18.0	600
JUNE				
20...	1635	3.4	18.0	590
JULY				
20...	1325	2.4	20.0	740
AUG.				
15...	1225	2.0	17.0	650
SEP.				
22...	1325	1.5	13.5	675
10224100	OAK CREEK ABOVE LITTLE CREEK, NEAR OAK CITY, UTAH (LAT 39°21'23", LONG 112°13'55")			
AUG., 1971				
19...	1300	.40	17.5	260
SEP.				
22...	1345	.40	9.0	260
OCT.				
20...	1605	.50	8.0	240
DEC.				
01...	1240	.80	1.5	210
JAN., 1972				
05...	1550	1.9	1.0	160
FEB.				
17...	1715	.80	3.0	210
MAR.				
28...	1715	2.4	4.5	175
APR.				
25...	1600	2.4	6.0	180
MAY				
17...	1935	1.7	11.5	170
JUNE				
21...	1640	.60	18.0	220
JULY				
18...	1420	.40	21.0	270
AUG.				
17...	1830	.20	18.0	265
SEP.				
19...	1055	.40	11.0	245

SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG °C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MOS)
THE GREAT BASIN--Continued				
PAVANT VALLEY				
10233000	MEADOW CREEK NEAR MEADOW, UTAH (LAT 38°53'29", LONG 112°19'36")			
AUG., 1971				
24...	1315	4.1	14.0	290
NOV.				
15...	1225	2.3	2.0	325
FEB., 1972				
15...	0850	2.4	.5	400
MAR.				
22...	1020	5.7	5.5	300
MAY				
03...	1030	8.5	6.0	270
JULY				
06...	1150	2.7	15.5	300
AUG.				
09...	1025	1.2	13.5	310
SEP.				
11...	1045	1.0	12.0	325
10233500	CORN CREEK NEAR KANOSH, UTAH (LAT 38°46'27", LONG 112°23'56")			
AUG., 1971				
24...	--	9.2	17.0	420
NOV.				
15...	1355	7.3	11.0	480
JAN., 1972				
03...	1135	5.0	.0	580
FEB.				
15...	1010	7.6	3.5	580
MAR.				
22...	1120	7.1	8.5	500
MAY				
03...	0845	10	--	520
JUNE				
06...	1550	7.7	25.0	540
JULY				
06...	1325	5.0	17.0	460
AUG.				
09...	1140	3.8	13.5	500
SEP.				
11...	0940	4.3	11.5	480
BEAVER RIVER BASIN				
10234500	BEAVER RIVER NEAR BEAVER, UTAH (LAT 38°16'43", LONG 112°33'32")			
AUG., 1971				
30...	--	27	--	170
SEP.				
28...	1305	21	7.0	165
NOV.				
23...	1300	16	2.5	165
JAN., 1972				
24...	1205	14	6.0	170
FEB.				
24...	0955	15	1.0	160
MAR.				
28...	1130	13	3.0	160
APR.				
27...	0940	24	4.0	180
MAY				
23...	1535	32	11.0	135
JUNE				
27...	1000	20	9.5	160
JULY				
25...	1110	18	14.5	180
AUG.				
28...	0950	16	11.0	165
SEP.				
25...	1010	13	7.0	160
10235000	SOUTH CREEK NEAR BEAVER, UTAH (LAT 38°11'25", LONG 112°33'06")			
AUG., 1971				
23...	1315	.90	18.0	140
OCT.				
07...	1505	1.0	14.5	150
NOV.				
16...	1230	1.0	.5	155
JAN., 1972				
05...	0940	1.0	.0	170
MAR.				
23...	0940	2.1	1.0	115
JUNE				
06...	1410	1.2	19.0	140
JULY				
07...	0945	.10	--	150
SEP.				
11...	1515	.20	10.0	145

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG F)	SPEC- IFIC CON- DUCT- ANCE (MICRO- MHOS)
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THE GREAT BASIN--Continued

BEAVER RIVER BASIN--Continued

10236000 NORTH FORK NORTH CREEK NEAR BEAVER, UTAH
(LAT 38°20'44", LONG 112°33'03")

AUG., 1971				
03...	1210	2.2	17.0	80
23...	1635	1.3	20.0	190
OCT.				
07...	1840	1.5	13.0	140
JAN., 1972				
04...	1630	1.8	.0	130
FEB.				
15...	1410	1.6	.5	140
MAR.				
22...	1655	3.0	10.0	100
MAY				
02...	1930	4.2	11.0	110
JUNE				
08...	1050	6.2	12.0	75
JULY				
07...	1115	1.6	14.0	85
AUG.				
08...	1945	.40	18.5	100
SEP.				
13...	0850	.80	6.0	90

10263500 SOUTH FORK NORTH CREEK NEAR BEAVER, UTAH
(LAT 38°20'19", LONG 112°32'14")

AUG., 1971				
03...	1130	6.9	14.0	145
23...	0515	5.7	18.0	160
JAN., 1972				
04...	1530	3.1	.0	220
MAR.				
22...	1535	9.2	8.0	160
MAY				
02...	1745	8.2	--	160
JUNE				
08...	0940	22	8.0	115
AUG.				
08...	1345	2.0	18.5	170

10237000 BEAVER RIVER AT ADAMSVILLE, UTAH (LAT 38°15'13", LONG 112°46'03")

SEP., 1971				
02...	1205	23	15.0	560
OCT.				
08...	1035	23	9.0	600
JAN., 1972				
04...	1055	26	.0	600
FEB.				
14...	1700	39	6.0	410
MAR.				
21...	1540	47	13.0	320
MAY				
02...	1645	.60	23.0	960
JUNE				
07...	0910	.50	13.0	1000
SEP.				
12...	1555	.02	--	840

10237500 INDIAN CREEK NEAR BEAVER, UTAH (LAT 38°25'53", LONG 112°35'13")

SEP., 1971				
02...	1405	2.0	13.0	100
JAN., 1972				
04...	1310	1.1	.0	130
FEB.				
15...	1250	2.3	.5	135
MAR.				
22...	1340	2.2	--	125
MAY				
03...	1255	1.7	9.5	140
JUNE				
07...	1725	3.2	14.0	95
JULY				
06...	1735	1.6	16.5	95
AUG.				
08...	2055	.80	15.5	120
SEP.				
11...	1320	1.0	11.5	150

SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
THE GREAT BASIN--Continued				
BEAVER RIVER BASIN--Continued				
10239000	BEAVER RIVER AT ROCKY FORD DAM, NEAR MINERSVILLE, UTAH (LAT 38°13'03", LONG 112°50'22")			
SEP., 1971				
02...	1035	47	19.0	570
OCT.				
08...	1250	4.8	15.0	600
NOV.				
15...	1330	5.4	12.5	640
JAN., 1972				
04...	0915	5.3	4.0	700
FEB.				
14...	1430	8.6	10.5	730
MAR.				
21...	1435	7.5	15.0	550
MAY				
02...	1520	70	10.0	550
JUNE				
07...	1545	74	15.0	590
JULY				
05...	1540	69	19.0	545
SEP.				
12...	1435	5.1	18.0	600

PAROWAN VALLEY

10241400	LITTLE CREEK NEAR PARAGONAH, UTAH (LAT 37°54'10", LONG 112°42'45")			
AUG., 1971				
04...	--	.80	18.0	280
SEP.				
14...	1735	.40	20.0	340
NOV.				
03...	1010	.50	1.5	410
FEB., 1972				
09...	1050	.80	.5	340
MAR.				
16...	1220	1.8	10.5	305
APR.				
20...	1000	2.0	3.0	310
MAY				
24...	1420	1.1	21.0	310
JULY				
05...	1450	.50	--	280
AUG.				
03...	1425	.10	27.0	300
SEP.				
14...	1620	.20	18.5	350
10241430	RED CREEK NEAR PARAGONAH, UTAH (LAT 37°51'25", LONG 112°40'30")			
AUG., 1971				
04...	--	.90	17.0	180
SEP.				
14...	1625	1.0	20.0	185
NOV.				
03...	1125	1.1	3.0	185
DEC.				
01...	1030	1.1	1.0	215
MAR., 1972				
16...	1010	1.4	2.0	200
MAY				
24...	1245	1.0	11.0	190
JULY				
03...	1250	.70	17.0	190
AUG.				
03...	1310	.60	15.0	200
SEP.				
14...	1515	.70	14.5	205

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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SPECIFIC CONDUCTANCE AND TEMPERATURE DATA, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHUS)
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THE GREAT BASIN--Continued

10241470 PAROWAN VALLEY--Continued
CENTER CREEK ABOVE PAROWAN CREEK, NEAR PAROWAN, UTAH
(LAT 37°47'20", LONG 112°48'40")

AUG., 1971				
04...	--	5.5	15.0	245
SEP.				
14...	1505	4.2	15.5	275
OCT.				
20...	1315	4.8	6.0	320
NOV.				
29...	1440	5.2	4.0	300
FEB., 1972				
09...	1245	3.7	2.5	330
MAR.				
16...	1330	5.2	9.0	320
APR.				
20...	1320	5.2	7.0	320
MAY				
24...	1110	4.4	8.5	320
JULY				
07...	1230	5.1	17.0	160
AUG.				
03...	1125	4.0	13.5	275
SEP.				
20...	0955	3.7	6.0	315

10241600 SUMMIT CREEK NEAR SUMMIT, UTAH (LAT 37°47'20", LONG 112°54'55")

AUG., 1971				
06...	--	3.3	18.0	380
NOV.				
20...	1140	1.4	6.0	500
29...	1605	1.8	4.0	440
FEB., 1972				
09...	1430	1.9	4.0	500
MAR.				
16...	1630	3.9	--	420
APR.				
20...	1425	4.1	9.0	420
MAY				
24...	0955	3.2	7.0	410
JULY				
07...	1105	1.3	18.0	400
AUG.				
03...	1005	.80	14.5	280
SEP.				
20...	1105	1.6	8.5	420

10242000 CEDAR CITY VALLEY
COAL CREEK NEAR CEDAR CITY, UTAH (LAT 37°40'20", LONG 113°02'02")

AUG., 1971				
06...	--	31	19.0	455
NOV.				
30...	1405	13	5.5	520
FEB., 1972				
09...	1610	12	6.5	600
MAR.				
17...	1035	23	7.0	570
APR.				
19...	1435	36	6.5	475
MAY				
12...	1615	52	13.5	380
JUNE				
13...	1415	24	22.0	395
JULY				
18...	1015	11	25.5	520
AUG.				
02...	1655	8.9	36.0	750
SEP.				
20...	1450	21	15.5	430

CHEMICAL ANALYSES, IN MILLIGRAMS PER LITER, OF GROUND WATERS IN UTAH

Well number	Geologic source 1/	Depth of well (feet)	Date of collection	Temperature (°C)	Silica (SiO ₂)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)
CENTRAL VIRGIN RIVER											
Washington County											
(C-41-17)17cba-1	JR n	-	6/12/72	17	23	65	13	13	1.8	238	0
(C-42-16)22dca-1	Qu	88	6/12/72	16	38	200	69	130	5.3	419	0
(C-43-15)25ddd-1	Qu	144	6/12/72	19	16	600	160	150	16	105	0
ESCALANTE VALLEY, BERYL-ENTERPRISE DISTRICT											
Iron County											
(C-34-16)28dcc-2	QTvf	148	5/17/72	12	58	110	23	31	8.0	164	0
(C-35-15)7dcc-2	QTvf	-	6/27/72	20.5	56	97	17	240	12	112	0
(C-35-16)9add-1	QTvf	150	5/17/72	12	49	74	14	18	5.4	196	0
(C-35-16)9add-2	QTvf	-	8/18/72	11	34	98	24	54	2.7	357	0
(C-35-16)21ddc-1	QTvf	156	6/27/72	12	44	93	18	21	5.7	216	0
(C-35-16)32dcd	QTvf	452	6/27/72	17	51	43	7.7	17	5.0	174	0
(C-36-16)5a-9	QTvf	200	7/5/72	12.5	39	220	40	29	8.5	319	0
(C-36-16)9bcd-1	QTvf	272	5/17/72	11.5	37	67	13	18	4.7	226	0
(C-36-16)16ccc-1	QTvf	347	6/27/72	14.5	37	50	8.1	17	3.7	180	0
(C-36-16)19aab-1	QTvf	352	5/17/72	10.5	-	-	-	-	-	-	-
(C-36-16)27dcc-1	QTvf	-	5/17/72	16	43	73	14	17	2.9	238	0
(C-36-16)29daa-1	QTvf	380	6/27/72	14	37	59	9.5	17	3.3	190	0
(C-36-16)31ccc-1	QTvf	222	5/17/72	10.5	-	-	-	-	-	-	-
(C-37-12)23acb-1	QTvf	300	5/12/72	-	-	-	-	-	-	-	-
(C-37-17)12bdc-1	QTvf	170	5/17/72	16	47	79	14	30	5.5	294	0
(C-37-17)14bac-1	QTvf	100	5/17/72	12.5	53	67	14	31	6.5	280	0
ESCALANTE VALLEY, MILFORD DISTRICT											
Beaver County											
(C-28-10)17ccc-1	QTvf	92	5/01/72	14	48	480	160	270	13	251	0
(C-28-10)28cdd-1	QTvf	355	9/06/72	14	49	520	170	300	14	268	0
(C-28-10)30bdc-3	QTvf	-	5/01/72	-	37	120	65	60	4.2	170	0
(C-28-11)23cbb-2	QTvf	-	5/02/72	17	39	82	22	30	4.4	131	0
(C-29-10)5cdd-5	QTvf	95	5/02/72	14	37	130	58	170	9.6	178	0
(C-29-11)1add-2	QTvf	-	5/17/72	13	33	120	24	30	5.2	275	0
(C-29-11)11cdd-2	QTvf	200	5/02/72	14	41	120	24	35	5.3	262	0
(C-29-11)11cdd-2	QTvf	90	5/18/72	14	39	210	41	68	8.0	195	0
(C-29-11)28add-2	QTvf	196	5/17/72	-	46	110	24	67	7.3	193	0
CEDAR CITY VALLEY											
Iron County											
(C-36-12)12dba-1	QTvf	600	5/12/72	-	-	-	-	-	-	-	-
(C-36-12)20aac-1	QTvf	500	5/12/72	-	-	-	-	-	-	-	-
(C-36-12)32dbb-1	QTvf	-	5/12/72	-	-	-	-	-	-	-	-
(C-37-12)34abb-1	QTvf	190	5/12/72	12	18	120	40	17	1.8	373	0
PAROWAN VALLEY											
Iron County											
(C-32-08)35bcb-1	QTvf	250	5/17/72	-	-	-	-	-	-	-	-
(C-33-08)31ccc-2	QTvf	-	5/17/72	15.5	29	55	30	28	3.0	252	0
(C-33-09)35acd-2	QTvf	500	5/17/72	13.5	28	53	29	3.2	21	265	0
(C-34-09)16cdd-2	QTvf	353	5/17/72	-	-	-	-	-	-	-	-
(C-34-10)13cbd-2	QTvf	-	5/17/72	-	-	-	-	-	-	-	-
BEAVER VALLEY											
Iron County											
(C-29-7)19bcd-1	QTvf	256	5/19/72	13	-	-	-	-	-	-	-
(C-29-8)25cae-2	QTvf	340	5/23/72	19	71	31	5.5	20	8.1	123	0
(C-29-08)31add-1	QTvf	310	5/19/72	12	-	-	-	-	-	-	-
PAVANT VALLEY											
Millard County											
(C-18-4)29bcd	QTvf	-	7/13/72	13	18	73	36	25	1.4	298	0
(C-19-4)31dbb-1	QTvf	523	7/13/72	12.5	22	100	54	45	2.1	264	0
(C-21-5)7cdd-3	QTpf	-	7/10/72	10	26	150	68	130	4.2	402	0
(C-23-6)8abd-1	QTpf	200	7/12/72	13	41	620	230	750	77	345	0
(C-23-6)9bca-1	QTpf	170	7/12/72	15	52	580	210	1,100	140	427	0
(C-23-6)9ccd-1	QTpf	136	7/12/72	13	39	570	180	700	78	326	0
(C-23-6)15bca-1	QTpf	145	7/12/72	16	55	390	100	820	110	423	0
(C-23-6)16cda-1	QTpf	205	7/12/72	13	41	490	150	790	88	410	0
(C-23-6)21add-1	QTvf	445	7/12/72	12	28	79	58	120	5.4	229	0
SEVIER DESERT											
Millard County											
(C-15-4)8cba-1	QTvf	203	7/11/72	12	28	250	120	280	8.9	353	0
(C-15-4)18daa	QTvf	406	7/11/72	14.5	29	210	110	100	9.7	262	0
(C-15-5)26baa	QTvf	860	7/11/72	16	25	32	18	23	2.1	165	0
(C-15-4)26dcc-1	QTvf	660	7/11/72	14	14	120	35	32	1.8	194	0
(C-16-8)26bdb-2	QTvf	844	7/12/72	24	31	7.9	5.6	190	1.9	240	0
UPPER SEVIER VALLEY											
Garfield County											
(C-18-1)25ddc-1	QTvf	-	5/16/72	9	-	-	-	-	-	-	-
(C-21-1)13abd-1	QTvf	-	5/16/72	19	-	-	-	-	-	-	-
(C-26-1)23ddb-1	QTvf	200	5/25/72	11.5	41	21	3.2	8.0	2.5	93	0
(C-29-2)35bad-1	QTvf	197	5/25/72	13.5	45	61	16	15	6.0	236	0
(C-32-5)35bab-1	QTvf	456	4/18/72	13	-	-	-	-	-	-	-
CENTRAL SEVIER VALLEY											
Sanpete and Sevier Counties											
(C-23-2)15dcb-4	QTvf	75	5/1/72	10	18	46	33	16	3.5	291	0
(C-23-2)19dab-1	QTvf	310	5/1/72	10.5	34	58	35	19	3.4	305	0
(C-24-2)6abc-1	QTvf	308	5/24/72	10	31	150	44	67	4.7	356	0

Well number	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)	Dis- solved solids (calc- ulated)	Hardness as CaCO ₃		Sodium ad- sorp- tion ratio (SAR)	Specific con- ductance (micromhos /cm at 25°C)	pH
					Ca, Mg	Non car- bonate			
CENTRAL VIRGIN RIVER--Continued									
Washington County--Continued									
(C-41-17)17cba-1	29	17	-	279	220	21	0.4	462	7.4
(C-42-16)22dca-1	590	76	-	1,310	780	440	2.0	1,830	7.2
(C-43-15)25ddd-1	2,100	90	-	3,180	2,200	2,100	1.4	3,440	7.3
ESCALANTE VALLEY, BERYL-ENTERPRISE DISTRICT--Continued									
Iron County--Continued									
(C-34-16)28dcc-2	77	170	-	558	370	230	0.7	980	7.5
(C-35-15)7dcc-2	590	100	-	1,170	310	220	5.9	1,680	7.3
(C-35-16)9add-1	26	64	-	347	240	82	.5	582	7.4
(C-35-16)9ddc-2	53	70	-	511	340	51	1.3	903	7.5
(C-35-16)21ddc-1	45	90	-	423	310	130	.5	724	7.4
(C-35-16)32dcd	11	20	-	240	140	0	.6	366	7.4
(C-36-16)5a-9	110	270	-	873	710	450	.5	1,530	7.0
(C-36-16)9bcd-1	18	38	-	307	220	35	.5	522	7.3
(C-36-16)16ccc-1	12	24	-	240	160	11	.6	395	7.4
(C-36-16)19aab-1	-	-	-	-	-	-	-	470	-
(C-36-16)27dcc-1	18	45	-	330	240	45	.5	558	7.5
(C-36-16)29daa-1	16	30	-	265	190	31	.5	450	7.4
(C-36-16)31ccc-1	-	-	-	-	-	-	-	590	-
(C-36-16)31ccc-1	20	25	-	311	220	15	.7	544	7.2
(C-37-12)23acb-1	-	-	-	-	-	-	-	610	-
(C-37-17)12bdc-1	22	29	-	311	250	14	.8	636	7.0
(C-37-17)14bac-1	20	29	-	358	220	0	.9	580	7.4
ESCALANTE VALLEY, MILFORD DISTRICT--Continued									
Beaver County--Continued									
(C-28-10)17ccc-1	1,000	850	-	2,940	1,900	1,700	2.7	4,330	7.0
(C-28-10)17ccc-1	1,200	920	-	3,300	2,000	1,800	2.9	4,690	7.4
(C-28-10)28cdd-1	310	160	-	840	570	430	1.1	1,310	7.6
(C-28-10)30bdc-3	140	81	-	463	300	190	.8	739	7.5
(C-28-11)23cbb-2	570	140	-	1,200	560	420	3.1	1,740	7.3
(C-29-10)5cdd-5	100	92	-	539	400	170	.7	929	7.5
(C-29-11)1add-2	83	120	-	557	400	180	.8	946	7.2
(C-29-11)11cdd-2	200	330	-	992	690	530	1.1	1,730	7.5
(C-29-11)28add-2	160	150	-	659	370	220	1.5	1,090	7.6
CEDAR CITY VALLEY--Continued									
Iron County--Continued									
(C-36-12)12dba-1	-	-	-	-	-	-	-	600	-
(C-36-12)20aac-1	-	-	-	-	-	-	-	470	-
(C-26-12)32dbb-1	-	-	-	-	-	-	-	300	-
(C-37-12)34abb-1	150	13	-	543	460	160	.3	887	7.2
PAROWAN VALLEY--Continued									
Iron County--Continued									
(C-32-08)35beb-1	-	-	-	-	-	-	-	270	-
(C-33-08)31ccc-2	40	49	-	358	260	54	.8	623	7.5
(C-33-09)35acd-2	37	28	-	330	250	34	.6	556	7.5
(C-34-09)16cdd-2	-	-	-	-	-	-	-	625	-
(C-34-10)13cbd-2	-	-	-	-	-	-	-	530	-
BEAVER VALLEY--Continued									
Iron County--Continued									
(C-29-7)19bcd-1	-	-	-	-	-	-	-	450	-
(C-29-8)25cac-2	48	4.8	-	249	100	0	.9	304	7.6
(C-29-8)31add-1	-	-	-	-	-	-	-	830	-
PAVANT VALLEY--Continued									
Millard County--Continued									
(C-18-4)29bcd	26	68	5.8	420	330	86	.6	754	7.4
(C-19-4)31dbb-1	61	200	5.1	637	470	260	.9	1,170	6.8
(C-21-5)7cdd-3	290	210	-	1,080	650	320	2.2	1,760	6.9
(C-23-6)8abd-1	1,100	2,100	-	5,090	2,500	2,200	6.5	8,050	6.7
(C-23-6)9bca-1	1,300	2,300	-	5,890	2,300	2,000	10.0	9,060	6.6
(C-23-6)9ccd-1	1,100	1,800	-	4,630	2,200	1,900	6.5	7,220	6.8
(C-23-6)15bca-1	860	1,500	-	4,040	1,400	1,000	9.6	6,580	6.9
(C-23-6)16cda-1	990	1,700	-	4,450	1,800	1,500	8.0	7,130	6.7
(C-23-6)21add-1	180	220	-	803	440	250	2.5	1,430	7.2
SEVIER DESERT--Continued									
Millard County--Continued									
(C-15-4)8cba-1	470	690	1.6	2,030	1,100	830	3.6	3,310	7.1
(C-15-4)18daa	320	450	2.1	1,370	980	760	1.4	2,270	6.9
(C-15-5)26baa	27	31	.83	244	150	19	.8	410	7.2
(C-15-4)26dcc-1	140	110	16	620	440	280	.7	1,050	7.1
(C-16-8)26bdb-2	70	140	.17	567	43	0	13	959	7.6
UPPER SEVIER VALLEY--Continued									
Garfield County--Continued									
(C-18-1)25ddc-1	-	-	-	-	-	-	-	2,100	-
(C-21-1)13abd-1	-	-	-	-	-	-	-	925	-
(C-26-1)23ddb-1	5.7	4.7	-	132	66	0	.4	175	7.7
(C-29-2)35bad-1	24	27	-	310	220	25	.4	511	7.3
(C-32-5)35bab-1	-	-	-	-	-	-	-	310	-
CENTRAL SEVIER VALLEY--Continued									
Sanpete and Sevier Counties--Continued									
(C-23-2)15dcb-4	26	21	-	307	250	12	.4	539	7.8
(C-23-2)19dab-1	54	26	-	379	290	39	.5	634	7.6
(C-24-2)6abc-1	380	26	-	878	560	260	1.2	1,290	7.2

Well number	Geologic source 1/	Depth of well (feet)	Date of collection	Temperature (°C)	Silica (SiO ₂)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)
SNAKE VALLEY											
Millard County											
(C-17-19)4add	QTVf	760	7/19/72	16	16	33	14	34	1.7	197	0
(C-18-19)20ddd-1	QTVf	90	7/19/72	-	14	28	10	25	1.9	160	0
(C-18-19)20dad-1	QTVf	100	7/19/72	-	13	55	7.9	22	.7	212	0
(C-22-19)6bac-1	QTVf	167	7/19/72	11	17	72	23	15	1.3	329	0
(C-23-19)20bac-1	QTVf	270	7/19/72	-	47	32	43	100	3.3	338	0
JUAB VALLEY											
Juab County											
(C-12-1)24baa-1	Qal	66	7/19/72	11	29	91	36	110	4.5	288	0
(C-13-1)1cdd-1	Qal	150	7/20/72	10	25	75	34	91	3.0	275	0
(D-13-1)5ddb-2	Qal	352	7/19/72	10	25	150	41	150	4.2	402	0
(C-14-1)14cac-1	Qal	120	7/20/72	12	38	130	160	240	3.6	249	0
(D-13-1)7dda-1	Qal	145	7/20/72	10	32	99	40	86	3.7	253	0
(D-13-1)17bdd-1	Qal	90	7/20/72	12	-	-	-	-	-	-	-
(D-13-1)7dbc-1	Qal	210	7/20/72	10	-	-	-	-	-	-	-
GOSHEN VALLEY											
Utah County											
(C-10-1)4cbb-1	QTVf	1,218	8/11/72	18.5	-	-	-	-	-	-	-
SOUTHERN UTAH VALLEY											
Utah County											
(D-7-3)28bdb-1	Qu	338	8/11/72	25.5	-	-	-	-	-	-	-
(D-8-2)12ddc-1	Qu	172	8/11/72	13	-	-	-	-	-	-	-
(D-8-2)12ddc-2	Qu	372	8/11/72	14.5	-	-	-	-	-	-	-
(D-8-2)23dca-2	Tvf	569	8/11/72	17	-	-	-	-	-	-	-
(D-9-1)36bbc-1	Qu	386	8/11/72	10	-	-	-	-	-	-	-
(D-9-2)9bac-1	Qu	445	8/11/72	14.5	-	-	-	-	-	-	-
(D-9-3)5bdd-1	Qu	620	8/ / 72	12.5	-	-	-	-	-	-	-
NORTHERN UTAH VALLEY											
Utah County											
(D-5-1)18cab-2	Tvf	618	8/11/72	15	-	-	-	-	-	-	-
(D-5-1)19ccc	Qu	151	8/11/72	13	-	-	-	-	-	-	-
JORDAN VALLEY											
Salt Lake County											
(B-1-2)32baa	Qal	-	9/19/72	26	47	190	61	950	21	174	0
(B-1-2)2dac-2	Qal	540	9/19/72	26	32	15	4.3	160	4.3	257	0
(C-1-2)6aaa-4	QTVf	835	9/22/72	22	28	94	51	530	10	119	0
(C-3-1)30acd-1	Qal	420	9/19/72	12	26	140	35	44	3.2	245	0
(C-4-1)23dbb-1	Qal	262	9/20/72	18.5	25	59	44	110	15	254	0
(D-1-1)7abd-6	Qal	130	9/18/72	14	19	110	47	34	2.7	339	0
(D-3-1)31abb-1	Qal	138	9/20/72	19.5	40	45	21	14	11	252	0
TOOELE VALLEY											
Tooele County											
(C-2-4)22ccb-4	QTVf	96	7/18/72	13	22	200	83	260	8.6	296	0
(C-2-5)23dad-3	QTVf	400	7/18/72	18	28	110	53	260	7.6	236	0
(C-2-6)23cbb-1	QTVf	210	7/18/72	-	55	35	14	210	23	197	0
(C-3-5)4bbb-1	QTVf	410	7/18/72	16	23	100	39	190	3.5	221	0
EAST SHORE AREA											
Box Elder County											
(A-2-1)7aba-4	QTVf	450	8/9/72	13.5	-	-	-	-	-	-	-
(B-2-1)34add-2	QTVf	410	8/1/72	19.5	16	150	45	430	6.9	145	0
(B-3-1)14ccd-1	QTVf	-	8/1/72	13.5	25	38	15	130	10	496	0
(B-3-1)15bac-1	QTVf	985	8/1/72	26	28	29	3.8	57	1.9	224	0
(B-4-2)27aba-1	QTVf	-	8/1/72	13.5	22	1.9	1.2	200	6.0	510	0
(B-4-3)19caa-3	QTVf	481	8/6/72	22.5	38	62	14	260	4.9	160	0
(B-5-2)6bdd-3	QTVf	600	8/1/72	19	-	-	-	-	-	-	-
(B-5-2)6bdd-4	QTVf	300	8/1/72	19	-	-	-	-	-	-	-
(B-6-1)4ada-1	QTVf	69	8/3/72	12	10	51	22	7.9	1.3	243	0
(B-6-2)27bba-2	QTVf	536	8/3/72	-	23	95	21	110	14	204	0
(B-7-2)2cba-1	QTVf	-	8/6/72	12.5	14	51	8.0	8.8	.7	192	0
(B-7-2)16dcd-2	QTVf	1,176	8/6/72	26	-	-	-	-	-	-	-
(B-7-2)32bbb-1	QTVf	546	8/3/72	-	-	-	-	-	-	-	-
(B-7-2)34bbb-2	QTVf	-	8/3/72	15.5	20	64	18	310	48	274	0
(B-7-3)31aac-2	QTVf	920	8/6/72	39.5	60	38	6.3	250	20	360	0
(B-8-2)26bcd-1	QTVf	118	8/6/72	12.5	-	-	-	-	-	-	-
LOWER BEAR RIVER VALLEY											
Box Elder County											
(B-11-4)3ccc-1	Qal	262	8/8/72	-	19	86	46	250	7.4	246	0
(B-12-2)31dda-S2	Qal	-	8/8/72	13.5	10	50	23	91	4.8	221	0
(B-12-4)27dbd-1	Qal	478	8/8/72	-	25	89	41	140	3.2	238	0
(B-12-4)34bbd-1	Qal	306	8/8/72	-	21	91	41	140	3.7	240	0
(B-12-4)34cbd-1	Qal	292	8/8/72	-	22	96	44	140	3.8	232	0
CACHE VALLEY											
Cache County											
(A-11-1)8dda-3	QTVf	85	9/12/72	10	-	-	-	-	-	-	-
(A-13-1)29bcd-1	QTVf	-	9/12/72	12	-	-	-	-	-	-	-
(D-16-32)10aa	QTVf	-	8/8/72	-	-	66	31	94	8.6	244	0
BEAR LAKE VALLEY											
Rich County											
(A-13-6)30bbb-1	QTVf	125	9/7/72	10	-	-	-	-	-	-	-

Well number	Sulfate (SO4)	Chloride (Cl)	Nitrate (NO3)	Dis- solved solids (calc- ulated)	Hardness as CaCO3		Sodium ad- sorp- tion ratio (SAR)	Specific con- ductance (micromhos /cm at 26°C)	pH
					Ca, Mg	Non car- bonate			
SNAKE VALLEY--Continued									
Millard County--Continued									
(C-17-19)4add	13	27	-	236	140	0	1.3	428	7.3
(C-18-19)20ddd-1	11	17	.15	186	110	0	1.0	327	7.5
(C-18-19)20dad-1	17	19	-	239	170	0	.7	419	6.8
(C-22-19)6bac-1	13	11	2.6	326	270	5	.4	574	7.2
(C-23-19)20bac-1	88	90	-	570	260	0	2.7	940	7.5
JUAB VALLEY--Continued									
Juab County--Continued									
(C-12-1)24baa-1	100	190	-	702	380	140	2.5	1,270	7.2
(C-13-1)1cdd-1	72	160	-	595	330	100	2.2	1,080	7.4
(C-13-1)5ddb-2	140	250	-	958	540	210	2.8	1,730	7.0
(C-14-1)14cac-1	350	630	-	1,670	980	780	3.3	2,930	7.2
(D-13-1)7dda-1	69	210	-	664	410	200	1.8	1,260	7.1
(D-13-1)17bdd-1	-	-	-	-	-	-	-	3,900	-
(D-13-1)7dbc-1	-	-	-	-	-	-	-	1,260	-
GOSHEN VALLEY--Continued									
Utah County--Continued									
(C-10-1)4cbb-1	-	-	-	-	-	-	-	1,105	-
SOUTHERN UTAH VALLEY--Continued									
Utah County--Continued									
(D-7-3)28bdb-1	-	-	-	-	-	-	-	945	-
(D-8-2)12ddc-1	-	-	-	-	-	-	-	725	-
(D-8-2)12ddc-2	-	-	-	-	-	-	-	462	-
(D-8-2)23dca-2	-	-	-	-	-	-	-	445	-
(D-9-1)36bbc-1	-	-	-	-	-	-	-	515	-
(D-9-2)9bac-1	-	-	-	-	-	-	-	655	-
(D-9-3)5bbd-1	-	-	-	-	-	-	-	615	-
NORTHERN UTAH VALLEY--Continued									
Utah County--Continued									
(D-5-1)18cab-2	-	-	-	-	-	-	-	345	-
(D-5-1)19ccc	-	-	-	-	-	-	-	238	-
JORDAN VALLEY--Continued									
Salt Lake County--Continued									
(B-1-2)32baa	39	2,000	-	3,390	730	580	15	6,090	7.3
(B-1-2)2dac-2	3.9	140	-	486	55	0	9.4	845	7.5
(C-1-2)6aaaa-4	52	1,100	-	1,920	440	350	11	3,540	8.3
(C-3-1)30acd-1	180	160	-	709	490	290	.9	1,300	8.0
(C-4-1)23dbb-1	190	150	-	718	330	120	2.6	1,190	8.1
(D-1-1)7abd-6	160	75	-	614	470	190	.7	1,070	7.2
(D-3-1)31abb-1	4.2	12	-	271	200	0	.4	441	6.6
TOOELE VALLEY--Continued									
Tooele County--Continued									
(C-2-4)22ccb-4	610	360	-	1,690	840	600	3.9	2,610	7.2
(C-2-5)23dad-3	91	570	-	1,240	490	300	5.1	2,270	7.2
(C-2-6)23cbb-1	37	310	-	781	150	0	7.6	1,370	7.5
(C-3-5)4bbb-1	51	460	-	975	410	230	4.1	1,800	7.5
EAST SHORE AREA--Continued									
Box Elder County--Continued									
(A-2-1)7aba-4	-	-	-	-	-	-	-	407	-
(B-2-1)34add-2	38	950	-	1,710	560	440	7.9	3,200	7.7
(B-3-1)14ccd-1	4.1	48	.88	520	160	0	4.5	882	7.2
(B-3-1)15bac-1	2.8	18	-	251	88	0	2.6	405	7.5
(B-4-2)27aba-1	5.3	30	-	517	10	0	28	851	8.1
(B-4-3)19caa-3	19	460	1.0	942	210	81	7.8	1,780	7.5
(B-5-2)6bdd-3	-	-	-	-	-	-	-	365	-
(B-5-2)6bdd-4	-	-	-	-	-	-	-	467	-
(B-6-1)4ada-1	31	9.0	-	252	220	19	.2	452	7.5
(B-6-2)27bba-2	2.9	290	.85	660	320	160	2.7	1,240	7.3
(B-7-2)2cba-1	9.5	11	1.3	203	160	3	.3	350	7.4
(B-7-2)16dcd-2	-	-	-	-	-	-	-	339	-
(B-7-2)32bbb-1	-	-	-	-	-	-	-	2,470	-
(B-7-2)34bbb-2	3.9	580	.01	1,180	230	9	8.8	2,170	7.4
(B-7-3)31aac-2	3.9	300	-	855	120	0	9.9	1,520	7.4
(B-8-2)26bcd-1	-	-	-	-	-	-	-	467	-
LOWER BEAR RIVER VALLEY--Continued									
Box Elder County--Continued									
(B-11-4)3ccc-1	52	540	-	1,120	400	200	5.4	2,080	7.6
(B-12-2)31dda-S2	23	160	-	470	220	38	2.7	903	7.7
(B-12-4)27dbd-1	64	330	-	809	390	200	3.1	1,510	7.8
(B-12-4)34bbd-1	63	350	-	838	400	200	3.3	1,580	7.7
(B-12-4)34cbd-1	89	330	-	839	420	230	3.0	1,570	7.7
CACHE VALLEY--Continued									
Cache County--Continued									
(A-11-1)8dda-3	-	-	-	-	-	-	-	465	-
(A-13-1)29bcd-1	-	-	-	-	-	-	-	435	-
(D-16-32)10aa	79	160	-	-	290	92	2.4	1,030	8.1
BEAR LAKE VALLEY--Continued									
Rich County--Continued									
(A-13-6)30bbb-1	-	-	-	-	-	-	-	430	-

CHEMICAL ANALYSES, IN MILLIGRAMS PER LITER, OF GROUND WATERS IN UTAH--Continued

Well number	Geologic source 1/	Depth of well (feet)	Date of col- lec- tion	Tem- pera- ture (°C)	Silica (SiO ₂)	Calcium (Ca)	Magne- sium (Mg)	Sodium (Na)	Po- tass- ium (K)	Bicar- bonate (HCO ₃)	Car- bonate (CO ₃)
CURLEW VALLEY											
Box Elder County											
(B-13-10)11dcd-1	QTvf	-	6/16/72	15.5	-	72	31	590	40	255	0
GROUSE CREEK VALLEY											
Box Elder County											
(B-12-18)32aad-1	QTvf	-	7/5/72	18	19	44	15	14	1.7	185	0
UINTA BASIN											
Duchesne County											
U(C-2-1)15ddc-1	Tu	560	8/2/72	17.5	9.3	2.7	0.8	190	1.4	211	0
SPANISH VALLEY											
Grand County											
(D-26-21)1dbc	Qal	-	9/15/72	20	9.4	34	13	10	1.6	121	0

1/ Qu, Quaternary, upper Pleistocene deposits; Qal, Quaternary, alluvium; QTvf, Quaternary and Tertiary, valley floor, Jurassic and Triassic(?), Navajo Sandstone; Tu, Tertiary, Uinta Formation.

CHEMICAL ANALYSES, IN MILLIGRAMS PER LITER, OF GROUND WATERS IN UTAH--Continued

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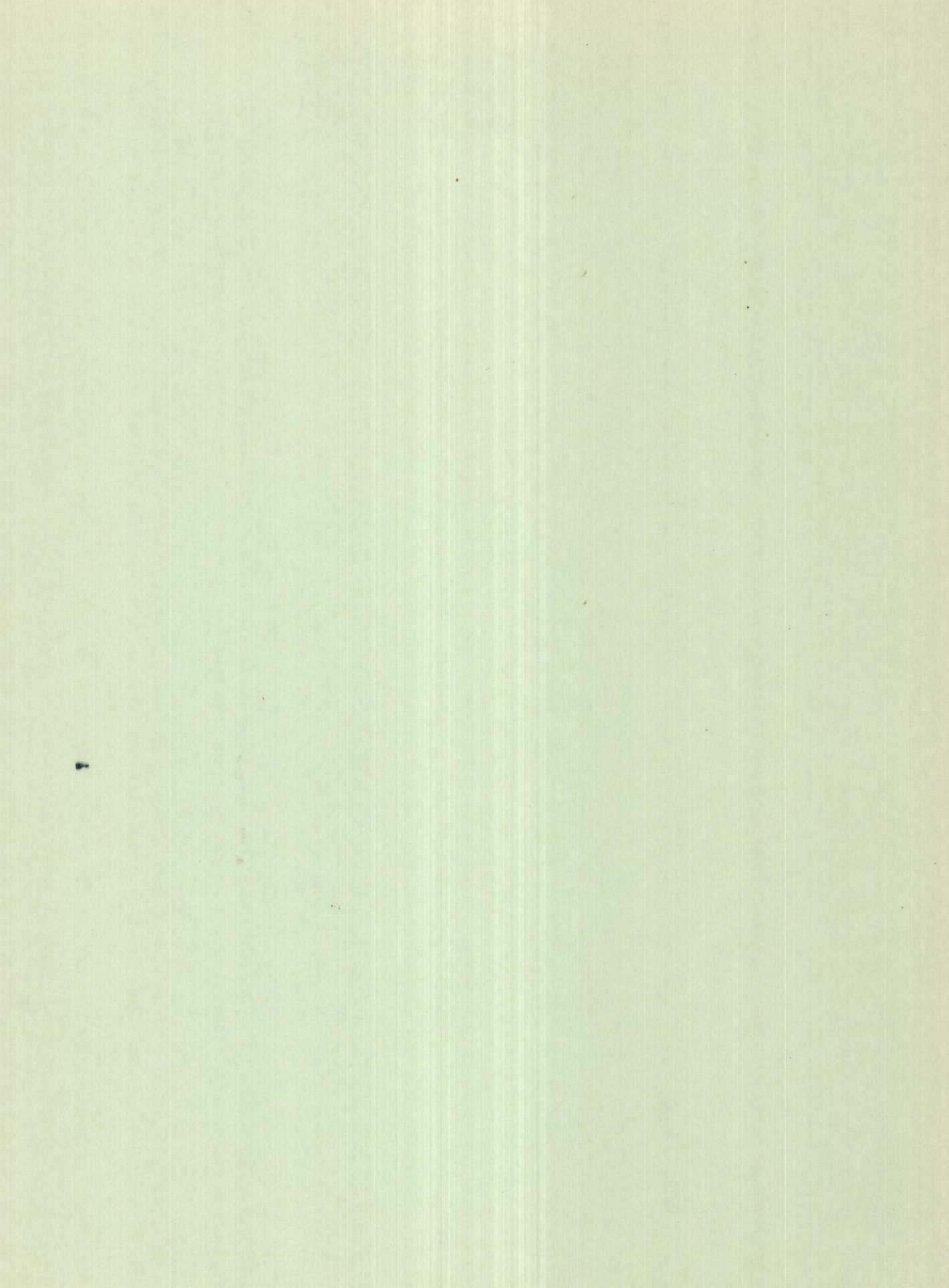
Well number	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)	Dis- solved solids (calc- ulated)	Hardness as CaCO ₃		Sodium- ad- sorp- tion ratio (SAR)	Specific con- ductance (micromhos /cm at 26°C)	pH
					Ca, Mg	Non car- bonate			
CURLEW VALLEY--Continued Box Elder County--Continued									
(C-13-10)11dcd-1	93	970	-	-	310	98	15	3,540	7.5
GROUSE CREEK VALLEY--Continued Box Elder County--Continued									
(B-12-18)32aad-1	21	27	-	233	170	20	0.5	407	7.5
UINTA BASIN--Continued Duchesne County--Continued									
U(C-2-1)15ddc-1	69	78	-	503	10	0	26	884	8.8
SPANISH VALLEY--Continued Grand County--Continued									
(D-26-21)1dbc	61	3.0	.22	193	140	39	.4	279	7.8

fill deposits; Q1pf, Quaternary and Tertiary, Pavant flow (basalt); Tvf, Tertiary, valley fill deposits;

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