1971

Water Resources Data for Idaho

Part 2. Water Quality Records

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

CALENDAR FOR WATER YEAR 1971

OCTOBER 1970

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

NOVEMBER 1970

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

DECEMBER 1970

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

JANUARY 1971

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

FEBRUARY 1971

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

MARCH 1971

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

APRIL 1971

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

MAY 1971

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

JUNE 1971

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

JULY 1971

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

AUGUST 1971

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

SEPTEMBER 1971

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

1971

Water Resources Data for Idaho

Part 2. Water Quality Records

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

Prepared in cooperation with

Idaho Department of Water Administration
Environmental Protection Agency
Corps of Engineers, Department of the Army
Bureau of Reclamation, U.S. Department of the Interior
U.S. Department of State
Forest Service, U.S. Department of Agriculture
Bureau of Sports Fisheries and Wildlife, U.S. Department of the Interior

Water resources records, 1971, for Idaho are in the following reports of the U.S. Geological Survey:

1. Water Resources Data for Idaho
   Part 1. Surface Water Records

2. Water Resources Data for Idaho
   Part 2. Water Quality Records

Copies of this report may be obtained from
District Chief, Water Resources Division
U.S. Geological Survey
P.O. Box 036, Federal Building
550 West Fort Street
Boise, Idaho 83702

1972

CONTENTS

	Page
List of water-quality stations, in downstream order, for which records are published	IV
Introduction	1
Cooperation	1
Definition of terms	2
Special networks and programs	6
Downstream order and station numbers	6
Collection and examination of data	7
Solutes	8
Temperature	9
Sediment	9
Water-supply papers	9
Selected references	10
Water quality records	12
Index	145

ILLUSTRATION

	Page
Figure 1. Map of Idaho showing locations of water-quality stations, 1971 water year	143

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

[Letters after station name designate type of data: (c), chemical; (t), water temperature; (s), sediment]

	Page
THE GREAT BASIN	
GREAT SALT LAKE BASIN:	
BEAR RIVER BASIN	
Bear River at Border, Wyo. (ct)	12
Rainbow inlet canal near Dingle (c)	14
Bear Lake outlet canal near Paris (c)	14
Analyses of samples collected at partial-record sites (c)	16
UPPER COLUMBIA RIVER BASIN	
Columbia River:	
KOOTENAI RIVER BASIN	
Kootenai River at Leonia (ct)	18
Kootenai River near Copeland (cts)	21
Kootenai River at Porthill (t)	26
PEND OREILLE RIVER BASIN	
Clark Fork at Clark Fork (c)	27
SPOKANE RIVER BASIN	
Coeur d'Alene River (head of Spokane River):	
South Fork Coeur d'Alene River at Smelterville (c)	30
Spokane River:	
Hayden Creek below North Fork, near Hayden Lake (c)	32
Spokane River above Liberty Bridge, near Otis Orchards, Wash. (c)	35
SNAKE RIVER BASIN	
Snake River above reservoir, near Alpine, Wyo. (c)	36
SALT RIVER BASIN	
Salt River above reservoir, near Etna, Wyo. (c)	37
Snake River near Heise (ct)	38
HENRYS FORK BASIN	
Henrys Fork:	
Teton River near St. Anthony (t)	40
WILLOW CREEK BASIN	
Willow Creek near Ririe (c)	41
LAKE MILNER:	
Lake Milner at Milner Dam (c)	42
Snake River at King Hill (ct)	46
BRUNEAU RIVER BASIN	
Bruneau River:	
Big Jacks Creek near Bruneau (cs)	49
Snake River at Marsing (c)	52
BOISE RIVER BASIN	
Boise River:	
Mores Creek above Robie Creek, near Arrowrock Dam (t)	55
Five Mile Creek near Nampa (c)	56
Mason Creek at Caldwell (c)	57
Indian Creek at Caldwell (c)	58
Boise River at Notus (ct)	59
Dixie Slough near Wilder (c)	61
Boise River near Parma (c)	62
PAYETTE RIVER BASIN	
Payette River near Banks (t)	64
North Fork Payette River near Banks (t)	65
Payette River near Horseshoe Bend (t)	66
WEISER RIVER BASIN	
Weiser River:	
West Branch Weiser River near Tamarack (t)	67
Snake River at Weiser (ct)	68

SNAKE RIVER BASIN--Continued Page
Snake River below Pine Creek, at Oxbow, Oreg. (t) 71
Snake River at Hells Canyon Dam, Idaho-Oregon State line (c) 72
SALMON RIVER BASIN
Salmon River near Obsidian (cs) 74
Beaver Creek near Stanley (cs) 75
Champion Creek near Obsidian (cs) 76
Fourth of July Creek near Obsidian (cs) 77
Valley Creek at Stanley (cs) 78
Basin Creek near Stanley (cs) 79
Yankee Fork Salmon River near Clayton (cs) 80
Salmon River below Yankee Fork, near Clayton (cs) 81
Warm Springs Creek at Robinson Bar, near Clayton (cs) 82
Peach Creek near Clayton (cs) 83
Slate Creek near Clayton (cs) 84
Holman Creek near Clayton (cs) 85
Thompson Creek above Pat Hughes Creek, near Clayton (cs) 86
Pat Hughes Creek near Clayton (cs) 87
Thompson Creek near Clayton (cs) 88
Squaw Creek above Bruno Creek, near Clayton (cs) 89
Bruno Creek near Clayton (cs) 90
Squaw Creek near Clayton (cs) 91
Salmon River above East Fork, near Clayton (cs) 92
East Fork Salmon River:
South Fork East Fork Salmon River above West Fork, near Clayton (cs) 93
West Fork East Fork Salmon River above South Fork, near Clayton (cs) 94
West Pass Creek near Clayton (cs) 95
East Fork Salmon River below Bowery guard station, near Clayton (cs) 96
Germania Creek near Clayton (cs) 97
Wickiup Creek near Clayton (cs) 98
East Fork Salmon River below Wickiup Creek, near Clayton (cs) 99
Little Boulder Creek above Baker Lake, near Clayton (c) 100
Little Boulder Creek below Boulder Chain Lakes outlet, near Clayton (c) 101
Little Boulder Creek near Clayton (ct) 102
Big Boulder Creek at Livingston Mill, near Clayton (c) 105
Jim Creek at Livingston Mill, near Clayton (c) 106
Big Boulder Creek near Clayton (cs) 107
Big Lake Creek near Clayton (cs) 108
Herd Creek near Clayton (cs) 109
Road Creek above Horse Basin Creek, near Clayton (cs) 110
Horse Basin Creek near Clayton (cs) 111
Road Creek near Clayton (cs) 112
East Fork Salmon River near Clayton (cs) 113
Salmon River near Challis (cs) 114
Salmon River at White Bird (ct) 115
Snake River near Anatone, Wash. (t) 116
CLEARWATER RIVER BASIN
Clearwater River:
North Fork Clearwater River near Canyon ranger station (t) 117
Little North Fork Clearwater River near Elk River (t) 118
North Fork Clearwater River at Ahsahka (t) 119
Clearwater River near Peck (t) 120
Clearwater River at Spalding (t) 121
Snake River near Clarkston, Wash. (c) 122
Analyses of samples collected at partial-record sites (c) 124
Analyses of samples collected at miscellaneous sites (c) 136

WATER RESOURCES DATA FOR IDAHO, 1971

Part 2. Water Quality Records

INTRODUCTION

Water resources data for the 1971 water year for Idaho include records of data for the chemical and physical characteristics of surface water. Data on the quality of surface water (chemical, temperature, and sediment) were collected from designated sampling sites at predetermined intervals such as once daily, weekly, monthly or less frequently, and at some sites data were recorded on punched paper tape at 15-minute intervals. Locations of surface water-quality stations are shown in figure 1. A few pertinent 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 H. K. Hall, 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 Idaho.

The Geological Survey has published records of chemical quality, suspended sediment, and water temperatures 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 for limited distribution and are designed primarily for rapid release of data shortly after the end of the water year. These records will be published later in Geological Survey water-supply papers.

COOPERATION

This report was prepared by the U.S. Geological Survey under cooperative agreement with the following organization:

Idaho Department of Water Administration, R. Keith Higginson, director.

Agencies furnishing assistance were:

Environmental Protection Agency
Corps of Engineers, Department of the Army
Forest Service, U.S. Department of Agriculture
U.S. Department of State
Bureau of Commercial Fisheries, U.S. Department of the Interior

DEFINITION OF TERMS

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.

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

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.

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

Coliform organisms are a group of bacteria used as an indicator of the sanitary quality of the water. The number of coliform colonies per 100 milliliters is determined by the immediate or delayed incubation membrane filter method.

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 stream 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 ($CaCO_3$).

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micromgrams per liter (ug/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.

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, page 4. Concentration of suspended sediment also is expressed in mg/l, and is based on the weight of sediment per liter of water-sediment mixture. Sediment concentrations are determined in the laboratory as parts per million (ppm) and are converted to mg/l by using the factors in table 2, page 4.

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 either by sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling) (Guy, 1969).

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

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

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

Plankton is the floating (or weakly swimming) animal or plant life in a body of water consisting chiefly of minute plants (as diatoms and blue-green algae) and of minute animals (as protozoan, entomostracans, and various larvae).

Sediment is solid material that originates mostly from disintegrated rocks and is transformed by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

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

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

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

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

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

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

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment discharge is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight, or by volume, that is discharged in a given time. It is computed by multiplying discharge times mg/l times 0.0027.

Total sediment discharge or total sediment load is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight or volume, that is discharged during a given time (Colby and Hembree, 1955).

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

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

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks 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.

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

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

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

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

SPECIAL NETWORKS AND PROGRAMS

Some of the stations for which data are published in this report are included in special networks and programs. These stations are identified by their title, set in parentheses, under the station name.

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

International Hydrological Decade (IHD) River Stations provide a general index of runoff and materials in the water balance (discharge of water, and dissolved and transported solids) of the world. In the United States, IHD Stations provide indices of runoff and the general distribution of water in the principal river basins of the conterminous United States and Alaska.

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 main-stream stations are listed before the first main-stream 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 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 13037500 which appears just to the left of the station name includes the 2-digit part number "13" plus the 6-digit downstream order number "037500." 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. 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.

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 Idaho have been released in the report, "Water Resources Data for Idaho, 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.

Water-quality information is presented for chemical quality, biological, microbiological, water temperature, and fluvial sediment. Chemical quality includes concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, sodium adsorption ratio, specific conductance, and pH. The biological information includes qualitative and quantitative analyses of plankton, bottom organisms, and particulate inorganic and amorphous matter present. Microbiological information includes quantitative identification of certain bacteriological indicator organisms. Water-temperature data represent once-daily observations except for stations where a continuous temperature recorder 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 millions 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, page 8.

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. 2.)

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

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
0.0	32	10.0	50	20.0	68	30.0	86	40.0	104
.5	33	10.5	51	20.5	69	30.5	87	40.5	105
1.0	34	11.0	52	21.0	70	31.0	88	41.0	106
1.5	35	11.5	53	21.5	71	31.5	89	41.5	107
2.0	36	12.0	54	22.0	72	32.0	90	42.0	108
2.5	36	12.5	54	22.5	72	32.5	90	42.5	108
3.0	37	13.0	55	23.0	73	33.0	91	43.0	109
3.5	38	13.5	56	23.5	74	33.5	92	43.5	110
4.0	39	14.0	57	24.0	75	34.0	93	44.0	111
4.5	40	14.5	58	24.5	76	34.5	94	44.5	112
5.0	41	15.0	59	25.0	77	35.0	95	45.0	113
5.5	42	15.5	60	25.5	78	35.5	96	45.5	114
6.0	43	16.0	61	26.0	79	36.0	97	46.0	115
6.5	44	16.5	62	26.5	80	36.5	98	46.5	116
7.0	45	17.0	63	27.0	81	37.0	99	47.0	117
7.5	45	17.5	63	27.5	81	37.5	99	47.5	117
8.0	46	18.0	64	28.0	82	38.0	100	48.0	118
8.5	47	18.5	65	28.5	83	38.5	101	48.5	119
9.0	48	19.0	66	29.0	84	39.0	102	49.0	120
9.5	49	19.5	67	29.5	85	39.5	103	49.5	121

*C = 5/9 (°F - 32) or °F = 9/5 (°C) + 32.

Solutes

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 daily chemical quality data in this report generally represent equal-volume composites for 2- to 30-day periods; the composite periods are selected on the basis of specific conductance of the daily samples and fluctuation of water discharge.

At chemical quality stations where monitors are installed, the records consist of daily maximum, minimum, and mean values for each constituent measured. More detailed records (hourly values) may be obtained from the district office of the U.S. Geological Survey at the address given on page II of this report.

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

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

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross-section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

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

The annual series of water-supply papers that give information on quality of surface waters in Idaho are shown in the following table. Data for The Great Basin are given in part 10; for upper Columbia River basin in part 12; and for Snake River basin in part 13.

Table 4.--Water-supply paper numbers and parts, water years, 1947-67

Year	Parts 9-14	Year	Parts 9-14	Year	Parts 9-11	Parts 12-16
1947	1102	1956	1453	1964	1958	A1959
1948	1133	1957	1523	1965	1965	1966
1949	1163	1958	1574	1966	1995	1996
1950	1189	1959	1645	1967	B2015	B2016
1951	1200	1960	1745	1968	B2098	B2100
1952	1253	1961	1885			
1953	1293	1962	1945			
1954	1353	1963	1951			
1955	1401					

A Parts 12-15.
B In preparation.

SELECTED REFERENCES

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

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

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

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

Guy, H. P., 1970, Fluvial sediment concepts: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C1, 55 p.

_____1969, Laboratory theory and methods for sediment analysis: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. C1, 58 p.

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--Revised edition: U.S. Geol. Survey Water-Supply Paper 1473, 363 p.

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

Porterfield, George, 1972, Computations of fluvial-sediment discharge: U.S. Geol. Survey Techniques of Water Resources Inv., book 3, chap. C3, 66 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, 33 p.

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.

_____1953, Accuracy of sediment size analyses made by the bottom-withdrawal-tube method: Rept. 10.

_____1957, The development and calibration of visual accumulation tube: Rept. 11.

_____1957, Some fundamentals of particle size analysis: Rept. 12.

_____1959, Federal Inter-agency sedimentation instruments and reports: Rept. AA.

_____1961, The single stage sampler for suspended sediment: Rept. 13.

_____1963, Determinations of fluvial sediment discharge: Rept. 14.

10039500 BEAR RIVER AT BORDER, WYO.

LOCATION.--Lat 42°12'40", long 111°03'11", in NE¼NE¼ sec.15, T.14 S., R.46 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 1971.
Water temperatures: October 1965 to September 1971.
EXTREMES.--1970-71:
Specific conductance: Maximum daily, 734 micromhos Dec. 15; minimum daily, 357 micromhos Mar. 28.
Water temperatures: Maximum, 21.5° C Aug. 2; minimum daily, freezing point several days during December and February.
Period of record:
Specific conductance: Maximum daily, 883 micromhos July 21, 1966; minimum daily, 312 micromhos Apr. 3, 1969.
Water temperatures: Maximum, 22° C on several days during 1966-69; minimum, freezing point on many days during winter period of most years.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
OCT.										
10...	238	8.5	64	23	23	1.9	261	0	58	28
NOV.										
04...	195	6.8	74	17	25	1.7	256	0	68	29
04...	200	6.0	57	23	26	2.0	259	0	59	23
DEC.										
01...	240	8.0	67	25	28	2.2	253	8	75	29
JAN.										
07...	*220	9.2	76	27	27	1.8	306	0	78	28
29...	*310	14	70	19	27	2.2	244	0	67	28
MAR.										
12...	*300	8.1	62	24	20	2.3	266	0	52	25
APR.										
03...	1740	11	52	22	26	4.9	229	0	56	22
MAY										
17...	2600	11	60	17	14	2.7	238	0	39	13
20...	2500	--	52	22	18	2.4	247	0	35	15
JUNE										
02...	2160	8.3	55	18	14	2.0	229	0	31	16
JULY										
10...	1040	8.8	56	23	24	2.2	259	0	43	21
AUG.										
04...	433	8.4	60	21	20	1.3	248	0	49	17
13...	285	--	65	22	23	2.1	284	0	57	23
SEP.										
03...	261	8.3	62	21	19	1.8	232	0	61	17

* Mean daily discharge.

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
OCT.									
10...	.3	334	217	260	46	.6	540	8.1	9.5
NOV.									
04...	.2	352	185	260	50	.7	581	8.1	3.0
04...	--	380	205	236	24	.7	594	8.1	.5
DEC.									
01...	.3	362	235	270	49	.7	615	8.3	1.0
JAN.									
07...	.2	384	--	300	49	.7	662	7.9	.0
29...	.2	348	--	260	60	.7	591	7.7	.0
MAR.									
12...	--	--	--	250	32	.5	563	8.2	.0
APR.									
03...	.3	318	--	220	32	.8	480	7.9	4.0
MAY									
17...	.3	268	--	220	25	.4	434	8.0	9.0
20...	--	--	--	220	18	.5	511	7.8	8.5
JUNE									
02...	.2	262	--	210	22	.4	428	8.2	13.5
JULY									
10...	.2	318	--	240	28	.7	502	8.0	15.5
AUG.									
04...	.3	306	358	240	37	.6	526	8.1	19.5
13...	--	--	--	250	20	.6	570	7.9	17.0
SEP.									
03...	.2	312	--	240	50	.5	526	8.2	13.5

10039500 BEAR RIVER AT BORDER, WYO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	552	585	622	604	538	657	435	593	438	478	503	552
2	569	595	603	604	516	658	450	588	450	488	506	550
3	579	592	612	616	523	661	502	560	464	502	521	556
4	575	582	588	642	538	648	541	510	494	504	521	547
5	564	574	629	649	538	639	579	501	501	511	522	485
6	568	576	630	659	531	632	581	501	525	524	543	453
7	535	540	679	658	555	620	589	491	535	530	546	453
8	568	568	627	641	594	587	585	486	547	524	548	472
9	556	590	616	632	612	589	585	488	496	533	555	474
10	549	585	619	609	638	581	582	480	502	533	536	506
11	544	592	630	599	622	567	556	482	477	525	534	507
12	562	600	650	592	609	536	567	474	498	533	565	527
13	551	598	697	585	613	540	584	464	503	517	570	557
14	569	611	721	590	590	542	585	461	512	534	565	556
15	575	621	734	585	568	518	579	459	508	534	567	559
16	542	616	683	581	575	464	565	462	499	538	552	551
17	546	602	680	573	586	459	557	455	490	540	555	554
18	566	599	660	559	558	482	537	459	492	556	550	550
19	552	609	640	537	523	504	539	494	480	510	556	556
20	549	613	664	534	553	578	552	496	464	536	558	539
21	561	606	671	545	599	606	566	519	438	547	558	540
22	565	592	655	573	626	607	586	494	438	552	561	545
23	568	637	627	575	646	614	584	519	448	567	541	546
24	572	605	652	556	646	453	634	530	453	564	544	550
25	576	612	675	563	659	460	631	538	446	561	---	555
26	588	587	668	567	660	406	616	524	447	567	534	562
27	594	584	674	572	671	361	645	502	451	557	523	566
28	581	592	668	555	663	357	648	485	448	564	535	550
29	580	606	644	576	---	373	648	462	449	534	522	556
30	587	626	626	599	---	386	666	448	465	544	523	559
31	590	---	620	560	---	397	---	436	---	516	499	---
MONTH	566	597	650	590	591	532	576	496	479	533	540	534
YEAR	557											

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.0	5.0	2.0	2.5	1.5	1.5	2.0	11.0	11.5	19.0	21.0	18.5
2	15.0	5.5	2.5	1.5	2.0	2.0	3.5	12.0	12.0	16.0	21.5	15.5
3	13.0	5.5	2.0	1.0	0.5	1.5	4.0	12.5	14.0	16.0	21.0	19.0
4	13.5	5.0	2.0	1.0	1.5	2.5	6.0	11.0	13.0	17.5	20.5	16.0
5	12.0	5.0	1.5	0.5	1.0	1.5	7.0	10.0	14.0	16.5	20.0	12.5
6	15.0	4.5	1.5	1.0	0.5	2.5	7.5	11.0	14.5	18.5	21.5	17.0
7	7.5	5.0	1.0	1.0	0.5	1.5	7.0	10.0	15.0	15.5	19.0	16.5
8	8.5	5.5	4.0	1.0	1.0	1.5	7.5	10.0	16.0	18.0	19.5	12.0
9	6.5	5.0	2.5	1.0	0.5	1.0	8.0	10.5	15.5	18.5	19.5	11.5
10	10.0	4.5	2.0	1.0	1.5	2.0	8.5	10.0	17.0	19.0	20.5	19.0
11	9.0	5.0	2.0	2.0	2.0	2.0	8.5	10.5	16.0	17.0	20.0	17.5
12	9.5	4.0	2.5	1.5	1.0	1.0	7.5	14.0	15.0	19.0	20.5	13.0
13	10.5	4.5	1.5	1.0	3.0	2.5	8.5	13.0	17.5	19.0	18.5	16.0
14	8.0	4.5	1.0	1.0	1.5	2.0	9.5	12.0	18.0	20.0	19.0	15.0
15	6.5	4.0	1.5	1.0	1.0	2.0	9.5	14.0	17.5	20.0	21.0	12.5
16	8.0	4.5	1.5	1.5	1.0	2.0	9.0	10.5	16.5	20.5	21.0	10.0
17	9.0	4.0	2.0	1.5	1.0	2.5	10.0	9.0	17.5	21.0	20.0	9.0
18	8.0	3.5	1.0	2.0	1.5	4.5	10.5	7.0	17.0	19.0	20.0	10.0
19	9.0	3.5	1.0	2.0	1.0	2.0	7.5	9.0	19.0	19.0	19.0	10.0
20	7.5	4.0	2.0	1.5	2.0	2.0	7.5	11.0	19.0	19.0	18.0	10.0
21	7.0	2.5	1.0	1.5	0	2.0	7.0	10.5	20.5	20.5	20.0	11.0
22	6.0	2.0	1.0	1.5	0.5	2.0	8.0	10.5	19.5	16.0	19.5	12.0
23	5.0	3.0	0.5	1.5	0.5	3.0	7.5	12.0	18.0	20.0	19.5	12.0
24	5.0	4.0	1.0	2.0	2.0	2.5	8.5	14.0	20.5	20.0	18.5	9.0
25	5.0	4.5	1.5	1.0	0	4.0	9.0	12.5	16.0	20.0	---	12.0
26	4.5	4.0	0	2.0	1.0	4.0	7.5	15.0	20.5	19.5	19.0	9.5
27	4.0	3.0	0.5	2.0	1.0	2.5	8.0	14.0	17.0	20.0	18.0	9.0
28	4.5	3.5	1.5	1.5	1.5	2.0	8.0	14.0	18.0	20.0	18.0	10.0
29	2.5	2.5	1.0	1.0	---	1.0	10.0	13.0	13.0	18.0	18.5	8.5
30	4.5	4.0	1.5	2.0	---	3.0	10.0	11.5	14.0	16.5	18.0	7.5
31	2.0	---	2.0	2.0	---	3.0	---	10.5	---	19.5	19.0	---
MONTH	8.0	4.0	1.5	1.5	1.0	2.0	8.0	11.5	16.5	18.5	19.5	12.5
YEAR	9.0											

10046000 RAINBOW INLET CANAL NEAR DINGLE, IDAHO

LOCATION.--Lat 42°13'48", long 111°17'43", in SE¼ sec.3, T.14 S., R.44 E., Bear Lake County, at gaging station, 1.5 miles west of Dingle, and 1.8 miles downstream from headworks of Stewart Dam.

PERIOD OF RECORD.--Chemical analyses: October 1965 to September 1971.

REMARKS.--Canal diverts from Bear River at Stewart Dam in NE¼ sec.34, T.13 S., R.44 E., for storage in Bear Lake. At times flow in canal is augmented by surplus water from Black Otter Slough entering at station and by seepage and wastage from irrigation lands on both sides of canal.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)
NOV.											
04...	187	6.0	63	26	32	1.8	275	0	64	37	--
MAR.											
12...	273	9.0	70	23	30	2.4	282	0	52	35	.00
MAY											
20...	3220	--	53	20	22	2.8	249	0	38	22	.00
AUG.											
13...	247	--	62	25	31	2.0	263	0	58	36	.05

DATE	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 DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
NOV.										
04...	--	--	365	186	264	38	.9	649	8.0	2.0
MAR.										
12...	.03	--	360	--	270	39	.8	632	8.2	2.0
MAY										
20...	.12	40	--	--	210	10	.7	536	7.8	9.0
AUG.										
13...	.03	--	--	--	260	42	.8	574	8.0	20.0

10059500 BEAR LAKE OUTLET CANAL NEAR PARIS, IDAHO

LOCATION.--Lat 42°13'00", long 111°20'35", in SW¼ sec.8, T.14 S., R.44 E., Bear Lake County, at gaging station on right bank, 2,000 ft downstream from headgates (at dike), and 3 miles southeast of Paris.

PERIOD OF RECORD.--Chemical analyses: October 1965 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)
NOV. 04...	14	7.0	65	35	39	2.6	297	0	79	44	--
MAR. 12...	747	11	43	48	38	4.8	328	0	68	45	.00
MAY 20...	600	--	57	24	27	3.5	258	0	52	27	1.0
AUG. 13...	1450	--	43	46	35	4.1	330	0	56	38	.04

DATE	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 DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
NOV. 04...	--	--	418	16.8	306	62	1.0	722	8.1	3.0
MAR. 12...	.05	--	420	--	300	31	.9	726	8.3	3.0
MAY 20...	.06	70	--	--	240	30	.8	580	7.7	10.0
AUG. 13...	.03	--	--	--	300	26	.9	691	7.9	22.0

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
BEAR RIVER BASIN												
10041000 - THOMAS FORK NR WYOMING-IDAHO STATE LINE (LAT 42 24 10 LONG 111 01 30)												
NOV., 1970												
04...	1345	19	8.0	66	17	145	1.5	263	0	55	180	--
MAY , 1971												
20...	1030	541	--	61	14	30	1.4	237	0	23	37	--
10042700 - THOMAS FORK NR BORDER WYO (LAT 42 12 56 LONG 111 04 17)												
OCT., 1970												
21...	1650	28	10	73	25	80	2.7	242	0	56	125	.2
JUNE, 1971												
07...	1940	457	7.9	52	19	42	1.4	230	0	40	53	.3
JULY												
07...	1425	131	11	67	22	72	1.5	316	0	45	95	.3
SEP.												
14...	1630	55	8.8	71	22	86	1.5	273	0	61	110	.5
10079500 - BEAR R AT ALEXANDER IDAHO (LAT 42 38 45 LONG 111 41 55)												
OCT., 1970												
22...	0815	64	19	72	51	27	5.0	413	0	62	26	.3
MAY , 1971												
05...	0740	1220	12	44	29	21	2.0	239	0	53	20	.2
JULY												
07...	1700	2330	11	51	26	23	2.4	296	0	33	21	.3
10090450 - WEST CACHE CA AT CORNISH UTAH (LAT 41 59 10 LONG 111 57 14)												
NOV., 1970												
05...	1340	26	16	58	40	68	11	377	0	65	80	--
MAY , 1971												
25...	0910	1.0	--	100	54	110	9.2	360	0	160	190	--
10092200 - BEAR R AT CORNISH UTAH (LAT 41 58 32 LONG 111 56 10)												
MAY , 1971												
25...	1010	3200	--	55	23	25	4.5	264	0	32	31	--
10095400 - CUB RIVER AT FRANKLIN IDAHO (LAT 42 00 50 LONG 111 49 10)												
NOV., 1970												
05...	0950	5.0	13	50	21	33	5.9	280	0	8.2	29	--
MAR., 1971												
10...	1130	--	12	54	15	10	2.3	231	0	11	10	--
MAY												
25...	1440	443	--	48	9.8	3.0	.8	195	0	6.0	2.9	--
AUG.												
19...	1200	2.0	19	47	20	33	8.2	303	0	11	26	.3
10098800 - WORM CREEK NR FAIRVIEW IDAHO (LAT 42 00 15 LONG 111 51 00)												
NOV., 1970												
05...	1100	3.5	15	50	31	22	9.7	355	0	8.5	8.0	--
MAY , 1971												
25...	1110	3.0	--	61	36	25	9.0	384	0	18	22	--
10125500 - MALAD R AT WOODRUFF IDAHO (LAT 42 02 00 LONG 112 14 00)												
NOV., 1970												
06...	1515	37	25	124	55	644	48	452	0	184	950	--
MAR., 1971												
09...	1440	--	23	120	60	460	43	417	0	180	770	--
MAY												
24...	1300	140	--	90	53	340	36	456	0	120	540	--
AUG.												
20...	1600	17	26	140	47	1100	80	416	0	83	1900	.5

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
BEAR RIVER BASIN												
10041000 - THOMAS FORK NR WYOMING-IDAHO STATE LINE (LAT 42 24 10 LONG 111 01 30)												
NOV., 1970												
04...	--	--	--	602	35.0	234	18	4.1	57	1150	8.1	.0
MAY , 1971												
20...	.27	.050	--	--	--	210	15	.9	24	533	7.8	5.0
10042700 - THOMAS FORK NR BORDER WYO (LAT 42 12 56 LONG 111 04 17)												
OCT., 1970												
21...	1.3	--	--	517	39.2	285	45	2.1	38	881	7.9	6.5
JUNE, 1971												
07...	.17	.040	.13	330	407	210	19	1.3	30	542	7.9	17.0
JULY												
07...	.81	.020	.12	473	167	260	0	2.0	38	806	7.9	16.0
SEP.												
14...	1.1	.000	.070	500	74.3	270	44	2.3	41	709	8.0	13.0
10079500 - BEAR R AT ALEXANDER IDAHO (LAT 42 38 05 LONG 111 41 55)												
OCT., 1970												
22...	.60	--	--	466	79.1	390	51	.5	13	777	7.7	--
MAY , 1971												
05...	.38	.060	.10	330	1090	230	0	.5	16	593	7.8	12.5
JULY												
07...	.24	.030	.070	314	1980	230	0	.7	17	543	7.8	19.5
10090450 - WEST CACHE CA AT CORNISH UTAH (LAT 41 57 10 LONG 111 57 14)												
NOV., 1970												
05...	--	--	--	523	36.4	309	0	1.7	31	890	8.1	6.0
MAY , 1971												
25...	2.0	.010	--	--	--	470	150	2.2	33	1330	8.0	12.5
10092200 - BEAR R AT CORNISH UTAH (LAT 41 58 32 LONG 111 56 10)												
MAY , 1971												
25...	.17	.020	--	--	--	230	15	.7	19	527	8.0	11.5
10095400 - CUB RIVER AT FRANKLIN IDAHO (LAT 42 00 50 LONG 111 49 10)												
NOV., 1970												
05...	--	--	--	296	4.09	212	0	1.0	25	528	7.4	5.0
MAR., 1971												
30...	.10	--	--	230	--	200	11	.4	10	393	8.3	4.0
MAY												
25...	.46	.000	--	--	--	150	0	.1	4	294	8.2	10.0
AUG.												
17...	.44	.150	--	316	1.71	200	0	1.0	25	531	7.5	19.0
10096600 - WORM CREEK NR FAIRVIEW IDAHO (LAT 42 00 15 LONG 111 51 00)												
NOV., 1970												
05...	--	--	--	319	3.16	252	0	.6	15	582	8.1	5.0
MAY , 1971												
25...	3.0	.120	--	--	--	300	0	.6	15	645	8.2	12.0
10125500 - MALAD R AT WOODRUFF IDAHO (LAT 42 02 00 LONG 112 14 00)												
NOV., 1970												
06...	--	--	--	2250	236	536	165	12	70	4080	7.7	13.0
MAR., 1971												
09...	.01	--	--	1900	--	550	208	8.6	62	3220	7.9	9.0
MAY												
24...	.10	.030	--	--	--	440	59	7.0	60	2420	7.8	18.0
AUG.												
20...	.19	.020	--	3580	164	540	200	21	79	6530	7.6	27.0

12305000 KOOTENAI RIVER AT LEONIA, IDAHO

LOCATION.--Lat 48°37'04", long 116°03'47", in NW¼NW¼ sec.20, T.33 N., R.34 W. (Principal meridian), Lincoln County, Mont., temperature recorder at gaging station at Leonia, 450 ft east of Montana-Idaho State line, 0.5 mile upstream from Boulder Creek, and at mile 171.6.

DRAINAGE AREA.--11,740 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1971.
Water temperatures: July 1962 to May 1963, April 1965 to September 1971. No winter records.

EXTREMES, 1970-71:
Water temperatures: Maximum, 19.0° C Aug. 8-12, 14.

Period of record:
Water temperatures (1962-63, 1965-71): Maximum, 20° C Aug. 4, 1966; minimum (1962-63), freezing point on many days during winter months.

REMARKS.--No temperature record Oct. 1 to Mar. 23.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	FIELD BICAR-BONATE (HCO3) (MG/L)	FIELD CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT.												
20...	4830	--	40	12	--	--	142	0	32	2.8	.7	173
NOV.												
17...	4140	--	--	--	--	--	144	0	--	--	--	179
DEC.												
15...	3710	--	--	--	--	--	132	0	--	--	--	176
JAN.												
20...	5260	8.8	31	9.0	--	--	96	0	24	2.8	.6	156
FEB.												
24...	6410	--	--	--	--	--	108	0	--	--	--	120
MAR.												
24...	4090	--	--	--	--	--	127	0	--	--	--	162
APR.												
20...	12100	--	28	6.9	--	--	102	0	20	1.3	.4	104
MAY												
25...	48200	--	--	--	--	--	94	0	--	--	--	16
JUNE												
22...	42000	--	--	--	--	--	99	0	--	--	--	124
JULY												
27...	25700	--	25	7.1	--	--	98	0	16	1.8	.3	106
AUG.												
18...	10500	--	32	8.6	2.6	.6	104	0	20	3.5	.5	--
SEP.												
22...	6820	--	38	11	3.5	.7	137	0	33	3.1	.7	--

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	FIELD SPECI-FIC CONDUCTANCE (MICRO-MHOS)	FIELD PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	TEMP-ERATURE (DEG C)	AIR TEMP-ERATURE (DEG C)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.												
20...	2260	150	34	--	283	7.8	0	1	7.0	8.0	150	35
NOV.												
17...	2000	--	--	--	298	7.5	--	--	4.5	5.5	>1000	1000
DEC.												
15...	1760	--	--	--	269	7.1	--	--	1.5	-.5	610	540
JAN.												
20...	2220	110	31	--	219	7.1	--	--	.0	.5	470	260
FEB.												
24...	2080	--	--	--	229	7.6	--	--	2.0	3.5	310	180
MAR.												
24...	1790	--	--	--	281	8.1	--	--	3.5	4.5	70	--
APR.												
20...	3400	98	0	--	209	8.0	5	3	7.0	12.5	300	--
MAY												
25...	2080	--	--	--	175	7.6	--	--	10.5	14.5	2100	69
JUNE												
22...	14100	--	--	--	189	6.9	--	--	13.0	23.0	3200	58
JULY												
27...	7360	91	11	--	192	7.6	6	5	16.5	18.5	3300	33
AUG.												
18...	--	115	0	.1	254	8.0	7	1	18.0	33.5	1000	--
SEP.												
22...	--	140	0	.1	279	7.4	5	0	10.0	7.5	150	2

12305000 KOOTENAI RIVER AT LEONIA, IDAHO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	NITRATE (N) (MG/L)	NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS. HYDRO-LYZABLE PHOS-PHORUS (P) (MG/L)[1]	TOTAL PHOS-PHORUS (P) (MG/L)	FIELD DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.												
20...	.02	.000	.02	.00	.04	.110	.110	.120	12.5	110	.6	2.5
NOV.												
17...	.09	.000	.02	.00	.11	.180	.200	.200	14.4	118	3.9	.5
DEC.												
15...	.09	.010	.05	.01	.16	.160	.180	.180	14.8	113	4.9	1.5
JAN.												
20...	.09	.010	.02	.02	.14	.190	.200	1.6	14.9	107	2.2	1.5
FEB.												
24...	.20	.010	.17	.02	.50	.080	.130	--	14.0	108	4.9	1.0
MAR.												
24...	.10	.000	.93	.04	1.1	.150	.100	.150	13.0	104	3.7	2.0
APR.												
20...	.10	.000	.09	.22	.41	.040	.050	.060	12.2	107	2.3	2.0
MAY												
25...	.10	.000	.11	.24	.45	.050	.080	.110	12.2	112	1.5	3.5
JUNE												
22...	.00	.000	.09	.43	.52	.020	.020	.050	12.0	121	2.7	1.0
JULY												
27...	.00	.000	.17	.00	.17	.040	.060	.070	10.5	114	1.3	.0
AUG.												
18...	.00	.000	.11	.24	.35	.020	.050	.060	10.2	115	2.4	--
SEP.												
22...	.10	.000	.14	.09	.28	.030	.060	.070	11.0	104	1.5	--

1 Includes dissolved orthophosphorus.

DATE	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
JAN.					
20...	160	--	--	--	--
AUG.					
18...	20	0	0	130	.0
SEP.					
22...	20	0	4	20	.0

12305000 KOOTENAI RIVER AT LEONIA, IDAHO--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	4.0	3.5
25	---	---	---	---	---	---	---	---	---	---	4.5	3.5
26	---	---	---	---	---	---	---	---	---	---	4.5	4.0
27	---	---	---	---	---	---	---	---	---	---	5.0	4.0
28	---	---	---	---	---	---	---	---	---	---	4.5	4.0
29	---	---	---	---	---	---	---	---	---	---	5.0	4.5
30	---	---	---	---	---	---	---	---	---	---	5.5	5.0
31	---	---	---	---	---	---	---	---	---	---	5.5	5.0
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

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

12318500 KOOTENAI RIVER NEAR COPELAND, IDAHO

LOCATION.--Lat 48°54'43", long 116°24'59", in NW¼NW¼SW¼ sec.12, T.64 N., R.1 W., Boundary County, at county highway bridge, approximately 1 mile upstream from gaging station near Copeland, and at mile 123.2.
DRAINAGE AREA.--13,400 sq mi, approximately (upstream from gaging station).
PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1971.
Water temperatures: May 1966 to September 1971.
Sediment records: May 1966 to September 1971.
EXTREMES.--1970-71:
Water temperatures: Maximum, 22.0° C Aug. 16,17; minimum, freezing point Jan. 12-14.
Sediment concentrations: Maximum daily, 515 mg/l May 15; minimum daily, 1 mg/l many days during December, January, and March.
Sediment loads: Maximum daily, 120,000 tons May 15; minimum daily, 7 tons Jan. 6, 7.
Period of record:
Water temperatures: Maximum, 22.0° C Aug. 16,17, 1971; minimum, freezing point on several days during December, January, and February of most years.
Sediment concentrations: Maximum daily, 740 mg/l May 30, 1966; minimum daily, 1 mg/l on many days during 1968, 1969, and 1971.
Sediment loads: Maximum daily, 155,000 tons May 30, 1966; minimum daily, 7 tons Jan. 6, 7, 1971.
REMARKS.--This station is maintained by the United States in cooperation with Canada. No temperature record several days during the year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	FIELD BICAR-BONATE (HCO3) (MG/L)	FIELD CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT.												
20...	4610	--	38	11	--	--	132	0	33	2.7	.6	169
NOV.												
17...	4190	--	--	--	--	1.6	145	0	--	--	--	175
DEC.												
15...	4180	--	--	--	--	--	128	0	--	--	--	156
JAN.												
20...	6250	9.4	39	12	--	1.0	139	0	29	2.7	.6	170
FEB.												
24...	6750	--	--	--	--	--	100	0	--	--	--	120
MAR.												
24...	4630	--	35	11	--	1.0	122	0	--	--	--	140
APR.												
20...	13900	--	25	6.7	--	--	92	0	19	1.4	--	88
MAY												
26...	60500	--	20	4.6	--	.5	79	0	--	--	--	102
JUNE												
22...	46200	--	--	--	--	--	95	0	--	--	--	142
JULY												
27...	25900	--	23	6.6	1.5	.5	96	0	14	1.7	.2	114
AUG.												
18...	11000	--	31	8.4	2.5	.6	120	0	19	2.5	.5	--
SEP.												
22...	5340	--	35	11	3.1	.8	132	0	32	2.6	.7	--

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	FIELD SPECI-FIC COND-UCTANCE (MICRO-MHOS)	FIELD PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	TEMP-ERATURE (DEG C)	AIR TEMP-ERATURE (DEG C)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.												
20...	2100	140	32	--	262	7.7	0	10	7.0	6.5	140	100
NOV.												
17...	1980	--	--	--	295	7.1	--	--	4.0	7.0	--	80
DEC.												
15...	1760	--	--	--	258	7.8	--	--	.0	2.0	1100	215
JAN.												
20...	2870	150	36	--	291	8.3	3	--	.0	3.5	220	93
FEB.												
24...	2190	--	--	--	212	7.3	--	--	2.0	4.5	96	70
MAR.												
24...	1750	130	30	--	266	7.8	--	--	4.5	9.0	33	--
APR.												
20...	3300	90	0	--	190	7.8	5	4	7.5	7.5	180	--
MAY												
26...	16700	69	0	--	157	7.3	--	--	10.0	13.0	2400	49
JUNE												
22...	17700	--	--	--	182	7.0	--	--	12.5	24.5	2400	11
JULY												
27...	7970	85	6	.1	185	7.6	5	5	18.0	22.0	1100	1
AUG.												
18...	--	112	0	.1	234	7.2	5	1	19.0	19.0	350	--
SEP.												
22...	--	130	0	.1	270	7.3	3	1	11.5	18.0	39	5

12318500 KOOTENAI RIVER NEAR COPELAND, IDAHO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	NITRATE (N) (MG/L)	NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS. HYDRO-LYZABLE PHOS-PHORUS (P) (MG/L)[1]	TOTAL PHOS-PHORUS (P) (MG/L)	FIELD DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.												
20...	.02	.000	.06	.01	.09	.130	.140	.150	12.4	109	2.3	.0
NOV.												
17...	.05	.000	.03	.01	.09	.100	.170	.200	14.3	117	3.2	1.0
DEC.												
15...	.09	.020	.03	.00	.14	.130	.150	.150	14.8	108	1.0	1.0
JAN.												
20...	.09	.020	.07	.02	.20	.000	.000	1.8	14.3	104	1.0	1.5
FEB.												
24...	.19	.010	.07	.02	.29	.100	.070	.110	13.2	101	3.7	2.0
MAR.												
24...	.10	.000	.11	--	--	.080	.100	.110	12.7	105	2.9	1.0
APR.												
20...	.10	.000	.08	.18	.36	.040	.020	.050	11.7	104	2.1	2.0
MAY												
26...	.10	.000	.16	.15	.41	.040	.060	.100	10.9	103	.3	3.0
JUNE												
22...	.10	.000	.09	.40	.59	.020	.020	.050	11.7	117	2.1	1.0
JULY												
27...	.00	.000	.21	2.9	3.1	.040	.070	.080	9.7	109	.6	1.0
AUG.												
18...	.00	.000	.07	.29	.36	.020	.050	.060	9.1	103	.1	--
SEP.												
22...	.00	.000	.07	.12	.21	.040	.080	1.1	10.8	105	2.3	--

1 Includes dissolved orthophosphorus.

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)
OCT.											
20...	--	--	--	--	--	1	--	--	--	--	--
NOV.											
17...	0	40	0	--	--	1	7	1	0	0	0
DEC.											
15...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
20...	300	200	0	--	--	2	0	0	0	40	0
MAR.											
24...	500	60	390	--	--	1	7	0	2	60	2
MAY											
26...	600	70	80	--	--	0	3	2	3	50	0
JULY											
27...	500	10	10	80	8	<1	4	1	0	80	0
AUG.											
18...	--	20	--	--	--	--	--	0	0	170	--
SEP.											
22...	--	20	--	--	--	--	--	0	3	30	--

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
OCT.										
20...	0	--	--	.4	--	--	--	--	--	--
NOV.										
17...	0	3	0	.3	0	10	9	0	0	--
DEC.										
15...	--	--	--	--	--	--	--	--	--	<.5
JAN.										
20...	0	0	10	.0	1	0	13	--	20	<.5
MAR.										
24...	10	0	400	.0	--	5	0	0	10	<.5
MAY										
26...	0	0	0	.2	--	0	10	2	10	<.5
JULY										
27...	--	1	1000	2.2	0	0	2	2	10	.1
AUG.										
18...	--	--	--	--	--	--	--	--	--	.1
SEP.										
22...	--	--	--	--	--	--	--	--	--	.1

12318500 KOOTENAI RIVER NEAR COPELAND, IDAHO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL STRONTIUM (SR) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL BORON (B) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 20...	--	--	--	1	--	--	--	--	--	--	--
NOV. 17...	120	10	140	1	<10	5	20	--	--	20	.3
DEC. 15...	120	20	90	--	<10	60	20	--	--	<10	.2
JAN. 20...	<10	10	100	2	<10	<1	50	--	--	<10	.3
MAR. 24...	170	40	100	1	<10	12	30	--	--	<10	--
MAY 26...	1300	50	60	--	<10	9	30	--	--	--	--
JULY 27...	30	--	--	<1	<10	2	10	<1	<1	--	--

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	4.0	2.0	2.0	3.0	4.0	7.0	8.0	10.0	12.0	19.0	14.0
2	11.0	4.0	---	1.0	2.0	4.0	7.0	8.0	10.0	13.0	19.0	14.0
3	11.0	4.0	1.0	1.0	2.0	4.0	7.0	8.0	10.0	13.0	20.0	13.0
4	11.0	4.0	---	1.0	2.0	4.0	7.0	9.0	10.0	13.0	20.0	13.0
5	11.0	4.0	2.0	1.0	1.0	4.0	7.0	9.0	10.0	13.0	20.0	14.0
6	10.0	---	---	1.0	1.0	4.0	---	9.0	10.0	13.0	20.0	14.0
7	10.0	---	---	1.0	1.0	5.0	---	9.0	10.0	13.0	20.0	14.0
8	10.0	---	2.0	1.0	1.0	5.0	---	9.0	10.0	13.0	20.0	12.0
9	10.0	---	---	1.0	1.0	4.0	---	8.0	10.0	13.0	20.0	12.0
10	9.0	---	1.0	1.0	1.0	4.0	7.0	8.0	10.0	13.0	20.0	12.0
11	10.0	---	---	1.0	2.0	5.0	7.0	8.0	10.0	13.0	20.0	12.0
12	10.0	---	1.0	0	---	5.0	7.0	8.0	10.0	14.0	21.5	12.0
13	10.0	---	---	0	---	5.0	7.0	8.0	11.0	14.0	21.5	11.0
14	9.0	---	---	0	---	5.0	7.0	8.0	11.0	14.0	21.5	11.0
15	9.0	---	1.0	1.0	---	5.0	6.0	9.0	11.0	15.0	21.5	11.0
16	8.0	---	---	2.0	---	5.0	6.0	9.0	11.0	15.0	22.0	11.0
17	7.0	---	1.0	2.0	---	5.0	6.0	9.0	11.0	15.0	22.0	10.0
18	6.0	---	---	2.0	---	5.0	7.0	9.0	11.0	16.0	21.5	10.0
19	6.0	---	1.0	2.0	---	5.0	7.0	9.0	11.0	17.0	20.0	10.0
20	6.0	---	---	2.0	---	6.0	7.0	9.0	11.0	17.0	20.0	---
21	5.0	---	1.0	2.0	---	6.0	7.0	9.0	12.0	17.0	19.0	---
22	5.0	---	1.0	2.0	---	6.0	7.0	10.0	12.0	17.0	19.0	10.0
23	5.0	---	1.0	2.0	---	6.0	7.0	10.0	12.0	17.0	18.0	10.0
24	5.0	3.0	1.0	2.0	---	6.0	7.0	10.0	12.0	17.0	17.0	9.0
25	5.0	---	1.0	2.0	4.0	7.0	7.0	10.0	12.0	17.0	16.0	9.0
26	5.0	---	1.0	2.0	4.0	7.0	8.0	10.0	12.0	18.0	16.0	9.0
27	5.0	---	1.0	2.0	4.0	7.0	8.0	10.0	---	18.0	15.0	9.0
28	4.0	---	1.0	2.0	4.0	7.0	8.0	10.0	---	18.0	15.0	9.0
29	4.0	---	1.0	3.0	---	7.0	8.0	10.0	12.0	18.0	14.0	8.0
30	4.0	---	2.0	3.0	---	6.0	8.0	10.0	---	18.0	14.0	7.0
31	4.0	---	2.0	3.0	---	7.0	---	10.0	---	18.0	14.0	---
ONTH	7.5	---	---	1.5	---	5.5	7.0	9.0	11.0	15.0	19.0	11.0
YEAR	8.5											

12318500 KOOTENAI RIVER NEAR COPELAND, IDAHO--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCTOBER MEAN DISCHARGE (CFS)	OCTOBER MEAN CONCEN-TRATION (MG/L)	OCTOBER SEDIMENT DISCHARGE (TONS/DAY)	NOVEMBER MEAN DISCHARGE (CFS)	NOVEMBER MEAN CONCEN-TRATION (MG/L)	NOVEMBER SEDIMENT DISCHARGE (TONS/DAY)	DECEMBER MEAN DISCHARGE (CFS)	DECEMBER MEAN CONCEN-TRATION (MG/L)	DECEMBER SEDIMENT DISCHARGE (TONS/DAY)
1	5360	2	29	4890	2	26	3450	2	19
2	5420	2	29	4850	3	39	3540	2	19
3	5410	4	58	4820	6	78	3730	3	30
4	5370	5	72	4740	3	38	3670	4	40
5	5720	8	124	4750	3	38	3580	4	39
6	5590	7	106	4650	3	38	3700	4	40
7	5490	5	74	4610	3	37	4720	4	51
8	5620	4	61	4520	3	37	5690	5	77
9	5870	3	48	4930	3	40	5330	5	72
10	5770	4	62	5170	3	42	4970	5	67
11	5680	2	31	5040	3	41	4900	4	53
12	5760	3	47	4960	3	40	4500	4	49
13	5720	2	31	4880	3	40	3780	3	31
14	5640	2	30	4760	3	39	3780	3	31
15	5460	3	44	4750	3	38	4100	2	22
16	5300	3	43	4620	3	37	4330	2	23
17	5500	3	45	4740	3	38	4470	2	24
18	5220	4	56	4880	3	40	4430	2	24
19	5110	3	41	5010	3	41	4280	2	23
20	5050	8	109	5420	3	44	4220	2	23
21	4860	11	144	5400	3	44	3750	3	30
22	5110	4	55	5290	3	43	3430	2	19
23	5140	4	56	4020	3	33	3150	2	17
24	5250	3	43	3630	3	29	2820	1	7.6
25	5560	4	60	3800	3	31	2890	1	7.8
26	5410	4	58	3900	2	21	2980	2	16
27	5320	4	57	3850	2	21	3130	2	17
28	5140	6	83	3600	2	19	3510	1	9.5
29	5020	4	54	3420	2	18	3700	2	20
30	4970	5	67	3440	2	19	3940	3	32
31	4870	4	53	--	--	--	4240	3	34
TOTAL	166710	--	1870	137340	--	1089	122710	--	966.9

DAY	JANUARY MEAN DISCHARGE (CFS)	JANUARY MEAN CONCEN-TRATION (MG/L)	JANUARY SEDIMENT DISCHARGE (TONS/DAY)	FEBRUARY MEAN DISCHARGE (CFS)	FEBRUARY MEAN CONCEN-TRATION (MG/L)	FEBRUARY SEDIMENT DISCHARGE (TONS/DAY)	MARCH MEAN DISCHARGE (CFS)	MARCH MEAN CONCEN-TRATION (MG/L)	MARCH SEDIMENT DISCHARGE (TONS/DAY)
1	4050	3	33	18000	12	583	5760	6	93
2	3610	5	49	19300	52	2710	5460	4	59
3	3340	5	45	18200	70	3440	5280	3	43
4	3020	2	16	15100	57	2320	5480	3	44
5	2790	1	7.5	12500	37	1250	5280	2	29
6	2640	1	7.1	10100	15	436	5160	2	28
7	2750	1	7.4	8710	14	329	5020	1	14
8	2980	1	8.0	7900	14	299	4930	2	27
9	3240	1	8.7	7160	9	174	4900	4	53
10	3520	1	9.5	7490	10	202	4910	5	66
11	3610	1	9.7	7680	12	249	5100	8	110
12	3220	1	8.7	8030	12	260	5350	7	101
13	2900	1	7.8	8150	12	264	5630	6	91
14	3080	2	17	8330	11	247	5550	4	60
15	3280	5	53	8950	11	266	5330	4	58
16	3530	4	38	9950	11	296	5190	5	70
17	3910	4	42	10100	11	300	5200	3	42
18	4210	3	34	9570	11	284	4990	5	67
19	4910	3	40	8900	11	264	4890	6	79
20	6250	1	17	8220	10	222	4810	4	52
21	7290	2	39	7360	10	199	4870	5	66
22	7090	4	77	7180	10	194	4770	5	64
23	7100	3	58	6870	10	185	4710	3	38
24	6870	8	148	6540	10	177	4580	7	87
25	6850	7	129	6560	10	177	4710	7	89
26	6620	5	89	6460	6	105	5020	7	95
27	6380	5	86	6240	3	51	5420	9	132
28	6260	5	85	6040	3	49	5570	5	75
29	6310	3	51	--	--	--	5480	8	118
30	7070	2	38	--	--	--	5670	14	214
31	11400	4	123	--	--	--	6220	9	151
TOTAL	150080	--	1381.4	265590	--	15532	161240	--	2315

12318500 KOOTENAI RIVER NEAR COPELAND, IDAHO--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	APRIL MEAN DISCHARGE (CFS)	APRIL MEAN CONCEN-TRATION (MG/L)	APRIL SEDIMENT DISCHARGE (TONS/DAY)	MAY MEAN DISCHARGE (CFS)	MAY MEAN CONCEN-TRATION (MG/L)	MAY SEDIMENT DISCHARGE (TONS/DAY)	JUNE MEAN DISCHARGE (CFS)	JUNE MEAN CONCEN-TRATION (MG/L)	JUNE SEDIMENT DISCHARGE (TONS/DAY)
1	6460	8	140	30300	54	4420	81300	333	73100
2	6340	8	137	31700	52	4450	77600	272	57000
3	6290	8	136	36800	86	8540	73300	215	42600
4	6270	7	119	45400	153	18600	70400	175	37300
5	6370	8	138	55900	269	40600	70300	166	31900
6	6730	8	145	62400	368	62000	73100	207	40900
7	7440	8	161	64300	333	57800	75400	277	56400
8	9430	15	382	64600	239	41700	76200	347	71400
9	11100	39	1170	66300	265	47400	75900	278	57000
10	14500	46	1800	69600	298	56000	75400	235	48000
11	16500	29	1290	71500	315	60800	70300	208	39500
12	15600	25	1050	74100	320	64000	61500	167	27700
13	14100	18	685	80000	347	75000	57000	137	21100
14	13000	14	491	85300	350	80600	57400	131	20300
15	12700	15	514	68300	515	95000	58400	122	19200
16	13500	15	547	79100	409	87400	56900	135	20700
17	14300	16	618	66400	349	62600	51700	107	14900
18	14100	14	533	55200	252	37600	46800	105	13300
19	13400	13	470	47700	126	16200	43900	70	8300
20	13400	14	507	42900	89	10300	42800	41	4740
21	14900	14	563	40000	60	6480	43200	55	6420
22	19100	23	1190	38000	94	9640	47200	79	10100
23	23200	41	2570	38100	60	6170	51400	83	11500
24	28500	76	5850	41500	63	7060	56000	134	20300
25	31900	116	9990	49200	86	11400	60500	139	22700
26	35900	137	13300	58000	146	22900	61500	177	29400
27	36600	143	14100	68600	264	48900	51300	175	24200
28	34800	130	12200	77500	324	67800	51800	122	17100
29	32900	90	7990	84100	362	82200	45600	72	8860
30	31200	60	5050	87200	432	102000	40300	61	6640
31	--	--	--	85400	410	94500	--	--	--
TOTAL	510530	--	83836	1865400	--	1390260	1804400	--	862560

DAY	JULY MEAN DISCHARGE (CFS)	JULY MEAN CONCEN-TRATION (MG/L)	JULY SEDIMENT DISCHARGE (TONS/DAY)	AUGUST MEAN DISCHARGE (CFS)	AUGUST MEAN CONCEN-TRATION (MG/L)	AUGUST SEDIMENT DISCHARGE (TONS/DAY)	SEPTEMBER MEAN DISCHARGE (CFS)	SEPTEMBER MEAN CONCEN-TRATION (MG/L)	SEPTEMBER SEDIMENT DISCHARGE (TONS/DAY)
1	37500	62	6240	19500	11	579	8350	5	135
2	36400	61	6080	19100	10	516	8730	5	118
3	36700	54	5350	14700	17	675	9100	5	123
4	35900	51	4740	17200	15	697	9300	5	126
5	34400	55	5110	17900	12	580	9090	6	147
6	32300	41	3580	18000	16	778	8720	7	165
7	30700	39	3230	17700	11	526	8120	6	132
8	27200	36	2840	17000	9	413	7830	5	106
9	26000	39	2830	16400	9	399	7760	3	63
10	28000	52	3930	15700	7	297	6260	4	89
11	27900	38	2860	15000	11	446	8100	5	109
12	32500	40	3510	14300	8	309	7710	7	146
13	34600	40	3740	13600	8	294	7560	6	122
14	32500	36	3160	12900	8	279	7380	6	120
15	29700	25	2000	12500	10	338	7410	2	40
16	29000	22	1720	12000	11	356	7210	1	19
17	29700	18	1440	11500	9	279	6780	3	55
18	31200	14	1180	10800	8	233	6510	4	70
19	32000	16	1380	11300	9	275	6290	5	102
20	31300	17	1440	9800	12	318	6370	5	86
21	31500	19	1620	9400	9	228	6090	4	66
22	32100	19	1650	9080	8	196	5950	3	48
23	31900	19	1640	8940	7	169	5880	2	32
24	31200	19	1600	8940	6	145	5750	4	62
25	29900	19	1530	9020	5	122	5620	7	106
26	28800	14	1090	8940	5	145	5470	4	59
27	25500	13	895	8620	9	207	5570	3	30
28	23000	12	745	8210	7	155	5580	2	30
29	21600	12	700	7980	5	108	5700	3	46
30	21300	12	690	7810	5	105	6020	4	65
31	20600	11	612	8000	5	130	--	--	--
TOTAL	936300	--	79372	391740	--	10297	214210	--	2617

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 6726250
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 2452096.3

12322000 KOOTENAI RIVER AT PORTHILL, IDAHO

LOCATION.--Lat 49°00'00", long 116°30'10", in SW¼ sec.8, T.65 N., R.1 W., Boundary County, temperature recorder at gaging station on right bank, 300 ft upstream from international boundary at Porthill, and at mile 105.63.
DRAINAGE AREA.--13,700 sq mi, approximately.
PERIOD OF RECORD.--Chemical analyses: January 1949 to September 1950.
Water temperatures: January 1949 to September 1950, May 1963 to September 1971.
EXTREMES.--1970-71:
Water temperatures: Maximum, 21.5° C Aug. 11-15; minimum, freezing point many days during December, January, and February.
Period of record:
Water temperatures: Maximum (1949-50, 1963-71), 21.5° C July 21, 1970, and Aug. 11-15, 1971; minimum (1949-50, 1963-65, 1966-71), freezing point on many days during winter months of most years.
REMARKS.--No record available Apr. 1-9.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.5	11.5	6.0	6.0	2.0	1.5	0	0	0	0	0.5	0.5
2	11.5	11.5	6.0	6.0	1.5	1.5	0	0	0	0	0.5	0.5
3	11.5	11.5	6.0	5.5	1.5	1.0	0	0	0	0	0.5	0.5
4	11.5	11.5	5.5	5.0	1.0	0.5	0	0	0	0	1.0	0.5
5	11.5	11.5	5.0	5.0	1.0	1.0	0	0	0	0	1.0	0.5
6	12.0	11.5	5.0	4.5	1.0	0.5	0	0	0	0	0.5	0.5
7	12.0	11.5	4.5	4.5	0.5	0.5	0	0	0	0	0.5	0.5
8	12.0	11.5	4.5	4.5	0.5	0.5	0	0	0	0	0.5	0.5
9	11.5	11.5	4.5	4.0	0.5	0.5	0	0	0	0	0.5	0.5
10	11.5	11.0	4.0	4.0	0.5	0.5	0	0	0	0	0.5	0.5
11	11.0	11.0	4.0	3.5	0.5	0.5	0	0	0	0	1.0	0.5
12	11.0	10.5	3.5	3.0	0.5	0.5	0	0	0	0	1.0	1.0
13	10.5	10.5	3.0	3.0	0.5	0.5	0	0	0	0	1.0	1.0
14	10.5	10.0	3.0	3.0	0.5	0.5	0	0	0	0	1.5	1.0
15	10.0	9.5	3.0	3.0	0.5	0	0	0	0	0	1.5	1.5
16	9.5	9.0	3.0	3.0	0	0	0	0	0	0	2.0	1.5
17	9.0	9.0	3.0	3.0	0	0	0	0	0	0	2.0	2.0
18	9.0	8.5	3.5	3.0	0	0	0	0	0	0	3.5	2.0
19	8.5	8.5	3.5	3.5	0	0	0	0	0	0	3.5	3.5
20	8.5	8.5	3.5	3.5	0	0	0	0	0	0	3.5	3.5
21	8.5	8.5	3.5	3.5	0	0	0	0	0	0	4.0	3.5
22	8.5	8.5	3.5	3.5	0	0	0	0	0	0	4.0	4.0
23	8.5	8.0	3.5	3.5	0	0	0	0	0	0	4.0	3.5
24	8.0	8.0	3.5	3.0	0	0	0	0	0	0	4.5	3.5
25	8.0	7.0	3.0	3.0	0	0	0	0	0	0	4.5	3.5
26	7.0	6.5	3.0	3.0	0	0	0	0	0	0	4.0	2.0
27	6.5	6.5	3.0	3.0	0	0	0	0	0	0	4.0	3.0
28	6.5	6.5	3.0	2.0	0	0	0	0	0.5	0	4.0	3.0
29	6.5	6.5	2.0	2.0	0	0	0	0	---	---	5.0	3.5
30	6.5	6.5	2.0	2.0	0	0	0	0	---	---	5.5	4.5
31	6.5	6.0	---	---	0	0	0	0	---	---	---	---
MONTH	12.0	6.0	6.0	2.0	2.0	0	0	0	0.5	0	5.5	0.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	8.5	8.0	11.0	10.5	11.5	11.0	18.5	18.0	19.5	19.5
2	---	---	8.5	8.0	10.5	10.5	13.0	11.5	19.0	18.5	19.5	19.0
3	---	---	9.0	8.5	10.5	10.5	14.0	13.0	19.5	19.0	19.0	18.5
4	---	---	9.5	9.0	10.5	10.5	14.0	14.0	20.0	19.5	18.5	18.0
5	---	---	9.5	9.5	10.5	10.5	14.0	14.0	20.5	20.0	18.0	17.0
6	---	---	9.5	9.0	10.5	10.5	14.0	13.5	20.5	20.5	17.0	16.0
7	---	---	9.0	8.5	10.5	10.0	13.5	13.5	20.5	20.5	16.0	15.5
8	---	---	9.0	8.5	10.5	10.0	13.5	13.0	21.0	20.5	16.0	15.5
9	---	---	9.5	8.5	11.0	10.5	13.0	12.0	21.0	20.5	16.0	15.0
10	8.5	8.5	9.5	9.5	11.0	11.0	13.0	12.0	21.0	20.5	15.5	15.0
11	8.5	8.0	10.0	9.5	11.0	10.5	13.0	12.0	21.5	21.0	15.5	15.5
12	8.0	7.0	10.5	10.0	10.5	10.5	13.5	13.0	21.5	21.0	15.5	15.5
13	7.0	7.0	11.0	10.5	11.0	10.5	13.5	13.5	21.5	21.0	15.5	15.0
14	7.0	7.0	11.0	10.5	11.5	11.0	13.5	13.5	21.5	21.0	15.5	15.0
15	7.0	7.0	10.5	10.0	11.5	11.5	14.5	13.5	21.5	21.0	15.5	15.0
16	8.5	7.0	10.0	9.5	11.5	11.0	15.0	14.5	21.0	20.5	15.5	15.0
17	8.5	8.5	9.5	9.0	11.0	10.5	15.5	15.0	20.5	20.5	15.0	14.5
18	9.0	8.5	9.0	9.0	11.0	10.5	16.5	15.5	21.0	20.5	15.0	14.5
19	9.0	8.5	9.5	9.0	11.0	11.0	17.0	16.5	20.5	20.5	14.5	14.0
20	9.0	8.5	9.5	9.5	11.0	11.0	18.0	17.0	20.5	20.0	14.0	14.0
21	8.5	8.5	9.5	9.5	11.5	11.0	18.0	18.0	20.0	20.0	14.0	13.5
22	9.0	8.5	10.0	9.5	12.0	11.5	18.5	18.0	20.0	19.5	13.5	13.0
23	9.0	8.5	10.0	9.5	14.0	12.0	18.5	18.0	20.0	19.5	13.5	13.0
24	8.5	8.5	11.0	10.0	14.5	14.0	18.5	18.0	20.0	19.5	13.0	12.0
25	8.5	8.5	12.0	11.0	14.5	14.0	18.5	18.5	19.5	19.0	12.0	12.0
26	8.5	8.5	12.0	12.0	14.0	13.5	18.5	18.5	19.0	19.0	12.0	12.0
27	8.5	8.5	12.0	12.0	13.5	13.0	18.5	18.5	19.0	18.5	12.0	12.0
28	8.5	8.5	12.0	12.0	13.0	12.0	18.5	18.5	19.5	19.0	12.0	11.5
29	8.5	8.5	12.0	12.0	12.0	11.5	18.5	18.5	19.5	18.5	11.5	11.5
30	8.5	8.0	12.0	11.5	11.5	11.0	18.5	18.5	19.5	19.0	11.5	11.5
31	---	---	11.5	11.0	---	---	18.5	18.5	19.5	19.0	---	---
MONTH	---	---	12.0	8.0	14.5	10.0	18.5	11.0	21.5	18.0	19.5	11.5
YEAR	21.5	0										

PEND OREILLE RIVER BASIN

12392050 CLARK FORK AT CLARK FORK, IDAHO

LOCATION.--Lat 48°08'17", long 116°10'46", in SW¼SW¼ sec.2, T.56 N., R.2 E., Bonner County, 6.5 miles downstream from gaging station, at county road crossing, and 0.5 mile south of Clark Fork.

DRAINAGE AREA.--22,067 sq mi (at gaging station).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1971.

REMARKS.--600 cfs added to discharge at gaging station for inflow.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	FIELD BICAR-BONATE (HCO3) (MG/L)	FIELD CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT.												
21...	22700	--	29	7.6	--	--	110	0	13	.9	--	67
NOV.												
18...	16700	--	--	--	--	1.1	124	0	--	--	--	138
DEC.												
14...	21800	--	--	--	--	--	124	0	--	--	--	146
JAN.												
19...	29900	5.4	31	7.7	--	.8	105	0	14	.8	.1	120
FEB.												
23...	20000	--	--	--	--	--	94	0	--	--	--	102
MAR.												
23...	29200	--	28	7.6	--	.9	109	0	--	--	--	110
APR.												
19...	35800	--	23	6.7	--	--	98	0	5.0	1.3	--	128
MAY												
24...	42400	--	21	4.5	--	.6	85	0	--	--	--	92
JUNE												
21...	49400	--	--	--	--	--	84	0	--	--	--	102
JULY												
26...	33300	--	22	5.7	2.1	.5	96	0	8.3	.9	.2	106
AUG.												
17...	21300	--	24	6.6	2.5	.9	107	0	8.0	10	.3	--
SEP.												
21...	15700	--	27	7.2	3.5	1.1	119	0	9.3	.7	.3	--

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	FIELD SPECI-FIC COND-UCTANCE (MICRO-MHOS)	FIELD PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	TEMP-ERATURE (DEG C)	AIR TEMP-ERATURE (DEG C)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.												
21...	4020	100	--	--	212	7.7	0	1	10.5	13.5	73	26
NOV.												
18...	6220	--	--	--	216	7.7	--	--	6.5	6.0	22	6
DEC.												
14...	8590	--	--	--	229	6.9	--	--	2.0	.0	--	68
JAN.												
19...	9840	110	24	--	213	7.4	--	--	1.5	9.0	170	9
FEB.												
23...	5510	--	--	--	185	6.8	--	--	3.0	--	17	16
MAR.												
23...	8670	100	11	--	203	7.8	--	--	4.0	9.0	12	2
APR.												
19...	12400	85	5	--	189	7.7	5	2	8.0	14.0	100	100
MAY												
24...	10500	71	0	--	160	6.9	--	--	9.5	22.5	360	6
JUNE												
21...	13600	--	--	--	152	6.8	--	--	14.0	26.0	390	6
JULY												
26...	9530	78	4	.1	174	7.9	5	1	21.0	24.5	580	0
AUG.												
17...	--	87	0	.1	185	7.9	5	1	22.0	24.5	5600	--
SEP.												
21...	--	97	0	.2	208	6.8	4	0	16.0	15.0	180	1

12392050 CLARK FORK AT CLARK FORK, IDAHO--Continued

DATE	NITRATE (N) (MG/L)	NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS. HYDRO-LYZABLE PHOS-PHORUS (P) (MG/L)[1]	TOTAL PHOS-PHORUS (P) (MG/L)	FIELD DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 21...	.02	--	.03	.02	--	.000	.010	--	11.6	111	2.3	1.0
NOV. 18...	.02	.000	.02	.00	.04	.000	.010	--	13.3	117	1.1	.5
DEC. 14...	.05	.000	.01	.00	.06	.000	.010	.020	13.2	104	3.0	2.0
JAN. 19...	.05	.000	.05	.03	.13	.000	.000	1.1	14.2	109	1.8	1.0
FEB. 23...	.02	.000	.00	.00	.02	.010	.030	.030	15.3	121	5.3	1.0
MAR. 23...	.1	.000	.19	.28	.57	.000	.000	.010	13.0	107	3.8	1.0
APR. 19...	--	--	--	--	--	--	--	--	13.2	120	3.2	1.0
MAY 24...	.03	.000	.08	.16	.27	.000	.020	.050	13.6	128	.2	1.0
JUNE 21...	.4	.000	.04	--	--	--	--	.030	12.7	132	3.0	--
JULY 26...	.00	.000	.12	.15	.27	.020	.040	.050	9.5	114	1.9	1.0
AUG. 17...	.00	.010	.08	.28	.37	.010	.040	.040	8.4	102	.2	--
SEP. 21...	.1	.000	.10	.17	.39	.010	.040	2.0	9.7	104	.6	--

1 Includes dissolved orthophosphorous.

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)
OCT. 21...	0	20	10	--	--	1	4	1	0	0	2
NOV. 18...	0	30	30	--	--	1	6	0	0	10	0
DEC. 14...	0	60	0	--	--	0	3	4	0	0	3
JAN. 19...	200	100	0	--	--	0	0	0	0	40	0
FEB. 23...	500	120	48	--	--	--	--	0	2	250	--
MAR. 23...	400	20	30	--	--	0	2	2	0	50	2
APR. 19...	500	50	30	--	--	--	--	--	0	200	0
MAY 24...	400	30	20	--	--	--	4	2	2	90	0
JUNE 21...	600	40	45	--	--	--	--	--	--	50	--
JULY 26...	300	10	10	0	4	0	3	2	0	100	1
AUG. 17...	--	20	--	--	--	--	--	1	0	360	--
SEP. 21...	--	30	--	--	--	--	--	0	4	10	--

12392050 CLARK FORK AT CLARK FORK, IDAHO--Continued

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
OCT. 21...	--	1	300	--	0	0	30	--	0	1.0
NOV. 18...	0	1	0	.0	0	0	--	0	0	1.8
DEC. 14...	--	1	0	--	0	--	--	0	0	--
JAN. 19...	0	1	0	1.0	1	0	0	0	<10	--
FEB. 23...	--	--	900	--	--	0	--	--	0	<.5
MAR. 23...	0	1	200	.0	--	7	0	0	<10	<.5
APR. 19...	--	--	100	--	--	0	--	--	10	<.5
MAY 24...	0	1	1600	.5	--	0	0	2	10	<.5
JUNE 21...	--	--	300	--	--	0	--	--	0	--
JULY 26...	--	2	100	1.2	0	0	0	1	20	.2
AUG. 17...	--	--	--	--	--	--	--	--	--	.1
SEP. 21...	--	--	--	--	--	--	--	--	--	.1

DATE	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL STRON-TIUM (SR) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL BORON (B) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 21...	10	20	120	--	<10	1	80	<10	1	<10	.2
NOV. 18...	20	<10	50	--	<10	3	<10	--	--	<10	<.1
DEC. 14...	40	10	80	--	<10	65	<10	--	--	<10	.2
JAN. 19...	<10	<10	40	--	<10	<1	100	--	--	<10	<.1
FEB. 23...	90	10	60	--	<10	<1	<10	--	--	20	<.1
MAR. 23...	50	20	60	--	<10	3	20	--	--	<10	--
APR. 19...	30	20	50	--	10	1	10	--	--	<10	--
MAY 24...	140	20	30	--	<10	3	10	--	--	<10	--
JUNE 21...	70	10	90	--	<10	8	10	--	--	<10	--
JULY 26...	<10	--	--	--	<10	2	30	<1	1	--	--
AUG. 17...	--	--	--	--	--	--	--	--	--	--	--
SEP. 21...	--	--	--	<1	--	--	--	--	--	--	--

12413300 SOUTH FORK COEUR D'ALENE RIVER AT SMELTERVILLE, IDAHO

LOCATION.--Lat 47°32'55", long 116°10'25", in SW¼ sec.35, T.49 N., R.2 E., Shoshone County, at gaging station on left bank 490 ft downstream from county road bridge, 0.2 mile downstream from Government Gulch, 0.6 mile northwest of Smelterville Post Office, and at mile 5.0.

DRAINAGE AREA.--202 sq mi.

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

REMARKS.--This station was reported as a miscellaneous site for the period October 1967 to September 1968.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
OCT.										
08...	106	17	46	16	17	3.8	7	0	218	5.5
FEB.										
02...	1670	12	16	3.8	2.4	1.0	31	0	36	.9
AUG.										
30...	152	16	37	12	7.5	2.0	28	0	150	1.8
SEP.										
07...	146	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM
OCT.										
08...	.7	.25	.650	330	.50	106	181	175	.6	17
FEB.										
02...	--	.30	.100	88	.12	397	56	31	.1	8
AUG.										
30...	4.5	.28	4.2	269	.37	110	140	120	.3	10
SEP.										
07...	--	--	--	--	--	--	--	--	--	--

DATE	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	AIR TEMP-ERATURE (DEG C)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	FIELD DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.									
08...	512	5.8	8.0	6.0	4300	3600	10.8	99	1.0
FEB.									
02...	127	6.7	3.5	1.0	4100	830	12.7	104	3.5
AUG.									
30...	404	6.1	19.5	26.0	9000	16	9.1	106	--
SEP.									
07...	--	--	13.0	--	--	--	--	--	--

12413300 SOUTH FORK COEUR D'ALENE RIVER AT SMELTERVILLE, IDAHO--Continued

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)
OCT.												
08...	--	--	--	--	--	<1	--	--	--	5	19000	14
FEB.												
02...	0	400	66	70	0	--	1	0	4	3	2800	1
AUG.												
30...	800	1500	3500	230	10	--	0	120	3	1	13000	8

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
OCT.										
08...	29	21	--	--	--	--	--	--	--	--
FEB.										
02...	20	12	130	.8	1	0	0	0	--	.4
AUG.										
30...	0	65	100	5.4	0	0	0	8	10	.0

DATE	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.							
08...	--	--	--	--	--	--	6.8
FEB.							
02...	--	--	--	--	--	--	.2
AUG.							
30...	2	30	290	12000	36	130	--

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	WATER TEM-PERA-TURE (°C)	DIS-CHARGE (CFS)	CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCT.					
08...	1030	8.0	106	32	9
FEB.					
02...	1510	3.5	1670	131	591
SEPT.					
07...	1115	13.0	146	14	6

12416000 HAYDEN CREEK BELOW NORTH FORK, NEAR HAYDEN LAKE, IDAHO
(Hydrologic bench-mark and pesticide station)

LOCATION.--Lat 47°49'22", long 116°39'10", in NW¼SW¼ sec.25, T.52 N., R.3 W., Kootenai County, at gaging station on right bank, 0.3 mile downstream from confluence of East Fork and North Fork, and 7.5 miles northeast of Hayden Lake Post Office.

DRAINAGE AREA.--22.0 sq mi.

PERIOD OF RECORD.--Chemical analyses: November 1966 to September 1971.

REMARKS.--This station was reported as a miscellaneous site for the period November 1966 to September 1967.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	FIELD BICAR-BONATE (HCO3) (MG/L)	FIELD CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)
OCT.												
21...	5.6	14	13	2.8	1.6	.6	47	0	3.2	3.0	.1	.00
NOV.												
18...	7.5	13	9.9	3.3	1.5	2.9	71	0	3.5	.5	.0	.05
DEC.												
14...	8.3	--	8.6	3.0	1.4	.6	40	0	--	--	--	--
JAN.												
19...	33	12	6.7	2.6	1.1	.6	26	0	1.5	.3	.1	.00
FEB.												
23...	40	14	12	2.1	1.3	.3	28	0	1.5	.6	.4	.20
MAR.												
23...	23	13	8.0	2.9	1.5	.5	36	0	4.8	.4	.3	.00
APR.												
19...	55	--	--	--	--	--	30	0	--	--	--	--
MAY												
24...	67	13	5.6	1.4	1.1	.5	28	0	--	.3	.0	.01
JUNE												
21...	30	14	7.1	2.5	1.3	.3	36	0	14	.2	.0	.00
JULY												
26...	11	14	8.8	2.8	1.5	.6	46	0	3.0	.6	.1	.02
AUG.												
17...	7.4	14	9.4	2.5	1.6	.6	53	0	1.8	.9	.2	.02
SEP.												
21...	5.2	14	9.9	2.7	1.5	.7	46	0	1.3	.5	.2	.02

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	FIELD SPECI-FIC COND-UCTANCE (MICRO-MHOS)	FIELD PH (UNITS)	TEMP-ERATURE (DEG C)	AIR TEMP-ERATURE (DEG C)
OCT.												
21...	.000	60	61	.91	44	5	.1	7	80	6.0	6.0	5.5
NOV.												
18...	.030	52	59	1.05	38	0	.1	7	79	6.9	4.5	4.0
DEC.												
14...	--	--	--	--	34	1	.1	8	70	--	.5	-2.0
JAN.												
19...	.000	--	42	3.74	27	0	.1	8	63	6.3	2.5	7.0
FEB.												
23...	.030	--	50	5.40	38	8	.1	7	51	6.4	3.0	2.0
MAR.												
23...	--	--	50	3.10	32	1	.1	9	60	6.7	2.5	6.0
APR.												
19...	--	--	--	--	--	--	--	--	52	6.1	4.0	11.5
MAY												
24...	.030	--	--	--	20	0	.1	11	49	6.4	6.5	5.0
JUNE												
21...	.050	--	50	4.05	28	10	.1	9	62	6.4	9.0	17.5
JULY												
26...	.050	--	57	1.69	33	0	.1	9	72	7.6	11.0	10.5
AUG.												
17...	.010	--	58	1.16	34	0	.1	9	78	7.3	10.5	19.0
SEP.												
21...	.850	--	58	.81	36	0	.1	8	73	5.8	9.0	5.5

12416000 HAYDEN CREEK BELOW NORTH FORK, NEAR HAYDEN LAKE, IDAHO--Continued

DATE	TIME	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	FIELD DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.							
21...	1100	120	1	12.2	106	1.2	.0
NOV.							
18...	0915	35	9	14.8	124	1.8	1.0
DEC.							
14...	0915		100	13.9	105	3.5	1.0
JAN.							
19...	0900	250	58	13.6	109	2.2	--
FEB.							
23...	0840	96	20	12.6	101	3.8	--
MAR.							
23...	0845	--	25	13.1	104	2.9	.0
APR.							
19...	0930	100	--	12.7	105	2.2	.0
MAY							
24...	0845	170	--	11.2	99	.3	--
JUNE							
21...	0840	5700	5	10.6	100	1.3	--
JULY							
26...	0805	2600	1	10.9	107	2.6	.0
AUG.							
17...	0900	2200	--	10.3	100	1.1	--
SEP.							
21...	1000	850	4	11.8	111	.9	--

DATE	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED LITHIUM (LI) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.											
21...	--	--	--	--	--	<1	--	--	--	3	62
DEC.											
14...	0	20	0	--	--	--	0	8	1	0	0
JAN.											
19...	600	260	0	100	0	--	1	3	0	0	100
FEB.											
23...	--	120	130	--	--	--	--	--	--	--	--
MAR.											
23...	--	20	0	--	--	--	--	--	--	--	--
MAY											
24...	--	10	30	--	--	--	--	--	--	--	--
JUNE											
21...	--	10	--	--	--	--	--	--	--	--	--
JULY											
26...	--	10	--	110	3	--	--	--	--	--	--
AUG.											
17...	--	0	--	--	--	--	--	--	--	--	--
SEP.											
21...	100	10	40	40	0	--	0	--	--	--	0

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)	DISSOLVED VANADIUM (V) (UG/L)	DISSOLVED SILVER (AG) (UG/L)	DISSOLVED BERYLLIUM (BE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED MOLYBDENUM (MO) (UG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED COBALT (CO) (UG/L)
OCT.											
21...	1	<1	--	--	--	--	--	--	--	--	<1
DEC.											
14...	12	0	0	.0	0	10	--	0	--	--	2
JAN.											
19...	0	0	0	6.0	0	--	13	--	20	--	0
FEB.											
23...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
23...	--	--	--	--	--	--	--	--	--	--	--
MAY											
24...	--	--	--	--	--	--	--	--	--	--	--
JUNE											
21...	--	--	--	--	--	--	--	--	--	--	--
JULY											
26...	--	--	--	--	--	0	--	--	0	--	--
AUG.											
17...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
21...	0	--	300	.0	--	0	10	0	10	.1	--

12416000 HAYDEN CREEK BELOW NORTH FORK, NEAR HAYDEN LAKE, IDAHO--Continued

DATE	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 21...	--	--	--	--	--	--	<.5
DEC. 14...	0	--	--	--	--	--	--
JAN. 19...	1	--	--	--	--	--	--
SEP. 21...	6	8	7	10	<1	1	--

DATE	DISCHARGE (CFS)	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)
SEP. 21...	5.2	.00	.00	.00	.00	.00	.00	.00	.00

DATE	LINDANE (UG/L)	2,4-D (UG/L)	SILVEX (UG/L)	2,4,5-T (UG/L)	CHLORDANE (UG/L)	PARATHION (UG/L)	METHYL PARATHION (UG/L)	MALATHION (UG/L)	DIAZINON (UG/L)
SEP. 21...	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)
SEP. 21...	<.20	<.20	<.20	3.8	<.20	<.20	<.20

DATE	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	MALATHION IN BOTTOM DEPOSITS (UG/KG)
SEP. 21...	<.20	<.20	<1.0	<.20	<.20	<.20

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT. 21...	1100	6.0	5.6	1	.02
NOV. 18...	0915	4.5	7.5	1	.02
DEC. 14...	0915	.5	8.3	5	.10
JAN. 19...	0900	2.5	33	7	.62
FEB. 23...	0840	3.0	40	5	.50
MAR. 23...	0845	2.5	23	1	.06
APR. 19...	0930	4.0	55	1	.15
MAY 24...	0845	6.5	67	3	.54
JUNE 21...	0840	9.0	30	1	.08
JULY 26...	0805	11.0	11	1	.03
AUG. 17...	0900	10.5	7.4	1	.02
SEP. 21...	1000	9.0	5.2	1	.01

12419500 SPOKANE RIVER ABOVE LIBERTY BRIDGE, NEAR OTIS ORCHARDS, WASH.

LOCATION.--Lat 47°41'55", long 117°02'35", in NW¼NW¼ sec.6, T.25 N., R.46 E., Spokane County, at bridge on U.S. Highway 10 at State line, 2.1 miles upstream from gaging station, 3.3 miles upstream from Liberty Bridge, 3.5 miles east of Otis Orchards, and at mile 96.0.
DRAINAGE AREA.--3,880 sq mi, approximately (at gaging station).
PERIOD OF RECORD.--Chemical analyses: July 1959 to September 1971.
Water temperatures: December 1963 to September 1965.
REMARKS.--Coliform, dissolved oxygen, and temperature data furnished by Washington State Water Pollution Control Commission. No appreciable inflow between sampling point and gaging station except during period of heavy local runoff.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	TEMPERATURE (DEG C)	IMMEDIATE COLIFORM (COL. PER 100 ML)	DISSOLVED OXYGEN (MG/L)
NOV.									
30...	1030	3890	68	6.7	14	1	6.1	185	12.8
DEC.									
14...	1000	3820	62	7.2	0	2	4.4	100	10.4
JAN.									
03...	1315	3310	63	7.2	2	1	2.8	300	11.7
24...	1415	5450	64	7.0	19	2	2.7	210	10.3
31...	0800	11000	63	7.1	19	2	3.7	100	11.7
FEB.									
15...	1000	10200	63	7.2	30	4	3.2	77	12.1
28...	0915	9790	62	7.2	14	3	2.0	190	11.9
MAR.									
14...	0815	7200	62	7.2	19	4	2.1	230	11.7
APR.									
04...	1420	8410	61	7.2	15	3	4.7	40	11.7
18...	0850	14000	62	7.1	18	5	4.5	200	11.6
MAY									
02...	1145	18100	59	7.3	19	4	8.1	20	11.5
16...	0850	33000	49	7.1	17	5	9.5	38	11.4
JUNE									
01...	0815	23700	41	7.3	25	3	11.9	250	12.4
13...	0915	17200	44	7.2	13	2	13.5	350	12.1
JULY									
11...	1025	4850	43	7.2	13	1	16.7	400	9.9
25...	1010	2800	57	7.6	16	1	23.4	400	7.6
AUG.									
01...	1240	1680	61	7.5	8	2	25.2	400	8.0
15...	1245	1420	57	7.7	13	1	29.2	1600	8.2
SEP.									
06...	1205	1750	54	7.5	8	1	17.8	2000	9.8
19...	1225	1740	48	7.5	10	2	16.4	130	9.8

DATE	TOTAL STRONTIUM (SR) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
NOV.						
30...	0	0	0	0	430	.0
DEC.						
14...	0	0	50	0	40	.0
JAN.						
03...	0	0	0	0	400	.0
24...	0	0	0	0	450	.3
31...	0	0	0	0	470	.3
FEB.						
15...	0	0	0	0	730	.1
28...	0	0	0	0	500	.0
MAR.						
14...	30	1	0	6	610	.1
APR.						
04...	160	0	0	8	490	.1
18...	200	2	0	10	220	.5
MAY						
02...	70	0	0	19	210	4.0
16...	120	1	0	25	210	.4
JUNE						
01...	60	0	1	22	290	.3
13...	150	0	0	0	190	.7
JULY						
11...	330	0	0	0	190	3.0
25...	340	0	1	7	120	.2
AUG.						
01...	90	0	1	4	230	2.7
15...	4	0	2	3	120	2.5
SEP.						
06...	40	0	1	6	180	.6
19...	100	4	0	6	160	.7

13022500 SNAKE RIVER ABOVE RESERVOIR, NEAR ALPINE, WYO.

LOCATION.--Lat 43°11'47", long 110°53'18", Lincoln County, sampled at bridge at Astoria Springs, Teton County, 3 miles downstream from Hoback River, 13 miles upstream from gaging station, and 15 miles northeast of Alpine.

DRAINAGE AREA.--3,465 sq mi (at gaging station).

PERIOD OF RECORD.--Chemical analyses: October 1965 to September 1971.
Water temperatures: October 1965 to September 1966.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
OCT.												
10...	1550	2360	11	49	11	7.4	1.6	134	6	53	4.6	.5
NOV.												
04...	1100	1770	12	55	11	7.1	1.7	146	0	66	6.1	.5
DEC.												
01...	0925	1900	9.7	49	11	7.1	1.6	146	0	54	3.2	.4
JAN.												
07...	0900	--	13	52	12	8.7	1.7	154	0	69	4.5	.5
FEB.												
01...	1700	1750	15	53	13	7.1	2.2	146	0	63	7.0	.5
APR.												
08...	1530	2340	12	51	8.3	8.2	2.0	137	0	52	4.3	.5
MAY												
17...	1625	--	9.7	34	5.3	6.5	1.3	109	0	23	2.5	.4
JUNE												
02...	1410	15800	9.9	36	4.4	5.3	1.6	114	0	20	2.2	.3
JULY												
10...	1620	14780	9.9	33	5.7	7.1	1.1	112	0	23	3.7	.3
AUG.												
03...	1630	8900	11	34	6.1	5.8	1.6	102	0	31	2.2	.4
SEP.												
03...	1100	6440	11	34	7.2	6.6	2.4	108	0	34	3.1	.5

DATE	NITRATE (NO3) (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	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
OCT.											
10...	.2	20	210	.29	1350	170	50	.2	339	8.3	9.0
NOV.											
04...	.1	60	232	.30	1060	180	60	.2	384	8.2	1.5
DEC.											
01...	.2	120	208	.29	1100	170	50	.2	346	8.1	1.5
JAN.											
07...	.2	60	238	.32	--	180	54	.3	378	8.0	.0
FEB.											
01...	.2	30	233	.31	1070	190	70	.2	363	8.1	.5
APR.											
08...	.3	30	206	.28	1310	160	48	.3	316	8.3	6.0
MAY											
17...	.4	80	136	.18	--	110	21	.3	222	7.7	5.5
JUNE											
02...	.3	30	136	.19	6060	110	16	.2	227	8.0	10.0
JULY											
10...	.3	20	139	.20	5750	110	18	.3	216	7.9	13.0
AUG.											
03...	.1	30	142	.20	3560	110	26	.2	248	8.0	16.5
SEP.											
03...	.2	80	152	.22	2780	120	31	.3	263	8.0	12.0

13027500 SALT RIVER ABOVE RESERVOIR, NEAR ETNA, WYO.

LOCATION.--Lat 43°04'47", long 111°02'12", in SW¼NE¼ sec.28, T.36 N., R.119 W., Lincoln County, at gaging station, 3.4 miles northwest of Etna, and at mile 8.0.

DRAINAGE AREA.--829 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1965 to September 1971.
Water temperatures: October 1965 to September 1966.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
OCT.												
10...	1520	787	9.7	58	22	8.3	2.8	247	0	28	13	.2
NOV.												
04...	1400	598	7.7	67	17	4.9	1.3	250	0	18	8.4	.1
DEC.												
01...	1130	678	6.7	67	15	10	1.3	244	0	24	13	.2
JAN.												
07...	0945	--	7.9	62	19	4.3	.7	254	0	25	4.3	.1
FEB.												
01...	1730	542	11	51	27	18	1.1	239	0	40	24	.2
APR.												
09...	1240	897	8.1	65	16	9.2	1.8	238	0	26	16	.3
MAY												
17...	1535	--	7.3	60	9.9	10	.9	209	0	18	10	.2
JUNE												
02...	1520	3280	5.5	56	12	12	1.1	211	0	22	11	.2
JULY												
10...	--	1880	7.8	62	15	9.8	.7	232	0	25	12	.2
AUG.												
03...	1705	1050	7.1	64	17	10	1.3	248	0	30	10	.2
SEP.												
03...	1030	1080	6.7	62	18	12	1.1	242	0	30	10	.2

DATE	NITRATE (NO3) (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	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
OCT.											
10...	7.0	0	270	.36	569	240	37	.2	455	8.1	10.0
NOV.											
04...	11	0	258	.35	417	240	35	.1	443	8.0	8.0
DEC.											
01...	7.2	50	265	.37	498	230	30	.3	472	8.0	4.0
JAN.											
07...	10	10	258	.34	--	230	22	.1	447	7.9	.0
FEB.											
01...	3.7	0	294	.40	430	240	44	.5	507	8.4	5.5
APR.											
09...	8.4	20	268	.35	625	230	35	.3	430	8.3	10.0
MAY											
17...	1.1	10	220	.30	--	190	19	.3	374	8.3	7.0
JUNE											
02...	.4	20	224	.32	2070	190	17	.4	383	8.3	13.0
JULY											
10...	2.5	20	249	.35	1290	220	30	.3	415	8.0	16.0
AUG.											
03...	3.5	20	265	.37	765	230	27	.3	468	8.1	17.5
SEP.											
03...	3.6	30	263	.36	770	230	31	.3	459	--	10.5

13037500 SNAKE RIVER NEAR HEISE, IDAHO
(Irrigation network station)

LOCATION.--Lat 43°37'43", long 111°41'03", in SW¼SW¼ sec.31, T.4 N., R.41 E., Jefferson County, at Eagle Rock canal headgate 1.2 miles upstream from Heise, 1.6 miles downstream from Anderson canal headgate, 1.8 miles downstream from gaging station, approximately 4.8 miles east of Ririe, approximately 21 miles upstream from Henrys Fork, and at mile 859.8.
DRAINAGE AREA.--5,752 sq mi (upstream from gaging station).
PERIOD OF RECORD.--Chemical analyses: January 1953 to September 1971.
Water temperatures: January 1953 to September 1971.
EXTREMES.--1970-71:
Specific conductance: Maximum daily, 431 micromhos Nov. 15, 24; minimum daily, 267 micromhos July 8.
Water temperatures: Maximum daily, 16° C Aug. 3; minimum daily, 0.5° C Jan. 2-8, Feb. 5.
Period of record:
Specific conductance (1953-71): Maximum daily, 791 micromhos Nov. 13, 1956; minimum daily, 240 micromhos June 27, 1954.
Water temperatures (1953-71): Maximum daily, 20° C Aug. 6, 7, 1970; minimum daily, freezing point on many days during winter months of most years.
REMARKS.--Approximately 2.5 percent of normal annual streamflow of 5,000,000 acre-feet is diverted by Anderson canal between sampling point and gaging station. This diversion occurs during the months of May to November. Except for leakage through the headgate, no other diversion or appreciable inflow between sampling point and gaging station except during periods of heavy local runoff.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
OCT.											
15...	4110	11	42	13	12	128	5	41	12	.00	.360
NOV.											
15...	3430	--	56	14	13	180	2	50	15	.68	.070
DEC.											
15...	2680	--	53	14	12	178	0	49	14	.68	.020
JAN.											
15...	2580	--	52	14	14	182	0	48	14	.09	--
FEB.											
15...	4740	9.2	53	14	14	183	0	41	13	.09	.000
MAR.											
15...	5170	9.6	54	12	12	180	0	52	12	.10	.020
APR.											
15...	17200	--	51	14	11	183	0	55	9.1	.20	.080
MAY											
15...	19600	--	41	8.8	9.0	148	0	24	8.7	.30	.200
JUNE											
15...	19200	--	39	8.8	7.6	157	0	23	4.4	.06	.040
JULY											
15...	18200	--	36	8.5	5.2	142	0	21	4.1	.08	.050
AUG.											
15...	10900	--	37	8.9	6.1	144	0	28	6.0	.10	.050
SEP.											
15...	9120	--	41	10	7.7	151	0	35	5.4	.12	.090

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (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	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
OCT.										
15...	209	.28	2320	158	45	.4	14	368	8.4	11.5
NOV.										
15...	240	.33	2220	197	46	.4	13	431	8.4	--
DEC.										
15...	246	.33	1780	190	44	.4	12	420	8.3	4.0
JAN.										
15...	232	.32	1620	190	41	.4	--	413	7.9	2.5
FEB.										
15...	214	.29	2740	190	40	.4	14	404	8.1	4.0
MAR.										
15...	264	.36	3690	180	32	.4	12	412	8.0	3.0
APR.										
15...	382	.52	17700	180	35	.4	11	408	7.7	4.5
MAY										
15...	210	.29	11100	140	17	.3	--	309	7.9	--
JUNE										
15...	176	.24	9120	130	5	.3	--	291	7.8	--
JULY										
15...	172	.23	8450	120	8	.2	8	246	7.9	--
AUG.										
15...	174	.24	5120	130	11	.2	--	289	7.7	13.0
SEP.										
15...	220	.30	5420	140	20	.3	--	330	7.7	--

13037500 SNAKE RIVER NEAR HEISE, IDAHO--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

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

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	343	412	411	421	429	415	407	347	300	277	278	306
2	350	404	426	435	418	416	407	351	306	278	290	306
3	368	411	413	432	422	422	410	348	304	280	278	307
4	373	397	420	441	423	417	408	348	303	275	282	314
5	370	402	410	438	420	417	410	346	299	278	284	315
6	362	414	424	420	422	417	410	348	299	273	284	316
7	365	405	402	416	428	416	407	340	295	269	286	313
8	368	403	413	416	427	415	407	329	297	267	287	319
9	375	408	417	430	419	410	405	331	292	273	289	326
10	366	408	416	421	418	416	408	326	291	271	283	318
11	372	420	418	432	419	411	408	322	294	275	290	319
12	373	420	419	422	424	407	408	316	295	272	291	319
13	380	397	419	432	419	413	408	312	291	277	290	322
14	381	406	425	423	424	417	409	314	296	274	290	318
15	379	431	412	426	425	422	409	307	290	269	290	321
16	373	415	426	431	422	427	405	308	293	279	293	321
17	374	411	417	419	420	428	406	302	291	272	291	326
18	376	415	412	421	408	422	410	304	289	271	295	324
19	382	421	402	429	403	420	404	304	286	271	295	322
20	390	414	411	424	416	424	399	305	287	274	295	326
21	389	421	422	424	426	422	403	302	290	271	314	323
22	390	412	413	419	419	423	402	301	286	272	299	325
23	395	421	427	416	422	415	381	301	285	274	302	325
24	406	431	413	427	415	413	379	299	288	274	304	324
25	414	---	424	425	422	411	385	298	283	275	303	325
26	414	412	428	417	421	408	374	298	277	281	303	328
27	414	430	432	423	425	406	379	297	274	284	306	330
28	420	418	431	424	---	407	372	298	276	280	305	330
29	417	421	429	428	---	405	368	297	280	279	303	331
30	406	410	429	430	---	408	354	299	274	277	309	333
31	415	---	429	---	---	416	---	297	---	275	307	---
MONTH	384	413	419	425	421	416	398	316	290	275	294	322
YEAR	363											

13055000 TETON RIVER NEAR ST. ANTHONY, IDAHO

LOCATION.--Lat 43°55'40", long 111°36'55", in SW¼ sec.15, T.7 N., R.41 E., Fremont County, temperature recorder at gaging station on right bank, 0.5 mile upstream from railroad bridge, 4 miles southeast of St. Anthony, and at mile 22.
DRAINAGE AREA.--890 sq mi, approximately.
PERIOD OF RECORD.--Water temperatures: April 1964 to September 1971.
EXTREMES.--1970-71:
Water temperatures: Maximum, 21° C Aug. 5-7; minimum, freezing point many days during December and January.
Period of record:
Water temperatures (1964-71): Maximum, 22° C on several days during July and August in 1966, 1968-69; minimum, freezing point on many days during winter months of most years.
REMARKS.--Station discontinued Sept. 10.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.5	9.0	2.0	1.5	2.0	1.0	0	0	2.5	2.0	2.0	1.5
2	11.0	9.0	2.0	1.0	1.0	0.5	0	0	2.5	1.5	2.0	1.5
3	11.0	9.0	2.0	1.0	1.0	0.5	0	0	1.5	0.5	1.5	1.5
4	11.0	9.0	2.0	1.0	0.5	0.5	0	0	0.5	0.5	2.0	1.5
5	11.0	9.0	3.0	2.0	1.0	0.5	0	0	0.5	0.5	2.5	2.0
6	9.0	7.5	4.0	3.0	1.5	1.0	0	0	0.5	0.5	3.0	2.0
7	7.5	6.0	4.0	4.0	1.5	1.5	0	0	0.5	0.5	3.0	2.5
8	6.5	5.5	4.0	3.5	2.0	1.5	0	0	0.5	0.5	5.0	3.5
9	6.0	5.5	3.5	3.5	2.0	2.0	0	0	0.5	0.5	5.0	4.0
10	6.5	5.5	3.5	3.5	2.0	1.5	0	0	0.5	0.5	5.0	5.0
11	6.5	5.0	3.5	3.0	1.5	0.5	0	0	2.0	0.5	5.5	4.5
12	6.0	6.0	3.0	3.0	0.5	0	0	0	2.5	2.0	5.5	4.0
13	6.0	5.0	3.0	3.0	0	0	0	0	2.5	2.5	4.0	3.5
14	5.5	4.5	3.0	2.5	0	0	0	0	3.0	2.5	3.5	3.0
15	5.5	4.0	2.5	1.5	0	0	0	0	3.5	3.0	4.5	3.5
16	5.5	4.0	2.0	1.5	0	0	0	0	3.5	2.5	5.0	3.5
17	5.5	4.0	2.5	2.0	0	0	0	0	3.0	2.0	4.5	3.5
18	5.5	4.0	2.5	2.5	0	0	0	0	3.5	2.5	3.5	2.5
19	5.5	5.0	2.5	1.5	0	0	0	0	3.5	3.5	4.0	2.0
20	5.5	5.0	1.5	1.5	0	0	0	0	3.5	2.0	4.5	2.5
21	5.5	5.0	1.5	1.0	0	0	0	0	2.0	1.0	5.0	4.0
22	5.0	5.0	1.0	0.5	0	0	0	0	1.5	1.0	5.0	5.0
23	5.0	4.0	0.5	0.5	0	0	0	0	1.0	1.0	5.0	4.5
24	4.0	1.5	2.5	0.5	0	0	0	0	2.0	1.0	5.0	4.5
25	2.0	1.0	3.0	2.5	0	0	0	0	2.5	2.0	5.5	4.0
26	2.5	2.0	3.0	2.0	0	0	1.0	0	2.5	2.0	5.0	4.0
27	2.5	1.0	2.0	1.0	0	0	2.0	1.0	2.0	2.0	4.5	3.5
28	1.5	1.0	2.0	1.0	0	0	2.0	2.0	2.0	2.0	5.5	3.5
29	1.5	1.0	2.5	2.0	0	0	2.0	2.0	---	---	6.0	4.0
30	2.0	1.0	2.5	2.0	0	0	2.0	1.5	---	---	5.5	4.5
31	2.0	1.0	---	---	0	0	2.0	2.0	---	---	5.5	3.5
MONTH	11.5	1.0	4.0	0.5	2.0	0	2.0	0	3.5	0.5	6.0	1.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.5	3.0	11.5	8.5	9.0	9.0	15.0	13.5	19.0	16.0	20.0	17.0
2	5.0	3.5	11.5	10.0	10.0	9.0	16.0	15.0	19.0	16.5	18.0	16.5
3	6.0	4.0	10.5	9.0	10.0	10.0	16.0	14.0	19.0	17.0	17.0	15.0
4	6.0	4.5	9.0	8.0	10.0	9.5	14.5	13.0	20.0	17.5	15.5	14.0
5	6.5	4.0	8.0	6.5	10.5	9.5	14.5	13.0	21.0	17.5	16.5	14.0
6	7.0	4.0	7.5	6.5	11.5	10.0	15.0	14.0	21.0	17.5	17.5	15.0
7	7.5	5.0	8.5	7.0	12.0	11.0	15.0	14.0	21.0	18.0	17.5	15.5
8	6.5	4.5	8.5	8.0	12.5	11.5	14.5	14.0	20.0	17.5	17.5	14.0
9	7.0	4.0	8.5	8.0	12.5	11.5	15.0	14.0	20.0	17.5	18.0	15.5
10	7.5	5.0	8.5	7.5	12.0	11.0	15.0	14.0	20.0	17.0	---	---
11	5.0	4.5	9.0	7.5	11.0	11.0	16.5	14.5	20.0	17.0	---	---
12	4.5	4.5	9.0	8.5	11.0	10.0	15.5	14.0	20.0	17.0	---	---
13	5.0	4.5	9.0	7.5	12.5	11.0	16.0	14.5	20.0	17.0	---	---
14	8.0	5.0	7.5	6.0	13.0	12.0	16.0	15.0	19.5	17.0	---	---
15	8.0	7.0	8.5	7.0	13.0	12.5	16.5	15.0	19.5	17.0	---	---
16	7.0	5.5	8.5	8.0	14.0	13.0	17.0	15.5	20.0	17.0	---	---
17	6.0	5.5	8.0	6.0	14.0	13.5	18.0	16.5	20.0	17.5	---	---
18	6.0	5.5	6.0	5.5	14.0	13.5	18.0	16.5	19.0	16.0	---	---
19	6.0	4.5	8.0	6.0	13.5	13.0	17.0	16.0	19.5	16.0	---	---
20	5.5	5.0	8.5	8.5	14.5	13.0	17.0	16.5	19.5	16.5	---	---
21	5.5	4.5	9.5	8.0	15.0	14.5	17.0	14.5	19.5	16.5	---	---
22	6.5	5.5	9.5	8.5	15.0	15.0	16.0	15.5	19.5	16.5	---	---
23	7.0	6.0	9.5	7.0	15.0	15.0	16.5	14.5	18.0	16.0	---	---
24	7.0	6.5	11.0	8.5	15.0	15.0	17.0	15.5	18.5	15.0	---	---
25	7.5	6.5	11.5	10.5	15.0	15.0	18.0	15.5	18.5	16.0	---	---
26	7.5	5.5	11.5	10.5	15.0	14.0	18.0	15.5	19.0	16.0	---	---
27	7.0	5.0	11.0	10.5	14.0	13.5	18.0	16.0	20.0	16.5	---	---
28	8.5	6.5	11.0	10.0	13.5	12.0	18.0	16.0	20.0	18.0	---	---
29	9.5	7.0	10.0	9.0	12.0	11.0	18.0	15.5	19.0	18.5	---	---
30	10.5	7.5	9.5	9.0	14.0	12.0	18.0	16.0	19.5	17.0	---	---
31	---	---	9.0	8.0	---	---	18.5	16.0	20.0	18.0	---	---
MONTH	10.5	3.0	11.5	5.5	15.0	9.0	18.5	13.0	21.0	15.0	---	---
YEAR	21.0	0										

13058000 WILLOW CREEK NEAR RIRIE, IDAHO

LOCATION.--Lat 43°35'35", long 111°46'30", in SE¼NW¼ sec.17, T.3 N., R.40 E., Bonneville County, at gaging station, on left bank about 1 mile upstream from mouth of canyon, 1.5 miles upstream from Eagle Rock canal, and 2.6 miles south of Ririe.

DRAINAGE AREA.--627 sq mi.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)
OCT.												
27...	56	19	53	16	18	4.1	239	0	18	20	.2	.02
NOV.												
24...	88	18	58	18	17	3.6	258	0	19	25	.2	.27
DEC.												
28...	63	26	60	17	18	2.4	256	0	16	21	.3	.16
JAN.												
26...	83	22	59	16	17	2.4	252	0	14	22	.3	.20
FEB.												
22...	28	24	70	18	17	2.9	281	0	19	26	.3	.30
APR.												
05...	177	19	59	17	16	3.4	259	0	21	21	.3	.50
28...	1060	5.5	51	13	11	3.1	222	0	14	20	.2	.20
JUNE												
02...	1200	13	54	13	8.7	1.6	214	0	16	10	.2	.00
25...	305	11	44	11	6.4	1.4	177	0	--	6.8	.2	.07
JULY												
27...	126	16	50	16	15	1.8	242	0	13	19	.3	.21
AUG.												
26...	71	18	44	15	16	2.3	214	0	15	20	.6	.08
SEP.												
27...	69	16	45	15	16	2.6	214	0	17	17	.3	.02

DAT	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
OCT.												
27...	.030	.070	267	.36	40.7	198	2	.6	16	430	8.2	.5
NOV.												
24...	.040	.070	290	.39	68.9	218	6	.5	14	471	8.1	.0
DEC.												
28...	.020	.050	293	.39	49.3	220	10	.5	15	478	8.3	.0
JAN.												
26...	.070	.090	280	.38	62.8	210	3	.5	15	459	8.0	.5
FEB.												
22...	.030	.130	320	.44	24.2	250	19	.5	14	512	8.2	.0
APR.												
05...	.170	1.7	287	.39	137	220	5	.5	14	486	8.1	5.5
28...	.080	.080	229	.31	653	180	0	.4	11	393	8.1	6.0
JUNE												
02...	.060	.220	222	.30	719	190	13	.3	9	379	8.1	11.5
25...	.050	.120	201	.27	166	160	10	.2	8	327	7.9	13.5
JULY												
27...	.040	.100	251	.34	85.4	190	0	.5	14	416	7.9	14.5
AUG.												
26...	.040	.080	237	.32	45.6	170	0	.5	17	393	8.3	19.0
SEP.												
27...	.010	.110	234	.32	43.6	170	0	.5	16	412	8.2	10.5

13087900 LAKE MILNER AT MILNER DAM, IDAHO

LOCATION.--Lat 42°31'26", long 114°00'40", in SE¼NE¼SE¼ sec.29, T.10 S., R.21 E., Twin Falls County, on left bank end of concrete gate structure on Milner Dam and 0.6 mile northeast of Milner.

DRAINAGE AREA.--17,180 sq mi, approximately, excluding indeterminate nontributary area on Snake River Plain, at gaging station 0.4 mile downstream from Milner Dam.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1971.
Water temperatures: October 1968 to September 1971 except for summer months.

REMARKS.--Discharge computed using gaging station 13088000, 0.4 mile downstream and releases into canals at Milner Dam. Values of pH, dissolved oxygen, specific conductance, and water temperatures from monitor available for fall and winter months of most water years.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	FIELD BICAR-BONATE (HCO3) (MG/L)	FIELD CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT.												
20...	5250	--	46	17	--	--	185	21	41	22	.6	278
NOV.												
17...	3700	3.0	--	--	--	--	176	9	--	23	--	220
DEC.												
15...	6000	--	--	--	--	--	195	2	--	--	--	268
JAN.												
19...	10500	13	48	16	--	--	204	0	38	20	.8	266
FEB.												
23...	9800	--	--	--	--	--	206	6	--	--	--	292
MAR.												
23...	5240	--	--	--	--	--	194	8	--	--	--	280
APR.												
20...	19300	--	49	16	--	--	181	2	41	19	.6	252
MAY												
18...	17900	--	--	--	--	--	162	11	--	--	--	266
JUNE												
22...	15000	--	--	--	--	--	147	10	--	--	--	230
JULY												
27...	10200	--	43	11	14	2.9	164	0	29	11	.5	--
AUG.												
24...	9780	--	42	13	15	2.7	167	3	27	14	.6	--
SEP.												
20...	2840	--	43	14	17	3.3	133	24	33	12	.6	--

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	FIELD SPECI-FIC COND-UCTANCE (MICRO-MHOS)	FIELD PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	TEMP-ERATURE (DEG C)	AIR TEMP-ERATURE (DEG C)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.												
20...	3940	180	0	--	435	9.0	0	6	9.0	7.0	26000	220
NOV.												
17...	2200	--	--	--	461	8.7	--	--	4.0	2.5	260000	10300
DEC.												
15...	4340	--	--	--	442	8.4	--	--	.5	-1.5	540000	97
JAN.												
19...	7540	190	23	--	417	8.3	12	--	1.5	6.0	42000	--
FEB.												
23...	7730	--	--	--	448	8.4	--	--	2.5	.0	140000	--
MAR.												
23...	3960	--	--	--	432	8.7	--	--	5.0	7.0	11000	100
APR.												
20...	13100	188	0	--	414	8.4	10	20	7.5	7.5	4700	36
MAY												
18...	12900	--	--	--	400	8.7	--	--	10.5	10.0	14000	51
JUNE												
22...	9315	--	--	--	345	8.8	--	--	18.5	21.0	920000	380
JULY												
27...	--	150	0	.5	340	8.1	8	4	23.0	32.0	7000	67
AUG.												
24...	--	160	0	.5	353	8.4	10	10	19.0	23.0	160	82
SEP.												
20...	--	160	0	.6	357	8.7	5	70	14.0	17.0	88000	100

13087900 LAKE MILNER AT MILNER DAM, IDAHO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	NITRATE (N) (MG/L)	NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS. HYDRO-LYZABLE PHOS-PHORUS (P) (MG/L)[1]	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.												
20...	.09	.000	.32	.04	.45	.000	.030	.060	11.3	114	5.4	3.5
NOV.												
17...	.32	.000	.00	.01	.33	.060	.070	.390	10.0	90	5.1	2.0
DEC.												
15...	.14	.020	.02	.09	.27	.020	.020	.020	11.8	94	--	2.0
JAN.												
19...	.14	.060	.04	.09	.33	.020	.030	2.7	11.5	96	3.6	1.5
FEB.												
23...	.40	.020	.10	.05	.57	.050	.100	.070	11.9	98	3.8	.0
MAR.												
23...	.19	.010	.94	.28	1.4	.040	.050	.150	11.2	102	4.0	.0
APR.												
20...	.00	.000	.10	.12	.22	.030	.050	.100	10.8	105	5.0	.0
MAY												
18...	.20	.000	.16	.15	.51	.070	.090	.120	9.2	95	2.5	1.5
JUNE												
22...	.00	.000	.10	.36	.46	.020	.020	.500	10.0	125	3.1	1.0
JULY												
27...	.11	.000	.11	.31	.53	.020	.080	.090	8.5	113	1.6	2.0
AUG.												
24...	.09	.000	.07	.25	.41	.020	.070	.120	8.2	101	2.4	--
SEP.												
20...	.03	.000	.00	.42	.45	.010	.070	.120	11.5	129	5.4	--

1 Includes dissolved orthophosphorus.

DATE	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
OCT.						
20...	--	--	--	--	--	<.5
NOV.						
17...	--	--	--	--	--	<.5
DEC.						
15...	--	--	--	--	0	<.5
JAN.						
19...	1840	--	--	--	--	<.5
FEB.						
23...	--	--	--	--	--	<.1
MAR.						
23...	--	--	--	--	--	<.5
APR.						
20...	--	--	--	--	--	<.5
MAY						
18...	--	--	--	--	--	<.5
JUNE						
22...	--	--	--	--	--	<.5
JULY						
27...	--	--	--	--	--	<.5
AUG.						
24...	10	0	0	20	--	.1
SEP.						
20...	10	1	0	0	--	.2

DATE	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL STRON-TIUM (SR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL BORON (B) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.								
20...	--	--	--	--	--	--	--	.4
NOV.								
17...	20	<10	230	<10	1	<10	80	.3
JAN.								
19...	--	--	--	--	--	--	--	.6
APR.								
20...	--	--	--	--	--	--	--	<.1
MAY								
18...	--	--	--	--	--	--	--	<.1

13087900 LAKE MILNER AT MILNER DAM, IDAHO--Continued

DISSOLVED OXYGEN (MG/L), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.6	12.0	12.4	11.4	10.5	11.0	10.7	10.5	10.6	11.9	11.7	11.8
2	12.6	12.0	12.6	11.1	10.7	10.9	11.1	10.3	10.9	12.2	11.9	12.0
3	12.8	12.2	12.6	11.1	10.7	10.9	11.2	11.0	11.1	12.4	12.1	12.2
4	12.6	12.4	12.5	11.5	10.3	11.1	11.1	11.1	11.1	12.2	11.9	12.0
5	12.8	11.6	12.0	10.5	10.2	10.5	11.0	10.3	10.6	---	---	---
6	11.7	10.7	11.2	10.7	9.9	10.3	11.3	10.7	11.1	---	---	---
7	11.2	10.1	10.6	10.4	9.4	9.8	11.3	11.2	11.2	---	---	---
8	11.3	10.4	10.7	9.9	8.1	9.5	11.2	10.6	10.9	---	---	---
9	11.0	10.6	10.8	8.6	8.0	8.1	11.0	10.0	10.4	---	---	---
10	10.8	10.2	10.8	9.5	8.6	8.8	10.0	9.9	10.0	---	---	---
11	10.8	10.2	10.5	10.0	8.0	9.3	10.4	9.8	9.9	---	---	---
12	11.1	10.2	10.5	8.9	8.4	8.6	9.8	9.7	9.7	---	---	---
13	10.7	10.3	10.5	9.4	8.9	9.1	10.2	9.8	10.0	---	---	---
14	11.0	10.0	10.4	9.4	9.0	9.2	10.3	9.9	10.2	---	---	---
15	12.1	10.4	11.8	9.8	9.3	9.4	11.8	11.6	11.7	---	---	---
16	13.0	11.6	12.7	10.0	9.8	9.9	11.6	11.1	11.4	---	---	---
17	12.6	12.0	12.3	10.3	10.0	10.2	11.1	10.5	10.8	---	---	---
18	12.6	11.9	12.2	10.2	10.0	10.1	11.7	10.5	11.2	---	---	---
19	12.1	11.4	11.8	10.2	10.0	10.1	12.1	11.6	11.9	---	---	---
20	11.6	11.3	11.4	10.0	9.5	10.0	12.0	11.6	11.7	---	---	---
21	11.4	10.8	11.0	10.0	9.5	9.9	11.8	11.4	11.6	---	---	---
22	11.1	10.3	10.6	10.1	9.3	9.8	11.5	11.1	11.3	---	---	---
23	11.2	9.9	10.3	10.8	8.6	10.8	11.1	10.8	11.0	---	---	---
24	10.4	10.1	10.2	10.9	10.6	10.9	10.9	10.4	10.6	---	---	---
25	10.5	10.0	10.4	10.9	10.3	10.7	11.1	10.4	10.8	---	---	---
26	11.1	10.4	10.8	10.9	10.1	10.5	11.2	10.6	11.0	---	---	---
27	10.9	10.3	10.6	10.7	10.5	10.6	11.7	11.0	11.4	---	---	---
28	11.1	10.6	10.8	10.8	10.5	10.7	12.2	11.5	12.0	---	---	---
29	11.0	10.1	10.5	10.9	10.6	10.7	12.0	11.5	11.8	---	---	---
30	11.1	9.8	10.6	11.1	10.3	10.7	11.9	11.6	11.7	---	---	---
31	11.1	9.9	10.7	---	---	---	12.0	11.8	11.9	---	---	---
MONTH	13.0	9.8	11.2	11.5	8.0	10.1	12.2	9.2	11.0	---	---	---

PH (STANDARD UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.8	8.7	8.7	8.9	8.9	8.9	8.6	8.6	8.6	8.3	8.3	8.3
2	8.8	8.6	8.7	8.9	8.9	8.9	8.6	8.6	8.6	8.4	8.3	8.3
3	8.7	8.6	8.7	8.6	8.6	8.6	8.6	8.6	8.6	8.4	8.3	8.4
4	8.8	8.8	8.8	8.6	8.5	8.6	8.6	8.6	8.6	8.3	8.3	8.3
5	8.7	8.6	8.7	8.5	8.4	8.4	8.6	8.5	8.5	---	---	---
6	8.7	8.6	8.6	8.4	8.4	8.4	8.5	8.5	8.5	---	---	---
7	8.7	8.7	8.7	8.4	8.3	8.4	8.6	8.5	8.5	---	---	---
8	8.7	8.7	8.7	8.3	8.3	8.3	8.6	8.5	8.5	---	---	---
9	8.7	8.7	8.7	8.3	8.3	8.3	8.6	8.5	8.5	---	---	---
10	8.7	8.7	8.7	8.3	8.3	8.3	8.6	8.5	8.5	---	---	---
11	8.7	8.7	8.7	8.3	7.7	7.8	8.6	8.6	8.6	---	---	---
12	8.7	8.7	8.7	8.1	8.1	8.1	8.6	8.6	8.6	---	---	---
13	8.7	8.7	8.7	8.2	8.1	8.1	8.6	8.6	8.6	---	---	---
14	8.7	8.7	8.7	8.3	8.3	8.3	8.6	8.6	8.6	---	---	---
15	8.7	8.7	8.7	8.3	8.3	8.3	8.6	8.6	8.6	---	---	---
16	8.7	8.7	8.7	8.6	8.6	8.6	8.6	8.3	8.3	---	---	---
17	8.6	8.6	8.7	8.6	7.6	8.0	8.3	8.3	8.3	---	---	---
18	8.6	8.6	8.6	8.6	8.6	8.6	8.3	8.3	8.3	---	---	---
19	9.0	8.6	8.6	8.6	8.6	8.6	8.3	8.3	8.3	---	---	---
20	9.0	9.0	9.0	8.6	8.6	8.6	8.3	8.3	8.3	---	---	---
21	9.0	9.0	9.0	8.6	8.5	8.5	8.3	8.3	8.3	---	---	---
22	9.0	9.0	9.0	8.6	8.6	8.6	8.4	8.3	8.4	---	---	---
23	9.0	9.0	9.0	8.6	8.5	8.5	8.3	8.3	8.3	---	---	---
24	9.0	9.0	9.0	8.5	8.5	8.5	8.3	8.3	8.3	---	---	---
25	9.0	9.0	9.0	8.5	8.5	8.5	8.4	8.3	8.4	---	---	---
26	9.0	9.0	9.0	8.5	8.5	8.5	8.4	8.4	8.4	---	---	---
27	9.0	9.0	9.0	8.5	8.5	8.5	8.4	8.4	8.4	---	---	---
28	9.0	9.0	9.0	8.6	8.5	8.5	8.4	8.4	8.4	---	---	---
29	9.0	8.9	8.9	8.6	8.6	8.6	8.4	8.4	8.4	---	---	---
30	8.9	8.8	8.9	8.6	8.5	8.6	8.4	8.3	8.4	---	---	---
31	9.0	8.9	9.0	---	---	---	8.3	8.3	8.3	---	---	---
MONTH	9.0	8.6	8.8	8.9	7.6	8.4	8.6	8.3	8.4	---	---	---

13087900 LAKE MILNER AT MILNER DAM, IDAHO--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	480	475	475	500	500	500	475	475	475	485	485	485
2	480	475	475	500	490	490	475	475	475	485	480	485
3	475	475	475	490	490	490	490	475	475	490	485	485
4	485	480	480	490	485	485	480	480	480	490	490	490
5	480	480	480	485	485	485	485	480	485	---	---	---
6	480	470	470	485	485	485	485	485	485	---	---	---
7	470	460	465	485	485	485	485	485	485	---	---	---
8	480	470	470	485	480	485	485	485	485	---	---	---
9	480	480	480	485	480	485	485	480	485	---	---	---
10	480	480	480	480	475	480	485	485	485	---	---	---
11	480	480	480	480	480	480	485	480	480	---	---	---
12	480	480	480	480	470	475	480	480	480	---	---	---
13	480	470	480	470	465	465	480	480	480	---	---	---
14	480	480	480	470	465	470	480	475	475	---	---	---
15	490	480	480	470	465	465	480	480	480	---	---	---
16	490	490	490	470	465	470	485	480	485	---	---	---
17	500	490	490	470	465	470	480	480	480	---	---	---
18	500	490	500	470	470	470	480	480	480	---	---	---
19	500	490	500	470	470	470	480	480	480	---	---	---
20	490	490	490	475	470	470	485	480	480	---	---	---
21	490	490	490	470	470	470	490	485	490	---	---	---
22	500	500	500	475	470	475	490	480	485	---	---	---
23	500	500	500	475	470	470	485	480	485	---	---	---
24	500	490	490	480	475	480	490	485	485	---	---	---
25	500	490	490	475	475	475	490	485	485	---	---	---
26	490	490	490	475	475	475	485	480	480	---	---	---
27	490	480	490	475	475	475	485	480	480	---	---	---
28	480	480	480	480	475	480	485	480	485	---	---	---
29	490	480	480	480	475	480	480	480	480	---	---	---
30	490	480	490	480	475	475	485	480	480	---	---	---
31	500	490	490	---	---	---	485	485	485	---	---	---
MONTH	500	460	484	500	465	479	490	475	482	---	---	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

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

13154500 SNAKE RIVER AT KING HILL, IDAHO
(Irrigation network and pesticide station)

LOCATION.--Lat 43°00'10", long 115°12'28", in NE¼SE¼ sec.12, T.5 S., R.10 E., Elmore County, at county highway bridge, approximately 1,700 ft downstream from gaging station at King Hill, 20 miles downstream from Big Wood River, and at mile 545.3.

DRAINAGE AREA.--35,800 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: March 1951 to September 1971.
Water temperatures: March 1951 to September 1971.

EXTREMES.--1970-71:
Specific conductance: Maximum daily, 558 micromhos Oct. 13; minimum daily, 358 micromhos Jan. 18.
Water temperatures: Maximum daily, 21° C Aug. 9; minimum daily, 4.0° C Jan. 5-6.

Period of record:
Specific conductance (1951-71): Maximum daily, 595 micromhos June 19, 1968; minimum daily, 298 micromhos Apr. 15, 1969.
Water temperatures (1951-71): Maximum, 23° C Aug. 2, 1955; minimum, 4° C Dec. 16, 1967, Jan. 29, 1969, Jan. 5, 6, 1971.

REMARKS.--No appreciable inflow between gaging station and sampling point except during periods of heavy local runoff.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)
OCT.											
15...	12800	33	47	22	33	240	0	50	26	--	.22
NOV.											
15...	13200	--	49	20	31	225	0	53	25	--	.38
DEC.											
15...	12300	--	46	20	29	218	0	46	24	--	.34
JAN.											
15...	13800	26	44	19	29	217	0	36	22	.8	.40
FEB.											
15...	14300	26	45	19	27	215	0	40	22	.8	.40
MAR.											
15...	14900	28	46	16	27	211	0	44	24	--	.70
APR.											
15...	16900	--	46	16	22	200	0	40	19	--	.80
MAY											
15...	28600	--	46	15	18	187	0	42	18	--	.60
JUNE											
15...	18400	--	41	15	21	192	0	36	16	--	.63
JULY											
15...	7370	--	44	17	23	214	0	38	18	--	.95
AUG.											
15...	7700	--	45	20	33	227	0	48	23	--	1.2
SEP.											
15...	11400	--	46	20	32	227	0	55	24	--	1.2

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (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	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
OCT.											
15...	.070	299	.41	10300	208	11	1.0	26	521	8.0	12.5
NOV.											
15...	.100	280	.38	9980	205	20	.9	25	531	8.3	10.0
DEC.											
15...	.070	285	.39	9470	198	19	.9	24	516	8.1	6.5
JAN.											
15...	.100	284	.39	10600	190	12	.9	25	458	8.3	6.5
FEB.											
15...	.130	278	.38	10700	190	14	.9	24	463	8.2	8.0
MAR.											
15...	.130	314	.43	12600	180	7	.9	25	473	7.9	9.0
APR.											
15...	.150	180	.24	8210	180	17	.7	--	446	8.1	10.0
MAY											
15...	.150	294	.40	22700	180	23	.6	--	424	8.1	14.5
JUNE											
15...	.090	264	.36	13100	160	7	.7	--	416	8.0	17.5
JULY											
15...	.060	264	.36	5250	180	4	.7	--	453	8.1	18.5
AUG.											
15...	.070	328	.45	6820	190	9	1.0	--	510	8.1	20.0
SEP.											
15...	.070	330	.45	10200	200	11	1.0	--	529	8.0	15.5

13154500 SNAKE RIVER AT KING HILL, IDAHO--Continued

DATE	DIS-CHARGE (CFS)	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)
OCT.									
05...	9160	.00	.00	.00	.00	.00	.00	.00	.00
NOV.									
20...	13400	.00	.00	.00	.01	.00	.00	.00	.00
JAN.									
08...	14500	.00	.00	.00	.00	.00	.00	.00	.00
FEB.									
27...	14600	.00	.00	.00	.00	.00	.00	.00	.00
MAY									
05...	25300	.00	.00	.00	.00	.00	.00	.00	.00
25...	19400	.00	.00	.00	.00	.00	.00	.00	.00
JUNE									
21...	14200	.00	.00	.00	.00	.00	.00	.00	.00
AUG.									
02...	7450	.00	.00	.00	.00	.00	.00	.00	.00
30...	7880	.00	.00	.00	.00	.00	.00	.00	.00

DATE	LINDANE (UG/L)	2,4-D (UG/L)	SILVEX (UG/L)	2,4,5-T (UG/L)	CHLOR-DANE (UG/L)	PARA-THION (UG/L)	METHYL PARA-THION (UG/L)	MALA-THION (UG/L)	DI-AZINON (UG/L)
OCT.									
05...	.00	.06	.00	.00	.00	.00	.00	.00	.00
NOV.									
20...	.00	.00	.00	.00	.00	.00	.00	.00	.00
JAN.									
08...	.00	.00	.00	.01	.00	.00	.00	.00	.00
FEB.									
27...	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAY									
05...	.00	.00	.00	.00	.00	.00	.00	.00	.00
25...	.00	.00	.00	.02	.00	.00	.00	.00	.00
JUNE									
21...	.00	.00	.00	.00	.00	.00	.00	.00	.00
AUG.									
02...	.00	.02	.00	.00	.00	.00	.00	.00	.00
30...	.00	.00	.00	.00	.00	.00	.00	.00	.00

13154500 SNAKE RIVER AT KING HILL, IDAHO--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

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

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	521	530	499	494	453	495	433	434	432	414	512	534
2	534	528	511	497	466	503	432	436	426	414	517	535
3	519	529	512	499	485	500	444	427	435	419	515	535
4	530	535	513	495	485	501	447	432	421	418	512	537
5	531	533	507	499	489	492	458	428	426	420	512	533
6	527	540	496	507	491	485	458	422	427	426	514	537
7	534	534	496	505	491	476	459	425	425	424	524	534
8	533	532	472	507	492	471	454	426	426	438	523	535
9	538	525	475	505	498	459	444	425	425	440	523	535
10	539	527	482	504	494	479	446	422	421	444	526	528
11	539	528	491	499	488	476	444	421	420	450	525	531
12	538	528	504	493	486	472	444	424	426	451	524	530
13	558	530	497	491	492	472	440	422	424	455	524	528
14	550	527	501	489	488	478	440	422	423	456	522	524
15	540	522	499	486	490	481	440	421	425	458	528	530
16	530	520	507	462	486	479	453	420	422	459	520	533
17	529	515	505	438	485	484	454	420	419	492	523	534
18	525	515	505	358	483	481	437	422	419	492	524	529
19	529	519	503	370	485	463	437	429	412	498	524	527
20	523	513	504	378	487	474	433	428	414	496	524	526
21	522	513	504	416	483	476	435	434	418	496	526	529
22	527	515	505	448	490	475	437	436	418	497	527	528
23	523	515	508	462	481	467	437	436	432	514	527	528
24	529	486	505	471	485	462	435	436	433	509	529	530
25	536	500	503	475	481	464	434	436	424	509	530	526
26	535	512	506	479	489	427	432	445	419	515	529	527
27	530	515	507	471	487	447	430	446	419	520	529	529
28	533	514	502	466	494	449	428	443	426	521	528	531
29	533	512	502	463	---	458	433	440	416	509	533	527
30	526	497	499	463	---	430	432	433	417	511	534	524
31	527	---	498	455	---	454	---	434	---	512	536	---
MONTH	532	520	501	469	486	472	441	430	423	470	524	530
YEAR	483											

13169500 BIG JACKS CREEK NEAR BRUNEAU, IDAHO
(Hydrologic bench-mark station)

LOCATION.--Lat 42°47'06", long 115°59'00", in NW¼SE¼ sec.28, T.7 S., R.4 E., Owyhee County, at gaging station on left bank, 0.2 mile upstream from confluence with Little Jacks Creek, and 11.5 miles southwest of Bruneau.

DRAINAGE AREA.--253 sq mi.

PERIOD OF RECORD.--Chemical analyses: January 1967 to September 1971.

REMARKS.--This station was reported as a miscellaneous site for the period January 1967 to September 1968.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)
JAN.												
11...	3.4	30	9.4	2.7	12	3.3	58	0	6.8	3.6	.5	.30
18...	189	20	11	2.0	6.6	4.4	65	0	2.5	2.3	.3	.50
MAR.												
16...	6.6	33	8.6	2.4	8.9	3.6	55	--	6.5	3.6	.4	.10
26...	31	32	8.7	2.3	7.9	3.3	57	--	6.8	2.7	.5	.20
APR.												
19...	7.5	35	9.2	2.9	9.8	3.5	54	--	6.0	4.2	.0	.00
MAY												
18...	7.4	23	7.3	1.6	8.7	6.8	46	--	5.3	2.7	.2	.00
JUNE												
22...	2.1	39	11	3.1	11	4.1	74	0	8.0	3.2	.5	.00
JULY												
27...	1.0	37	12	2.7	12	4.9	58	9	6.5	3.9	.6	.01
AUG.												
24...	.87	41	14	3.1	13	4.7	44	21	5.8	4.7	.6	.00
SEP.												
16...	.66	42	12	2.9	12	4.7	83	0	6.0	4.6	.7	.02

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	FIELD SPECI-FIC CON-DUCTANCE (MICRO-MHOS)	FIELD PH (UNITS)	TEMP-ERATURE (DEG C)	AIR TEMP-ERATURE (DEG C)
JAN.												
11...	.090	98	.13	.90	34	0	.3	40	*121	*7.8	.5	--
18...	.490	--	--	--	36	0	.5	46	*99	*6.6	1.0	--
MAR.												
16...	.160	95	.13	1.70	31	0	.7	35	109	7.9	5.5	11.0
26...	.300	96	.13	3.16	31	0	.6	33	*100	*7.2	13.0	--
APR.												
19...	.100	97	.13	1.97	35	0	.7	35	117	8.0	13.5	18.5
MAY												
18...	.100	79	.11	1.58	25	0	.8	36	128	8.3	19.0	20.0
JUNE												
22...	.100	117	.16	.66	40	0	.8	35	137	9.1	28.5	34.0
JULY												
27...	.050	117	.16	.32	41	0	.8	36	155	9.2	29.0	35.5
AUG.												
24...	.090	130	.18	.31	48	0	.8	35	159	8.8	22.5	29.5
SEP.												
16...	.060	126	.17	.22	42	0	.8	35	152	8.6	11.0	16.0

* Not a field determination.

DATE	TIME	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	FIELD DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
MAR.							
16...	1330	--	1	11.6	102	2.0	--
26...	1500	--	--	--	--	1.2	2.5
APR.							
19...	1400	120	42	9.5	100	1.1	--
MAY							
18...	1620	130	68	8.4	100	1.6	--
JUNE							
22...	1445	1100	57	9.2	131	1.5	1.0
JULY							
27...	1805	20000	33	9.8	139	1.6	.0
AUG.							
24...	1515	580	44	10.7	135	2.7	--
SEP.							
16...	1100	1000	35	11.1	106	1.3	--

13169500 BIG JACKS CREEK NEAR BRUNEAU, IDAHO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)
JAN. 18...	1100	580	97	90	0	1	2	18	0	26	8
MAR. 26...	--	--	--	310	17	--	--	--	--	0	--
MAY 18...	--	--	--	--	--	--	--	--	--	--	--
JUNE 22...	--	50	--	--	--	--	--	--	--	--	--
JULY 27...	--	--	--	--	--	--	--	--	--	--	--
AUG. 24...	300	40	10	130	10	--	2	2	2	10	0
SEP. 16...	300	0	0	130	9	--	0	3	0	10	0

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
JAN. 18...	60	0	220	7.5	0	0	140	0	30	--
MAR. 26...	--	--	--	6.6	--	0	--	--	--	.1
MAY 18...	--	--	--	--	--	--	--	--	40	--
JUNE 22...	--	--	--	--	--	--	--	--	30	--
JULY 27...	--	--	--	--	--	--	--	--	30	--
AUG. 24...	0	0	0	4.8	0	0	0	--	50	.1
SEP. 16...	3	0	0	4.0	0	20	5	0	70	.2

DATE	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL STRON-TIUM (SR) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL BORON (B) (UG/L)	TOTAL MERCURY (HG) (UG/L)
JAN. 18...	--	--	--	1	--	--	--	--	--	--	--
MAR. 26...	2900	40	50	--	10	5	20	--	--	20	.2
SEP. 16...	--	--	--	10	2	<1	10	3	<1	--	--

13169500 BIG JACKS CREEK NEAR BRUNEAU, IDAHO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	CHLOR-DANE (UG/L)	PARA-THION (UG/L)	METHYL PARA-THION (UG/L)	MALA-THION (UG/L)	DI-AZINON (UG/L)	2,4-D (UG/L)	SILVEX (UG/L)	2,4,5-T (UG/L)
JAN.								
11...	.00	.00	.00	.00	.00	.00	.00	.00
SEP.								
16...	.00	.00	.00	.00	.00	.00	.00	.00

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)
JAN.									
11...	.00	.00	.00	.00	.00	.00	.00	.00	.00
SEP.									
16...	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)
JAN.							
11...	.00	.00	.00	.00	.00	.00	.00
SEP.							
16...	<.20	<.20	<.20	<.20	<.20	<.20	<.20

DATE	HEPTA-CHLOR EPOXIDE IN BOTTOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION IN BOTTOM DE-POSITS (UG/KG)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON IN BOTTOM DE-POSITS (UG/KG)
JAN.							
11...	.00	.00	.00	.00	.00	.00	.00
SEP.							
16...	<.20	<.20	<.10	<.20	<.20	<.20	--

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
JAN.					
11...	1130	.5	3.4	42	.40
18...	1300	1.0	189	2990	1530
MAR.					
16...	1430	5.5	6.6	19	.33
26...	1500	13.0	31	55	4.7
APR.					
19...	1400	13.5	7.5	6	.12
MAY					
18...	1620	19.0	7.4	6	.12
JUNE					
22...	1445	26.5	2.1	6	.03
JULY					
27...	1805	29.0	1.0	8	.02
AUG.					
24...	1515	22.5	.87	4	.01
SEP.					
16...	1100	11.0	.66	3	.01

SNAKE RIVER MAIN STEM

13172850 SNAKE RIVER AT MARSING, IDAHO

LOCATION.--Lat 43°32'54", long 116°47'57", in NW¼SW¼SE¼ sec.34, T.3 N., R.4 W., at Elmore-Owhyee County line, and at State Highway 72 crossing.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	FIELD BICAR-BONATE (HCO3) (MG/L)	FIELD CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)
OCT.												
23...	14300	50	22	--	5.4	231	9	58	26	.7	323	12500
NOV.												
20...	13000	--	--	--	--	227	0	--	26	--	313	11000
DEC.												
18...	16000	--	--	--	--	210	2	--	--	--	322	13900
JAN.												
22...	22900	39	13	--	5.0	166	0	25	15	1.0	224	13900
FEB.												
26...	14600	--	--	--	--	204	0	--	--	--	314	12400
MAR.												
26...	16500	--	--	--	--	194	2	--	--	--	308	13700
APR.												
23...	29000	39	16	--	4.0	168	9	41	21	.5	280	21900
MAY												
21...	26600	--	--	--	--	170	6	--	--	--	266	19100
JUNE												
25...	14700	--	--	--	--	140	11	--	--	--	248	9840
JULY												
30...	6860	30	19	40	5.1	193	8	60	24	.6	--	--
AUG.												
27...	6500	43	19	36	5.0	198	11	55	25	.8	--	--
SEP.												
24...	10800	47	21	34	4.8	197	19	58	19	.7	--	--

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	FIELD SPECI-FIC COND-UCTANCE (MICRO-MHOS)	FIELD PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	TEMP-ERATURE (DEG C)	AIR TEMP-ERATURE (DEG C)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.											
23...	220	--	--	546	8.5	5	4	10.0	5.5	330	44
NOV.											
20...	--	--	--	529	8.2	--	--	7.5	10.5	280	5
DEC.											
18...	--	--	--	486	8.5	--	--	4.5	-1.5	36	18
JAN.											
22...	150	14	--	382	8.1	0	5	4.0	2.5	1600	--
FEB.											
26...	--	--	--	483	8.2	--	--	4.0	3.0	55	--
MAR.											
26...	--	--	--	456	8.4	--	--	8.5	15.0	220	160
APR.											
23...	160	7	--	425	8.8	5	0	10.5	9.5	230	42
MAY											
21...	--	--	--	411	8.5	--	--	11.5	16.0	120	58
JUNE											
25...	--	--	--	380	8.9	--	--	19.5	22.0	200	25
JULY											
30...	150	0	1.4	520	8.6	8	2	24.0	31.5	3500	46
AUG.											
27...	190	0	1.2	475	8.4	10	3	21.5	22.0	5000	41
SEP.											
24...	200	0	1.0	516	8.8	5	50	15.0	18.5	14000	25

13172850 SNAKE RIVER AT MARSING, IDAHO--Continued

DATE	NITRATE (N) (MG/L)	NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS. HYDRO-LYZABLE PHOS-PHORUS (P) (MG/L)[1]	TOTAL PHOS-PHORUS (P) (MG/L)	FIELD DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.												
23...	.36	.000	.02	.03	.41	.030	.050	.100	10.2	96	3.2	1.5
NOV.												
20...	.32	.000	.02	.03	.37	.070	.070	.090	11.5	104	2.2	1.0
DEC.												
18...	.36	.050	.09	.02	.52	.030	.050	.200	11.5	96	1.8	2.0
JAN.												
22...	.60	.000	.20	.02	.82	--	.160	.130	11.8	98	2.0	2.0
FEB.												
26...	.58	.020	.02	.00	.62	.070	.070	.130	12.2	101	3.0	.0
MAR.												
26...	.80	.010	.87	.48	2.2	.100	.100	.240	11.0	102	2.0	.0
APR.												
23...	.30	.000	.10	.25	.65	.020	.040	.120	11.2	108	4.3	1.0
MAY												
21...	.50	.000	.13	.22	.95	.030	.060	.120	10.4	103	1.9	.0
JUNE												
25...	.10	.000	.10	.24	.44	.020	.020	.040	10.6	127	3.6	1.0
JULY												
30...	.70	.000	.17	.17	1.0	.010	.040	.050	9.7	124	2.4	.0
AUG.												
27...	.65	.010	.09	.30	1.1	.010	.070	.080	8.4	102	3.0	--
SEP.												
24...	.94	.000	.11	.17	1.2	.010	.070	.110	9.7	103	1.6	--

1 Includes dissolved orthophosphorus.

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)
OCT.										
23...	0	20	0	1	9	0	1	0	1	0
NOV.										
20...	--	--	--	--	--	--	--	--	--	--
DEC.										
18...	--	--	--	--	--	--	--	--	--	--
JAN.										
22...	--	4330	360	2	0	3	3	43	5	10
FEB.										
26...	--	--	--	--	--	--	--	--	--	--
MAR.										
26...	--	--	--	--	--	--	--	--	--	--
APR.										
23...	500	50	50	--	4	0	0	7	1	0
MAY										
21...	--	--	--	--	--	--	--	--	--	--
JUNE										
25...	--	--	--	--	--	--	--	--	--	--
JULY										
30...	--	10	--	1	--	2	0	0	--	5
AUG.										
27...	--	10	--	--	--	0	0	0	--	--
SEP.										
24...	--	10	--	--	--	1	3	20	--	--

13172850 SNAKE RIVER AT MARSING, IDAHO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
OCT. 23...	0	0	9.7	0	10	66	0	0	<.5
NOV. 20...	--	--	--	--	--	--	--	--	<.5
DEC. 18...	--	--	--	--	--	--	--	--	<.5
JAN. 22...	0	130	16	1	0	0	0	30	<.5
FEB. 26...	--	--	--	--	--	--	--	--	<.5
MAR. 26...	--	--	--	--	--	--	--	--	<.5
APR. 23...	0	0	2.6	--	0	0	0	70	.8
MAY 21...	--	--	--	--	--	--	--	--	<.5
JUNE 25...	--	--	--	--	--	--	--	--	<.5
JULY 30...	0	--	8.5	--	--	--	--	--	.0
AUG. 27...	--	--	--	--	--	--	--	--	.0
SEP. 24...	--	--	--	--	--	--	--	--	.3

DATE	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL STRON-TIUM (SR) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL BORON (B) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 23...	130	30	290	1	--	3	<10	<10	<10	160	.1
NOV. 20...	--	--	--	--	--	--	--	--	--	--	.2
DEC. 18...	--	--	--	--	--	--	--	--	--	--	.1
JAN. 22...	2900	60	150	2	<10	<1	80	--	--	--	.3
FEB. 26...	--	--	--	--	--	--	--	--	--	--	.5
APR. 23...	390	50	210	--	10	<1	10	--	--	60	--
MAY 21...	--	--	--	--	--	--	--	--	--	--	.3
JULY 30...	60	--	--	1	<10	4	<10	6	<1	--	--

13200000 MORES CREEK ABOVE ROBIE CREEK, NEAR ARROWROCK DAM, IDAHO

LOCATION.--Lat 43°38'53", long 115°59'20", in SE¼ sec.28, T.4 N., R.4 E., Boise County, temperature recorder at gaging station on left bank, at State roadside park, 1.7 miles upstream from Robie Creek, 5 miles northwest of Arrowrock Dam, and at mile 5.8.
DRAINAGE AREA.--399 sq mi.
PERIOD OF RECORD.--Water temperatures: December 1964 to September 1971.
EXTREMES.--1970-71:
Water temperatures: Maximum, 25.5° C Aug. 6, 8; minimum, freezing point on many days during December, January, and February.
Period of record:
Water temperatures:(1964-71): Maximum (1964-65, 1967-71), 27° C on several days during July and August in 1969; minimum (1965-71), freezing point on several days during winter months each year.
REMARKS.--No record Nov. 6-20, Mar. 13-17, Apr. 2-6, 16-18, 22-24, and 26-29.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	9.0	4.0	2.0	3.0	1.0	0	0	1.0	0	0	0
2	12.0	9.0	4.0	1.5	1.5	1.0	0	0	1.5	1.0	0	0
3	13.0	9.0	3.5	1.0	1.5	0	0	0	1.0	0	1.5	0
4	12.0	8.5	3.5	1.0	0.5	0	0	0	1.0	0	2.0	0.5
5	11.0	9.5	4.5	3.5	1.0	0.5	0	0	1.0	0	1.5	0
6	9.5	6.5	---	---	2.0	1.0	0	0	0	0	0.5	0
7	6.5	4.5	---	---	3.0	2.0	0	0	0	0	2.0	0
8	6.5	4.5	---	---	3.5	3.0	0	0	0	0	3.0	0
9	8.5	6.5	---	---	3.5	3.5	0	0	0.5	0	3.0	0
10	9.0	6.5	---	---	3.5	1.0	0	0	2.0	0.5	4.0	1.5
11	9.0	6.0	---	---	1.5	1.0	0	0	3.0	1.0	4.5	2.0
12	10.5	8.5	---	---	1.0	0	0	0	3.0	1.0	3.5	1.5
13	9.0	5.5	---	---	0	0	0	0	3.5	1.5	---	---
14	7.0	4.5	---	---	0	0	0	0	3.5	1.5	---	---
15	6.0	4.0	---	---	0	0	0	0	4.0	3.5	---	---
16	6.0	3.5	---	---	0.5	0	0	0	3.5	2.0	---	---
17	6.0	3.5	---	---	0.5	0	0	0	3.5	2.0	---	---
18	6.0	4.0	---	---	0	0	0	0	4.0	2.0	4.0	0.5
19	7.0	5.5	---	---	0	0	0.5	0	4.0	3.0	4.5	0.5
20	7.0	6.0	---	---	0	0	0.5	0.5	3.0	1.5	5.0	0.5
21	6.0	5.0	3.5	1.0	0	0	0.5	0.5	1.5	0	6.0	3.0
22	6.0	5.5	1.0	0.5	0	0	0	0	2.0	0.5	5.5	4.0
23	5.5	3.5	1.0	0	0	0	0.5	0	2.0	0	4.5	4.5
24	4.5	3.5	2.0	1.0	0	0	1.0	0.5	2.0	1.0	5.5	4.0
25	4.5	3.0	3.5	2.0	0	0	1.0	0.5	2.0	0.5	5.0	4.0
26	3.5	2.0	3.5	3.0	0	0	1.5	1.0	1.0	0	5.5	4.0
27	3.0	0	3.0	1.0	0	0	1.0	0.5	0.5	0	5.0	3.5
28	2.0	0	2.0	1.0	0	0	0.5	0	0	0	5.5	3.5
29	2.0	0	2.0	1.5	0	0	0.5	0	---	---	6.5	4.0
30	3.0	0.5	3.0	2.0	0	0	1.5	0	---	---	6.5	4.5
31	4.5	2.0	---	---	0	0	1.5	0	---	---	6.0	4.0
MONTH	13.0	0	---	---	3.5	0	1.5	0	4.0	0	6.5	0

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

13210780 FIVE MILE CREEK NEAR NAMPA, IDAHO

LOCATION.--Lat 43°38'55", long 116°31'56", at SW¼ cor. sec.25, T.4 N., R.2 W., Canyon County, at county road crossing.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--Chemical analyses: December 1969 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)
DEC. 30...	38	40	53	19	67	4.0	327	0	59	14	.6	.74
JULY 23...	79	27	27	8.3	29	3.9	158	0	28	5.1	.3	3.1

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	FIELD PH (UNITS)	TEMP-ERATURE (DEG C)	AIR TEMP-ERATURE (DEG C)	DIS-SOLVED IRON (FE) (UG/L)
DEC. 30...	.06	440	45.1	210	0	2.0	40	642	8.2	4.0	1.5	110
JULY 23...	.350	221	47.1	100	0	1.3	37	319	6.7	18.0	27.0	--

DATE	TIME	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	FIELD DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC. 30...	1015	3280	1250	11.1	93	.9	5.0
JULY 23...	0910	--	--	6.4	74	7.0	2.0

13210980 MASON CREEK AT CALDWELL, IDAHO

LOCATION.--Lat 43°40'49", long 116°39'44", in NE¼NE¼SW¼ sec.14, T.4 N., R.3 W., Canyon County, at county road crossing.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--Chemical analyses: February 1970 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)
DEC.												
30...	70	45	56	20	76	3.6	333	0	78	14	.8	1.0
JULY												
22...	197	30	34	10	41	3.3	204	0	42	6.9	.5	2.2

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	FIELD PH (UNITS)	TEMP-ERATURE (DEG C)	AIR TEMP-ERATURE (DEG C)
DEC.											
30...	.07	460	86.9	220	0	2.2	42	708	8.2	7.5	3.0
JULY											
22...	.380	279	148	130	0	1.6	41	442	6.8	20.0	32.0

DATE	TIME	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	FIELD DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC.							
30...	1300	3500	640	10.7	97	.8	4.5
JULY							
22...	1300	--	--	8.3	98	4.0	2.0

DATE	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)
DEC.										
30...	120	0	390	0	0	0	1	0	10	5
JULY										
22...	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED BORON (B) (UG/L)
DEC.									
30...	0	0	0	14	0	0	0	0	160
JULY									
22...	--	--	--	--	--	--	--	--	80

13211440 INDIAN CREEK AT CALDWELL, IDAHO

LOCATION.--Lat 43°40'07", long 116°41'28", in NW¼NW¼SW¼ sec.22, T.4 N., R.3 W., Canyon County, at Fourth Avenue crossing in Caldwell.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--Chemical analyses: December 1969 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)
OCT.												
23...	311	40	62	19	84	9.9	340	0	94	23	.5	11
DEC.												
29...	238	47	61	19	80	7.3	324	0	90	24	.7	1.5
JULY												
23...	205	43	46	15	68	4.8	268	--	71	22	.6	2.7

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	FIELD PH (UNITS)	TEMP-ERATURE (DEG C)	AIR TEMP-ERATURE (DEG C)
OCT.											
23...	.650	557	468	232	0	2.4	43	765	7.9	12.5	9.5
DEC.											
29...	.260	450	289	230	0	2.3	42	777	8.0	10.0	5.0
JULY											
23...	.430	416	230	180	0	2.2	45	612	7.3	18.5	27.0

DATE	TIME	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	FIELD DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.								
23...	1340	460000	120000	4.2	43	--	--	<0.5
DEC.								
29...	1415	3800	500	8.6	83	5.4	7.0	--
JULY								
23...	1140	--	--	8.3	95	3.4	2.5	--

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT.											
23...	--	--	--	--	--	<1	--	--	--	<1	<10
DEC.											
29...	700	120	0	340	30	--	1	1	1	0	10
JULY											
23...	--	10	30	260	13	--	1	0	26	0	30

DATE	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
OCT.											
23...	<1	1	<1	--	--	--	--	--	--	--	--
DEC.											
29...	5	0	0	0	15	1	0	0	0	190	--
JULY											
23...	1	1	1	--	37	0	--	0	0	120	.2

13212500 BOISE RIVER AT NOTUS, IDAHO
(Irrigation network station)

LOCATION.--Lat 43°43'21", long 116°47'34", in S½SE¼ sec.34, T.5 N., R.4 W., Canyon County, at highway bridge 1,100 ft downstream from gaging station, 0.3 mile southeast of Notus, 7 miles northwest of Caldwell, and at mile 14.0.
DRAINAGE AREA.--3,820 sq mi, approximately.
PERIOD OF RECORD.--Chemical analyses: January 1939 to January 1940, November 1950 to September 1971.
Water temperatures: November 1950 to September 1971.
Sediment records: January 1939 to June 1940.
EXTREMES.--1970-71:
Specific conductance: Maximum daily, 618 micromhos Nov. 12, 18; minimum daily, 114 micromhos Apr. 11.
Water temperatures: Maximum daily, 25° C Aug. 3; minimum daily, 1.5° C Jan. 3, 5, 6.
Period of record:
Specific conductance (1939-40, 1950-71): Maximum daily, 1,470 micromhos July 30, Aug. 26, 1939; minimum daily, 82 micromhos Apr. 27, 1952.
Water temperatures (1939-40, 1950-71): Maximum daily, 29° C on several days during summer months in 1951, 1952, and 1954; minimum daily (1939-40, 1950-64, 1966-71), freezing point Jan. 31, 1956, Jan. 11-14, 1963.
REMARKS.--No appreciable inflow between gaging station and sampling point except during periods of heavy local runoff.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
OCT.											
15...	1050	31	37	11	50	214	6	47	15	.43	.420
NOV.											
15...	870	36	12	12	65	233	0	60	17	.77	.070
DEC.											
11...	1090	--	41	10	51	222	0	51	14	.86	.460
JAN.											
13-14	2840	--	20	5.0	23	108	0	18	5.3	1.4	.200
FEB.											
12-14	6900	--	14	2.9	12	70	0	9.0	2.6	.60	.140
MAR.											
15...	6860	--	14	2.6	10	68	0	11	2.7	.60	.200
APR.											
15...	6920	--	13	2.2	8.9	70	0	7.3	1.7	.50	.200
MAY											
16...	6790	--	11	2.1	8.9	54	0	7.3	2.2	.40	.150
JUNE											
15...	2270	--	17	3.9	16	92	0	15	4.1	.82	.160
JULY											
15...	623	--	30	7.4	35	164	0	36	9.8	1.5	.300
AUG.											
15...	398	--	39	11	37	220	0	52	13	.09	.300
SEP.											
15...	664	--	35	9.9	47	200	0	50	13	1.7	.280

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (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	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
OCT.										
15...	282	.38	799	138	0	1.9	44	465	8.4	11.0
NOV.										
15...	349	.47	820	80	0	3.2	64	580	7.9	8.0
DEC.										
11...	331	.45	974	144	0	1.9	44	515	8.1	6.5
JAN.										
13-14	132	.18	1010	70	0	1.2	42	236	7.8	3.0
FEB.										
12-14	92	.13	1710	50	0	.8	36	143	8.0	4.5
MAR.										
15...	98	.13	1820	46	0	.6	32	139	8.0	4.5
APR.										
15...	88	.12	1640	41	0	.6	32	122	7.4	9.0
MAY										
16...	90	.12	1650	36	0	.6	--	119	7.6	10.0
JUNE										
15...	150	.20	919	58	0	.9	--	200	7.8	16.0
JULY										
15...	242	.33	407	110	0	1.5	42	358	8.0	21.0
AUG.										
15...	324	.44	348	140	0	1.3	--	479	7.8	22.0
SEP.										
15...	294	.40	527	130	0	1.8	--	458	7.6	15.0

13212500 BOISE RIVER AT NOTUS, IDAHO--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

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

SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	501	585	566	481	181	143	141	120	138	142	422	464
2	510	582	535	481	183	138	125	123	142	138	420	461
3	519	590	561	494	174	144	126	124	166	136	449	468
4	515	610	525	499	178	146	121	128	165	133	475	453
5	533	616	522	510	174	142	126	131	163	134	468	430
6	516	602	512	503	171	141	121	124	163	137	472	432
7	521	612	513	482	180	139	129	125	157	185	470	421
8	489	614	490	523	171	140	122	123	163	249	468	436
9	497	605	493	449	176	145	117	124	167	248	466	436
10	497	612	504	332	160	143	116	121	173	270	495	452
11	473	604	501	308	159	139	114	122	169	276	478	440
12	475	618	493	336	152	137	118	124	190	274	495	466
13	474	611	510	249	152	139	118	119	197	284	508	457
14	472	613	498	247	151	142	118	120	193	286	501	454
15	488	592	493	199	149	140	122	119	197	333	493	455
16	508	595	495	201	148	140	122	118	170	391	472	458
17	549	595	501	203	147	143	119	119	170	371	486	452
18	554	613	517	215	146	139	121	120	149	409	485	455
19	553	616	496	206	145	139	117	123	145	404	486	453
20	560	602	513	206	146	139	118	121	140	378	481	456
21	585	603	491	201	145	140	119	125	134	378	485	447
22	600	604	514	202	148	136	116	122	139	399	437	463
23	582	610	515	202	145	139	117	123	125	415	433	453
24	581	608	500	208	143	141	120	119	133	416	440	401
25	597	614	483	203	143	138	117	133	125	451	448	481
26	575	601	512	201	144	143	120	131	134	454	466	471
27	596	589	510	204	141	142	119	131	135	445	483	449
28	580	587	503	205	141	134	119	135	132	467	492	439
29	585	587	493	184	---	133	120	139	123	451	482	437
30	580	606	485	176	---	136	119	135	131	437	473	428
31	586	---	---	185	---	133	---	135	---	445	477	---
MONTH	538	603	508	300	157	140	121	125	154	321	471	453
YEAR	325											

13212880 DIXIE SLOUGH NEAR WILDER, IDAHO

LOCATION.--Lat 43°42'45", long 116°52'15", in NW¼NW¼SW¼ sec.6, T.4 N., R.4 W., Canyon County, at county road crossing.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--Chemical analyses: February 1970 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)
DEC. 29...	83	51	53	20	110	5.3	337	0	100	31	.8	1.0
JULY 22...	128	37	44	12	72	5.5	280	--	62	19	.3	1.8

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	FIELD PH (UNITS)	TEMP-ERATURE (DEG C)	AIR TEMP-ERATURE (DEG C)
DEC. 29...	.16	540	122	210	0	3.3	52	778	8.1	6.0	3.0
JULY 22...	.440	398	138	160	0	2.5	49	574	6.7	20.5	31.0

DATE	TIME	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	FIELD DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC. 29...	1020	16000	1300	10.7	92	1.8	2.0
JULY 22...	1040	--	--	6.6	79	4.0	1.5

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
DEC. 29...	20	80	0	310	10	1	0	0	0

DATE	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)
DEC. 29...	10	4	0	0	16	0	13	0

13213000 BOISE RIVER NEAR PARMA, IDAHO

LOCATION.--Lat 43°46'54", long 116°58'17", in SE¼NE¼SE¼ sec.7, T.5 N., R.5 W., Canyon County, at county road crossing, 1.25 miles west of Parma, and 3.6 miles upstream from mouth.

DRAINAGE AREA.--3,970 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	FIELD BICAR-BONATE (HCO3) (MG/L)	FIELD CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT.												
21...	1220	--	49	14	--	5.3	230	0	65	20	.5	403
NOV.												
18...	966	35	--	--	--	--	274	0	--	20	--	397
DEC.												
16...	1250	--	--	--	--	--	230	0	--	--	--	360
JAN.												
20...	4400	20	20	4.5	--	2.7	97	0	18	5.1	.4	134
FEB.												
24...	7010	--	--	--	--	--	82	0	--	--	--	100
MAR.												
24...	7580	--	--	--	--	--	67	0	--	--	--	110
APR.												
21...	7000	--	13	2.6	--	1.3	59	0	6.8	2.6	.2	106
MAY												
19...	6840	--	--	--	--	--	68	0	--	--	--	114
JUNE												
23...	5610	--	--	--	--	--	61	0	--	--	--	130
JULY												
28...	931	--	40	11	55	4.6	216	0	53	16	.5	--
AUG.												
25...	861	--	39	11	56	4.3	214	0	55	17	.5	--
SEP.												
22...	1020	--	38	11	53	4.2	226	0	53	11	.6	--

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	FIELD SPECI-FIC COND-UCTANCE (MICRO-MHOS)	FIELD PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	TEMP-ERATURE (DEG C)	AIR TEMP-ERATURE (DEG C)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.												
21...	1330	130	--	--	596	8.1	5	2	10.0	12.0	--	48000
NOV.												
18...	1040	--	--	--	559	7.8	--	--	8.0	9.0	25000	4200
DEC.												
16...	1220	--	--	--	528	7.7	--	--	5.0	3.0	8100	810
JAN.												
20...	1530	68	0	--	219	7.9	--	--	5.0	4.5	5400	--
FEB.												
24...	1820	--	--	--	160	7.6	--	--	4.0	11.5	26000	--
MAR.												
24...	2250	--	--	--	150	7.7	--	--	6.0	14.0	20000	620
APR.												
21...	2000	43	0	--	126	7.9	10	9	9.0	11.0	3400	120
MAY												
19...	2110	--	--	--	138	7.8	--	--	11.5	--	5900	870
JUNE												
23...	1970	--	--	--	146	7.7	--	--	16.5	29.5	14000	1100
JULY												
28...	--	150	0	2.0	504	8.2	30	7	21.0	30.0	70000	690
AUG.												
25...	--	140	--	2.0	498	8.1	30	10	18.5	28.5	3200	310
SEP.												
22...	--	140	0	1.9	466	8.1	10	30	12.5	14.5	44000	470

13213000 BOISE RIVER NEAR PARMA, IDAHO--Continued

DATE	NITRATE (N) (MG/L)	NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS. HYDRO-LYZABLE PHOS-PHORUS (P) (MG/L)[1]	TOTAL PHOS-PHORUS (P) (MG/L)	FIELD DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.												
21...	.56	.000	.02	.16	.74	.260	.200	.310	8.9	85	4.1	2.5
NOV.												
18...	.60	.000	.00	.07	.67	.330	--	.360	9.8	89	5.6	3.5
DEC.												
16...	.74	.160	.02	.17	1.1	.290	.280	.860	9.7	82	5.6	3.0
JAN.												
20...	.20	.070	.05	.20	.52	.110	.100	3.9	11.3	96	2.9	2.0
FEB.												
24...	.59	.010	.15	.03	.78	.070	.130	.130	11.5	96	4.0	1.0
MAR.												
24...	.50	.010	.88	.40	1.8	.100	.100	.150	11.3	97	1.6	1.0
APR.												
21...	.40	.000	.11	.22	.73	.070	.100	.150	10.0	92	2.7	2.0
MAY												
19...	.40	.000	.15	.25	.80	.100	.130	.200	9.8	97	2.1	6.0
JUNE												
23...	.50	.000	.18	.29	.97	.100	.100	.200	8.8	97	3.4	1.0
JULY												
28...	1.4	.020	.37	.20	2.0	.250	.300	.350	7.1	85	2.1	5.0
AUG.												
25...	1.2	.010	.12	.33	1.7	.210	.280	.300	8.4	97	1.9	--
SEP.												
22...	1.5	.010	.12	.26	1.9	.210	.280	.320	8.5	86	.9	--

1 Includes dissolved orthophosphorus.

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)
OCT.										
21...	0	100	40	1	0	1	0	0	0	60
JAN.										
20...	400	300	0	0	3	2	0	0	0	0
APR.										
21...	600	140	30	--	8	0	0	30	1	0
JULY										
28...	--	30	--	<1	--	4	0	0	--	0
AUG.										
25...	--	20	--	--	--	1	0	0	--	--
SEP.										
22...	--	20	--	--	--	1	0	0	--	--

DATE	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
OCT.									
21...	0	400	14	0	0	60	0	0	.9
JAN.									
20...	0	0	8.0	0	0	0	0	40	<.5
APR.									
21...	0	100	.8	--	10	0	1	20	<.5
JULY									
28...	0	--	10	--	--	--	--	--	.0
AUG.									
25...	--	--	--	--	--	--	--	--	.0
SEP.									
22...	--	--	--	--	--	--	--	--	.3

DATE	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL STRON-TIUM (SR) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL BORON (B) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
21...	180	50	340	1	<10	6	10	<10	<1	130	.2
JAN.											
20...	2300	80	120	0	<10	<1	120	--	--	50	.8
APR.											
21...	500	40	100	--	10	8	10	--	--	<10	.3
JULY											
28...	480	--	--	<1	<10	2	20	10	<1	--	--

13238000 PAYETTE RIVER NEAR BANKS, IDAHO

LOCATION.--Lat 44°05'08", long 116°05'56", in NE¼SE¼ sec.28, T.9 N., R.3 E., Boise County, Boise National Forest, on right bank 1 mile upstream from North Fork Payette River, 1.5 miles northeast of Banks, and at mile 73.8.
DRAINAGE AREA.--1,200 sq mi, approximately. Mean altitude, 6,020 ft.
PERIOD OF RECORD.--Water temperatures: May to September 1971.
EXTREMES.--1970-71:
Water temperatures: Maximum, 18.5° C July 27, 1971.
Period of record:
Water temperatures (1971): Maximum, 18.5° C July 27, 1971.
REMARKS.--No record July 16-20.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

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

13246000 NORTH FORK PAYETTE RIVER NEAR BANKS, IDAHO

LOCATION.--Lat 44°06'50", long 116°06'25", in NW¼SE¼ sec.16, T.9 N., R.3 E., Boise County, on right bank 40 ft downstream from highway bridge, 2.5 miles north of Banks, and at mile 2.8.
DRAINAGE AREA.--933 sq mi. Mean altitude, 5,800 ft.
PERIOD OF RECORD.--Water temperatures: July to September 1971.
EXTREMES.--1970-71:
Water temperatures: Maximum, 22.5° C July 18-19, Aug. 18-20, 1971.
Period of record:
Water temperatures (1971): Maximum, 22.5° C July 18-19, Aug. 18-20, 1971.
REMARKS.--No record Sept. 5-24, 1971.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	21.5	21.0	19.0	17.5
2	---	---	---	---	---	---	---	---	21.0	21.0	18.0	17.5
3	---	---	---	---	---	---	---	---	21.0	21.0	17.5	17.0
4	---	---	---	---	---	---	---	---	21.0	21.0	17.5	16.5
5	---	---	---	---	---	---	---	---	21.0	21.0	---	---
6	---	---	---	---	---	---	---	---	21.0	21.0	---	---
7	---	---	---	---	---	---	---	---	21.0	21.0	---	---
8	---	---	---	---	---	---	---	---	21.0	21.0	---	---
9	---	---	---	---	---	---	---	---	21.0	21.0	---	---
10	---	---	---	---	---	---	---	---	21.0	21.0	---	---
11	---	---	---	---	---	---	---	---	21.0	21.0	---	---
12	---	---	---	---	---	---	---	---	21.5	21.0	---	---
13	---	---	---	---	---	---	19.5	15.5	21.5	21.5	---	---
14	---	---	---	---	---	---	21.0	17.5	21.5	21.5	---	---
15	---	---	---	---	---	---	21.0	19.0	21.5	21.5	---	---
16	---	---	---	---	---	---	21.0	20.0	21.5	21.5	---	---
17	---	---	---	---	---	---	22.0	21.0	21.5	21.0	---	---
18	---	---	---	---	---	---	22.5	22.0	22.5	20.5	---	---
19	---	---	---	---	---	---	22.5	22.5	22.5	21.0	---	---
20	---	---	---	---	---	---	21.5	21.0	22.5	21.0	---	---
21	---	---	---	---	---	---	21.5	21.0	22.0	21.0	---	---
22	---	---	---	---	---	---	21.0	21.0	22.0	20.5	---	---
23	---	---	---	---	---	---	21.0	21.0	21.0	19.0	---	---
24	---	---	---	---	---	---	21.0	21.0	20.5	19.0	---	---
25	---	---	---	---	---	---	21.0	21.0	21.0	20.0	14.0	14.0
26	---	---	---	---	---	---	21.0	21.0	21.0	19.5	14.0	12.5
27	---	---	---	---	---	---	21.5	21.0	21.0	20.0	12.5	12.0
28	---	---	---	---	---	---	21.5	21.5	21.5	20.0	12.0	11.0
29	---	---	---	---	---	---	21.5	21.5	21.5	20.0	11.0	11.0
30	---	---	---	---	---	---	21.5	21.5	21.0	20.0	11.0	10.5
31	---	---	---	---	---	---	21.5	21.5	21.0	19.0	---	---
MONTH	---	---	---	---	---	---	---	---	22.5	19.0	---	---
YEAR	22.5	10.5										

13247500 PAYETTE RIVER NEAR HORSESHOE BEND, IDAHO

LOCATION.--Lat 43°56'33", long 116°11'45", in NE¼SE¼ sec.15, T.7 N., R.2 E., Boise County, on left bank 0.6 mile upstream from bridge on State Highway 55, 0.5 mile downstream from Porter Creek, 2 miles north of Horseshoe Bend, and at mile 60.7.
DRAINAGE AREA.--2,230 sq mi, approximately.
PERIOD OF RECORD.--Water temperatures: July to September 1971.
EXTREMES.--1970-71:
Water temperatures: Maximum, 21.0° C July 27.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

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

13251300 WEST BRANCH WEISER RIVER NEAR TAMARACK, IDAHO

LOCATION.--Lat 45°01'14", long 116°26'06", in SE¼SE¼ sec.34, T.20 N., R.1 W., Adams County, temperature recorder at gaging station on left bank, at Price Valley guard station, 0.1 mile upstream from East Branch Weiser River, and 5.2 miles northwest of Tamarack.
DRAINAGE AREA.--3.96 sq mi.
PERIOD OF RECORD.--Water temperatures: August 1959 to September 1971.
EXTREMES.--1970-71:
Water temperatures: Minimum, freezing point on many days during winter months.
Period of record:
Water temperatures (1959-71): Maximum (1959-63, 1964-70), 17° C July 20, 1960, Aug. 12, 1963, July 31, 1966; minimum, freezing point on many days during winter months.
REMARKS.--No record Dec. 4-18, Jan. 21-26, Feb. 3-24, Aug. 10-31.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	5.5	2.0	1.0	1.0	0.5	1.5	0.5	1.0	0.5	0.5	0
2	8.5	5.5	2.0	1.0	1.0	0.5	1.5	0.5	0.5	0.5	0.5	0.5
3	8.5	6.0	2.0	1.0	0.5	0.5	1.0	0.5	---	---	0.5	0
4	8.5	5.5	2.0	1.0	---	---	1.0	0.5	---	---	1.0	1.0
5	8.5	7.0	3.0	2.0	---	---	1.5	1.0	---	---	1.5	1.0
6	7.0	4.5	4.0	3.0	---	---	1.5	1.0	---	---	1.0	0.5
7	5.0	3.5	4.0	4.0	---	---	1.0	1.0	---	---	1.5	0.5
8	5.0	4.0	4.0	3.5	---	---	1.0	1.0	---	---	1.5	0.5
9	6.0	5.0	3.5	3.5	---	---	1.0	1.0	---	---	1.5	1.5
10	6.0	5.0	3.5	3.0	---	---	1.0	0.5	---	---	1.5	1.5
11	6.0	5.0	3.0	2.0	---	---	1.0	0.5	---	---	1.5	1.5
12	7.0	6.0	3.5	3.0	---	---	1.0	1.0	---	---	1.5	1.5
13	6.5	3.5	3.5	1.5	---	---	1.0	1.0	---	---	1.5	1.5
14	5.0	3.0	2.0	1.0	---	---	1.0	0.5	---	---	1.5	1.0
15	4.5	2.0	2.0	1.0	---	---	0.5	0.5	---	---	1.5	1.0
16	4.5	2.0	2.0	1.5	---	---	0.5	0.5	---	---	1.5	0.5
17	4.5	2.0	1.5	0.5	---	---	0.5	0.5	---	---	1.0	1.0
18	4.5	3.5	0.5	0.5	---	---	0.5	0	---	---	1.0	1.0
19	6.5	4.5	0.5	0.5	1.0	0.5	0	0	---	---	1.5	1.0
20	6.5	5.5	0.5	0	1.0	1.0	1.0	0	---	---	1.5	1.0
21	5.5	5.0	0.5	0	1.5	1.0	---	---	---	---	2.0	2.0
22	5.0	4.5	1.0	0	1.5	0.5	---	---	---	---	2.0	2.0
23	4.5	2.0	0.5	0	1.0	0.5	---	---	---	---	2.0	2.0
24	3.5	2.0	0.5	0	0.5	0.5	---	---	---	---	2.0	2.0
25	3.5	3.5	1.5	0.5	1.0	0.5	---	---	1.0	1.0	2.0	2.0
26	3.5	2.0	1.5	1.5	1.0	1.0	---	---	1.0	0.5	2.0	1.5
27	3.0	1.0	1.5	0.5	1.5	1.5	1.0	1.0	0.5	0.5	2.0	2.0
28	1.5	1.0	1.0	0.5	1.5	1.0	1.0	1.0	0.5	0.5	2.0	2.0
29	1.5	1.0	1.5	1.0	1.0	1.0	1.0	1.0	---	---	2.0	2.0
30	1.5	1.0	1.5	0.5	1.0	1.0	1.0	1.0	---	---	2.0	2.0
31	3.0	1.5	---	---	1.5	1.0	0.5	0.5	---	---	2.0	2.0
MONTH	8.5	1.0	4.0	0	---	---	1.5	0	---	---	2.0	0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	2.0	2.0	6.0	4.0	5.5	5.0	10.5	7.0	14.0	10.5	10.5	8.0
2	2.0	2.0	5.5	4.0	6.5	4.5	10.0	8.0	14.0	12.0	10.0	8.5
3	2.0	2.0	6.5	4.0	6.0	5.0	10.0	6.5	14.5	11.0	9.0	8.0
4	2.0	2.0	6.5	3.5	8.0	5.5	10.5	7.0	14.5	11.0	9.5	6.0
5	2.0	2.0	5.0	4.0	8.5	5.0	10.5	7.0	13.5	10.5	10.5	6.5
6	2.0	2.0	6.5	4.0	8.0	5.0	10.5	8.0	13.5	11.5	11.0	8.5
7	2.0	1.5	6.5	4.0	9.5	6.0	10.0	6.0	13.5	10.5	11.0	8.0
8	2.0	2.0	5.5	4.0	10.0	6.5	11.0	7.0	14.0	10.5	10.0	6.0
9	2.0	2.0	6.0	4.0	8.5	6.5	11.5	8.5	14.5	10.5	10.0	6.5
10	3.0	2.0	7.0	4.0	8.0	6.5	11.0	9.0	---	---	11.0	7.0
11	3.0	3.0	7.0	4.0	10.0	6.0	10.0	7.0	---	---	11.0	8.0
12	3.0	2.0	7.0	4.0	10.0	6.0	10.5	6.5	---	---	11.0	7.0
13	3.0	3.0	6.5	5.0	9.5	8.0	11.0	7.0	---	---	10.5	8.0
14	3.0	3.0	7.0	4.0	10.0	6.5	11.5	8.0	---	---	10.5	6.5
15	3.5	2.0	6.0	4.5	9.5	6.0	11.5	8.0	---	---	9.0	5.0
16	3.5	3.0	5.0	4.5	10.0	6.5	12.0	10.0	---	---	8.0	5.0
17	3.0	3.0	4.5	4.0	9.0	6.5	13.5	9.5	---	---	7.0	4.0
18	3.0	3.0	6.0	4.0	9.0	8.0	12.0	9.0	---	---	6.5	4.0
19	3.5	3.0	5.0	4.5	10.0	7.0	12.0	10.0	---	---	6.5	3.5
20	3.5	3.0	5.0	4.0	10.5	7.0	12.0	10.0	---	---	8.0	5.0
21	3.5	3.0	6.0	4.0	11.0	8.0	13.0	9.5	---	---	8.0	4.0
22	3.5	3.0	8.0	4.5	12.0	9.0	13.5	10.0	---	---	6.5	3.5
23	3.5	3.5	8.5	4.5	11.0	9.0	13.5	10.0	---	---	7.0	4.0
24	3.5	3.5	8.5	4.5	11.5	8.5	13.0	9.5	---	---	8.0	5.0
25	4.5	3.5	8.0	5.0	11.0	9.0	13.0	10.0	---	---	8.0	6.5
26	4.5	3.0	8.0	4.5	9.0	8.5	13.0	9.5	---	---	7.0	6.0
27	4.0	3.5	9.0	5.0	9.0	7.0	13.5	9.5	---	---	6.0	4.0
28	5.0	3.5	9.0	5.0	8.5	6.5	13.5	10.0	---	---	4.5	3.5
29	5.5	4.0	8.5	5.0	9.0	5.5	13.5	10.0	---	---	4.5	4.0
30	5.5	4.0	6.5	5.5	10.0	6.5	13.5	10.5	---	---	4.5	3.0
31	---	---	6.0	5.5	---	---	14.0	10.5	---	---	---	---
MONTH	5.5	1.5	9.0	3.5	12.0	4.5	14.0	6.0	---	---	11.0	3.0
YEAR	14.5	0										

SNAKE RIVER MAIN STEM

13269000 SNAKE RIVER AT WEISER, IDAHO

LOCATION.--Lat 44°14'44", long 116°58'48", in NW¼SE¼ sec.31, T.11 N., R.5 W., Washington County, at gaging station on right bank at upstream side of U.S. Highway 30N bridge at Weiser, 0.7 mile downstream from Weiser River, and at mile 351.3.
DRAINAGE AREA.--69,200 sq mi, approximately.
PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1971.
Water temperatures: June 1967 to September 1971.
EXTREMES.--1970-71:
Water temperatures: Maximum, 27.0° C Aug. 2-4, 7-9; minimum, 0° C Jan. 4-6.
Period of record:
Water temperatures (1967-71): Maximum, 27° C July 7-10, 1968, Aug. 2-4, 7-9, 1971; minimum, freezing point Dec. 14-17, 21, 1967.
REMARKS.--Temperature observations are made at approximately 0800 and 1700 each day, on left bank 1,200 ft upstream from U.S. Highway 30N bridge. No temperature record Feb. 12 to Mar. 31.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	FIELD BICAR-BONATE (HCO3) (MG/L)	FIELD CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT.												
21...	17500	--	43	19	--	--	216	0	59	23	.6	339
NOV.												
18...	17100	28	--	--	--	--	210	0	--	23	--	243
DEC.												
16...	21400	--	--	--	--	--	184	4	--	--	--	286
JAN.												
20...	63500	24	33	11	--	4.6	162	0	36	15	.6	228
FEB.												
24...	33500	--	--	--	--	--	138	0	--	--	--	220
MAR.												
24...	42000	--	--	--	--	--	128	0	--	--	--	212
APR.												
21...	58400	--	30	10	--	3.1	118	6	16	13	.4	190
MAY												
19...	51800	--	--	--	--	--	122	2	--	--	--	
JUNE												
23...	38600	--	--	--	--	--	74	7	--	--	--	156
JULY												
28...	11300	--	39	15	42	5.9	165	12	61	18	.6	--
AUG.												
25...	11200	--	34	14	41	4.8	134	28	54	19	.6	--
SEP.												
22...	13500	--	38	16	40	4.6	157	21	59	15	.6	--

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	FIELD SPECI-FIC COND-UCTANCE (MICRO-MHOS)	FIELD PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	TEMP-ERATURE (DEG C)	AIR TEMP-ERATURE (DEG C)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.												
21...	16000	190	--	--	526	8.2	0	10	10.0	14.0	2500	230
NOV.												
18...	11200	--	--	--	509	8.1	--	--	7.0	8.5	810	130
DEC.												
16...	16500	--	--	--	439	8.5	--	--	4.0	5.0	470	240
JAN.												
20...	39100	130	0	--	366	8.2	--	--	5.0	2.0	4500	--
FEB.												
24...	19900	--	--	--	338	7.8	--	--	5.5	11.0	3600	--
MAR.												
24...	24000	--	--	--	313	7.8	--	--	8.0	17.0	2400	360
APR.												
21...	30000	120	13	--	300	8.7	20	20	10.5	17.0	240	150
MAY												
19...	--	--	--	--	283	8.4	--	--	13.0	17.0	1200	410
JUNE												
23...	16300	--	--	--	221	8.9	--	--	19.0	30.0	10000	220
JULY												
28...	--	160	5	1.4	469	8.8	10	4	25.5	38.0	21000	270
AUG.												
25...	--	140	--	1.5	451	8.8	20	10	21.5	29.0	1500	96
SEP.												
22...	--	160	0	1.4	475	8.9	5	50	15.0	18.5	11000	130

13269000 SNAKE RIVER AT WEISER, IDAHO--Continued

DATE	NITRATE (N) (MG/L)	NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS. HYDRO-LYZABLE PHOS-PHORUS (P) (MG/L)[1]	TOTAL PHOS-PHORUS (P) (MG/L)	FIELD DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.												
21...	.38	.000	.02	.02	.42	.070	.060	.080	9.7	92	4.7	3.5
NOV.												
18...	.29	.000	.54	.03	.86	.100	.100	.100	12.1	107	3.6	2.0
DEC.												
16...	.34	.010	.01	.04	.40	.070	.070	.240	11.8	97	2.7	2.5
JAN.												
20...	.25	.070	.07	.03	.42	.020	.020	.270	11.2	94	2.9	3.0
FEB.												
24...	.60	.020	.03	.13	.78	.100	.100	.100	11.6	98	3.0	1.5
MAR.												
24...	.60	.000	.87	.20	1.7	.100	.100	.300	10.8	98	2.5	1.0
APR.												
21...	.30	.000	.10	.22	.62	.050	.060	.150	10.8	104	3.6	3.5
MAY												
19...	.40	.000	.11	.25	.76	.090	.120	.300	10.2	104	1.3	3.0
JUNE												
23...	.08	.000	.10	.31	.49	.010	.010	.050	10.6	121	4.7	3.0
JULY												
28...	.48	.000	.16	.21	.85	.070	.070	.140	10.0	130	4.0	3.0
AUG.												
25...	.61	.000	.10	.40	1.1	.030	.080	.130	9.0	109	4.6	--
SEP.												
22...	.73	.000	.09	.29	1.1	.020	.060	.150	10.8	115	1.2	--

1 Includes dissolved orthophosphorus.

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)
OCT.										
21...	0	30	0	1	4	0	0	0	2	0
JAN.										
20...	600	360	0	1	0	2	0	10	3	0
APR.										
21...	500	90	50	--	7	0	1	0	0	10
JULY										
28...	--	10	--	1	--	2	0	0	--	3
AUG.										
25...	--	20	--	--	--	5	0	0	--	--
SEP.										
22...	--	10	--	--	--	1	0	10	--	--

DATE	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
OCT.									
21...	0	0	21	0	0	0	--	0	.6
JAN.									
20...	0	0	8.0	1	0	0	0	80	<.5
APR.									
21...	0	100	2.3	--	0	0	4	50	<.5
JULY									
28...	0	--	9.8	--	--	--	--	--	.0
AUG.									
25...	--	--	--	--	--	--	--	--	.2
SEP.									
22...	--	--	--	--	--	--	--	--	.1

DATE	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL STRON-TIUM (SR) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL BORON (B) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
21...	160	20	280	1	<10	2	<10	<10	<1	100	.1
JAN.											
20...	6600	180	160	1	10	<1	90	--	--	100	.5
APR.											
21...	760	50	160	--	10	2	10	--	--	50	.1
JULY											
28...	160	--	--	1	<10	2	10	8	<1	--	--

13269000 SNAKE RIVER AT WEISER, IDAHO--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
1	14.5	16.0	8.5	9.5	5.5	6.0	3.0	3.0	5.0	5.0	---	---
2	14.5	16.5	8.5	9.0	5.0	5.5	2.0	2.0	5.0	5.5	---	---
3	14.0	15.5	8.0	9.0	5.5	5.0	1.0	1.0	5.0	5.0	---	---
4	14.0	15.5	7.5	8.0	5.0	5.5	0	0	4.0	4.5	---	---
5	14.0	15.0	7.0	7.5	5.0	5.5	0	0	4.0	4.0	---	---
6	13.0	13.5	7.5	8.0	5.5	6.0	0	0	3.5	4.0	---	---
7	11.0	12.0	8.0	9.0	6.5	7.0	1.0	1.5	3.0	4.0	---	---
8	10.5	11.5	8.5	9.0	6.5	7.0	2.0	2.0	3.5	4.0	---	---
9	11.0	12.0	8.5	9.0	6.0	6.5	2.0	2.5	3.5	4.0	---	---
10	11.0	12.5	8.0	9.0	5.5	6.0	3.0	3.5	4.0	5.0	---	---
11	12.0	13.5	8.5	9.5	5.5	5.5	3.5	3.5	5.0	6.0	---	---
12	12.5	13.5	8.0	8.5	4.5	5.0	3.0	3.0	---	---	---	---
13	12.0	13.0	8.0	8.5	4.0	4.5	2.0	2.5	---	---	---	---
14	11.0	12.0	7.0	7.5	4.0	4.5	2.0	2.5	---	---	---	---
15	10.5	11.5	7.0	7.5	4.0	4.0	3.0	3.0	---	---	---	---
16	10.0	11.0	7.0	7.0	4.0	4.5	3.0	3.5	---	---	---	---
17	10.0	11.0	7.0	7.5	4.0	4.0	3.5	3.5	---	---	---	---
18	10.0	11.0	7.0	7.5	3.5	4.0	3.5	4.0	---	---	---	---
19	10.0	11.0	7.5	8.0	4.0	4.0	4.0	4.5	---	---	---	---
20	11.0	11.0	7.5	7.5	3.0	3.5	4.5	5.0	---	---	---	---
21	10.0	10.5	7.0	7.0	3.0	3.5	4.5	4.5	---	---	---	---
22	10.0	10.5	6.0	6.0	3.0	3.0	4.0	4.0	---	---	---	---
23	9.5	10.0	5.5	6.0	2.0	2.5	4.0	4.0	---	---	---	---
24	9.5	9.5	5.5	6.0	2.5	2.5	3.5	4.0	---	---	---	---
25	9.0	9.0	6.5	7.0	2.0	2.0	4.0	4.5	---	---	---	---
26	8.0	9.0	7.0	7.0	2.0	2.0	4.5	5.5	---	---	---	---
27	8.0	8.0	6.5	6.5	2.0	2.0	5.0	5.5	---	---	---	---
28	7.5	8.0	6.5	7.0	2.0	2.5	4.5	5.0	---	---	---	---
29	7.5	8.5	6.0	6.0	2.5	3.0	5.0	5.0	---	---	---	---
30	7.5	8.5	6.0	6.0	3.0	3.5	5.0	5.0	---	---	---	---
31	8.0	9.0	---	---	3.5	4.0	4.5	5.0	---	---	---	---
MONTH	14.5	8.0	8.5	6.0	6.5	2.0	5.0	0	---	---	---	---

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

13290200 SNAKE RIVER BELOW PINE CREEK, AT OXBOW, OREG.

LOCATION.--Lat 44°58'40", long 116°51'25", in NW¼NW¼ sec.9, T.7 S., R.48 E., Adams County, Idaho, temperature recorder on right bank, at Oxbow, 0.1 mile upstream from Hansaker Creek, 0.1 mile north of Oxbow school, 0.3 mile downstream from Pine Creek, 3.2 miles south of Homestead, and at mile 269.65.
DRAINAGE AREA.--73,150 sq mi, approximately.
PERIOD OF RECORD.--Water temperatures: May 1956 to September 1971.
EXTREMES,--1970-71:
Water temperatures: Maximum, 23.0° C on several days during August; minimum, 1.5° C on several days during January.
Period of record:
Water temperatures (1956-71): Maximum (1956-62, 1963-71), 27° C July 25, 1956; minimum, freezing point on several days during January 1957.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

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

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

13290450 SNAKE RIVER AT HELLS CANYON DAM, IDAHO-OREGON STATE LINE

LOCATION.--Lat 45°15'05", long 116°41'50", in SE¼SE¼ sec.33, T.3 S., R.49 E. (Willamette merdian, unsurveyed), Wallowa County, Wallowa National Forest, on left bank 0.2 mile upstream from Hells Canyon Creek, 0.4 mile downstream from Deep Creek, 0.6 mile downstream from Hells Canyon Dam, 15.5 miles northeast of Homestead, Oreg., and at mile 247.0.

DRAINAGE AREA.--73,300 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	FIELD BICAR-BONATE (HCO3) (MG/L)	FIELD CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT.												
22...	19390	--	38	17	--	--	196	0	62	21	.6	317
NOV.												
19...	29200	25	--	--	--	--	210	0	--	22	--	312
DEC.												
17...	30000	--	--	--	--	--	213	0	--	--	--	332
JAN.												
21...	48400	28	37	16	--	--	190	1	42	20	.7	300
FEB.												
25...	50000	--	--	--	--	--	143	0	--	--	--	214
MAR.												
25...	48100	--	--	--	--	--	134	0	--	--	--	224
APR.												
22...	57700	--	29	10	--	--	126	0	27	12	.5	182
MAY												
20...	52700	--	--	--	--	--	115	0	--	--	--	186
JUNE												
24...	40700	--	--	--	--	--	107	7	--	--	--	200
JULY												
29...	11200	--	24	8.4	20	2.6	108	1	27	7.9	.4	--
AUG.												
26...	11200	--	28	9.4	23	3.0	121	0	30	12	.6	--
SEP.												
23...	17600	--	33	14	34	4.4	173	0	52	12	.5	--

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	FIELD SPECI-FIC COND-UCTANCE (MICRO-MHOS)	FIELD PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	TEMP-ERATURE (DEG C)	AIR TEMP-ERATURE (DEG C)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.												
22...	16700	160	--	--	498	7.5	5	1	14.0	9.5	8	0
NOV.												
19...	24600	--	--	--	515	7.7	--	--	9.5	7.5	6	0
DEC.												
17...	26900	--	--	--	497	8.3	--	--	6.0	.5	20	1
JAN.												
21...	39200	160	2	--	448	8.3	0	6	2.5	3.0	44	--
FEB.												
25...	28900	--	--	--	345	7.6	--	--	4.0	2.0	20	--
MAR.												
25...	29100	--	--	--	334	7.4	--	--	5.5	8.5	20	1
APR.												
22...	28400	110	0	--	295	8.0	10	20	10.0	12.0	96	40
MAY												
20...	28700	--	--	--	266	8.1	--	--	14.5	14.0	96	4
JUNE												
24...	22000	--	--	--	279	8.8	--	--	17.0	18.5	2	0
JULY												
29...	--	94	4	.9	269	8.3	10	1	20.5	32.0	8500	0
AUG.												
26...	--	110	0	1.0	297	8.2	10	1	21.0	19.0	1200	1
SEP.												
23...	--	140	0	1.3	408	7.9	5	20	16.5	12.0	46	0

13290450 SNAKE RIVER AT HELLS CANYON DAM, IDAHO-OREGON STATE LINE--Continued

DATE	NITRATE (N) (MG/L)	NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS. HYDRO-LYZABLE PHOS-PHORUS (P) (MG/L)[1]	TOTAL PHOS-PHORUS (P) (MG/L)	FIELD DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.												
22...	.25	.000	.02	.02	.29	.050	.070	.070	7.0	71	1.3	1.0
NOV.												
19...	.09	.000	.02	.02	.13	.100	.100	.110	8.0	74	1.8	1.0
DEC.												
17...	.34	.040	.03	.03	.44	.070	.080	.240	11.4	96	1.1	2.0
JAN.												
21...	.20	.010	.16	.07	.44	.070	.070	.090	16.6	127	4.3	.0
FEB.												
25...	.80	.030	.15	.02	1.0	.030	.100	.160	16.1	131	3.5	3.0
MAR.												
25...	.80	.010	1.1	.52	2.4	.100	.070	.100	15.4	128	2.0	4.0
APR.												
22...	.40	.000	.57	.22	1.2	.090	.090	.180	13.5	122	4.4	1.0
MAY												
20...	.40	.000	.19	.18	.77	.080	.090	.150	12.3	126	1.4	6.0
JUNE												
24...	.16	.000	.10	.26	.52	.020	.030	.050	11.8	128	3.1	4.0
JULY												
29...	.17	.000	.21	.10	.48	.040	.050	.060	7.4	85	1.2	3.0
AUG.												
26...	.20	.000	.10	.29	.59	.010	.050	.070	7.3	86	1.0	--
SEP.												
23...	.60	.000	.13	.15	.88	.070	.130	.130	5.2	55	1.3	--

1 Includes dissolved orthophosphorus.

DATE	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
JULY								
29...	10	3	0	0	0	0	4.5	.1
AUG.								
26...	20	1	0	40	--	--	--	.0
SEP.								
23...	10	1	4	40	--	--	--	.2

13292200 SALMON RIVER NEAR OBSIDIAN, IDAHO

LOCATION.--Lat 43°53'03", long 114°45'47", in NE¼NE¼NE¼ sec.1, T.6 N., R.13 E. (unsurveyed), Blaine County, at Highway 93 bridge crossing, 0.3 mile upstream from Frenchman Creek, and 14 miles south of Obsidian.

DRAINAGE AREA.--17.5 sq mi.

PERIOD OF RECORD.--Chemical analyses: June to September 1971.
Sediment records: June to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
JUNE									
08...	1545	121	10	17	1.7	1.7	.3	64	0
JULY									
21...	1230	52	9.9	20	2.3	1.6	.2	75	0
AUG.									
09...	1320	23	11	24	2.7	1.7	.4	98	0

DATE	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
JUNE									
08...	1.8	.4	.0	.06	.15	.020	.06	65	.09
JULY									
21...	2.5	.6	.2	.00	.050	.010	.03	74	.10
AUG.									
09...	5.0	.2	.4	.01	.050	.010	.03	94	.13

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
JUNE								
08...	21.2	49	0	.1	7	107	7.6	10.0
JULY								
21...	10.5	59	0	.1	6	115	7.1	7.0
AUG.								
09...	5.84	71	0	.1	5	152	8.0	11.0

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
JUNE					
08...	1545	10.0	121	50	16
JULY					
21...	1230	7.0	52	3	.42
AUG.					
09...	1320	11.0	23	3	.19

13292400 BEAVER CREEK NEAR STANLEY, IDAHO

LOCATION.--Lat 43°55'10", long 114°48'48", in NE¼NE¼SE¼ sec.21, T.7 N., R.14 E., Blaine County, at Highway 93 bridge crossing, about 0.5 mile upstream from mouth, 11 miles south of Obsidian, and 24 miles southeast of Stanley.

DRAINAGE AREA.--13.9 sq mi.

PERIOD OF RECORD.--Chemical analyses: May to September 1971.
Sediment records: May to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
MAY									
24...	1130	31	8.0	9.0	.5	2.2	.2	36	0
JULY									
21...	1350	53	5.8	6.8	.3	1.1	.2	27	0
SEP.									
03...	1255	3.0	8.9	12	.4	2.0	.6	47	0

DATE	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
MAY									
24...	3.0	.8	.1	.02	.040	.010	.03	42	.06
JULY									
21...	1.0	.4	.2	.00	.040	.010	.03	29	.04
SEP.									
03...	4.3	.4	.4	.00	.040	.000	.00	52	.07

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
MAY								
24...	3.55	25	0	.2	16	61	8.5	4.0
JULY								
21...	4.15	18	0	.1	11	40	7.2	10.5
SEP.								
03...	.42	32	0	.2	12	78	7.7	10.0

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
MAY					
24...	1130	4.0	31	1	.08
JULY					
21...	1350	10.5	53	2	.29
SEP.					
03...	1255	10.0	3.0	1	.01

13293200 CHAMPION CREEK NEAR OBSIDIAN, IDAHO

LOCATION.--Lat 44°01'39", long 114°49'54", in NW¼NW¼SW¼ sec.16, T.8 N., R.14 E., Custer County, at Highway 93 bridge crossing, 0.4 mile upstream from mouth, and 4.0 miles south of Obsidian.

DRAINAGE AREA.--18.4 sq mi.

PERIOD OF RECORD.--Chemical analyses: June to September 1971.
Sediment records: June to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
JUNE									
09...	1330	32	22	25	1.1	2.1	.7	85	0
JULY									
21...	1545	9.3	24	33	1.6	2.0	.6	118	0
AUG.									
09...	1445	3.7	27	39	1.8	2.3	1.0	140	0

DATE	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
JUNE									
09...	3.3	.8	.0	.03	.10	.030	.09	97	.13
JULY									
21...	6.5	.0	.2	.02	.070	.020	.06	126	.17
AUG.									
09...	6.0	.2	.5	.01	.080	.040	.12	147	.20

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
JUNE								
09...	8.38	67	0	.1	6	140	7.7	6.5
JULY								
21...	3.16	89	0	.1	5	178	7.8	16.5
AUG.								
09...	1.47	100	0	.1	5	218	8.1	21.0

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
JUNE					
09...	1330	6.5	32	57	4.9
JULY					
21...	1545	16.5	9.3	6	.15
AUG.					
09...	1445	21.0	3.7	9	.09

13293400 FOURTH OF JULY CREEK NEAR OBSIDIAN, IDAHO

LOCATION.--Lat 44°01'48", long 114°49'54", in SW¼SW¼SW¼ sec.9, T.8 N., R.14 E., Custer County, at Highway 93 bridge crossing, 0.2 mile upstream from mouth, and 3.4 miles south of Obsidian.

DRAINAGE AREA.--18.4 sq mi.

PERIOD OF RECORD.--Chemical analyses: June to September 1971.
Sediment records: June to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
JUNE									
09...	1500	114	14	14	1.1	2.3	.5	54	0
JULY									
21...	1745	34	14	19	1.3	2.1	.2	63	0
AUG.									
09...	1630	20	17	24	1.4	2.4	.6	86	0

DATE	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
JUNE									
09...	4.0	.9	.0	.02	.080	.010	.03	63	.09
JULY									
21...	6.3	.5	.1	.00	.060	.020	.06	75	.10
AUG.									
09...	9.0	.3	.4	.01	.060	.020	.06	98	.13

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
JUNE								
09...	19.4	39	0	.2	11	88	7.2	5.8
JULY								
21...	6.97	53	1	.1	8	106	7.1	13.5
AUG.								
09...	5.29	66	0	.1	7	148	7.9	14.0

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
JUNE					
09...	1500	6.0	114	34	10
JULY					
21...	1745	13.5	34	2	.18
AUG.					
09...	1630	14.0	20	3	.16

13295000 VALLEY CREEK AT STANLEY, IDAHO

LOCATION.--Lat 44°13'21", long 114°55'49", in SE¼NW¼SW¼ sec.3, T.10 N., R.13 E., Custer County, on left bank at mile 0.2, 0.5 mile northeast of Stanley, and 0.8 mile southwest of Lower Stanley.

DRAINAGE AREA.--147 sq mi. Mean altitude, 7,400 ft.

PERIOD OF RECORD.--Chemical analyses: May to September 1971.
Sediment records: April to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
MAY												
24...	1700	561	11	6.8	.7	2.9	.3	33	0	5.5	.6	.5
JUNE												
21...	1625	1110	8.1	5.1	.3	1.7	1.1	25	0	5.3	.2	.2
JULY												
19...	1335	522	8.2	7.1	.5	2.1	.3	24	0	1.3	3.5	.5
AUG.												
30...	1045	138	12	8.1	.4	3.3	.4	37	0	1.3	.3	.7

DATE	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)
MAY												
24...	.43	.050	.020	.06	50	.07	75.7	20	0	.3	24	60
JUNE												
21...	.00	.020	.010	.03	35	.05	105	14	0	.2	19	37
JULY												
19...	.02	.050	.010	.03	35	.05	126	20	0	.2	18	43
AUG.												
30...	.02	.040	.030	.09	46	.06	17.1	22	0	.3	24	65

DATE	PH (UNITS)	TEMP-ERATURE (DEG C)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
MAY												
24...	7.3	9.0	500	100	20	310	0	0	5	4	1	0
JUNE												
21...	7.0	13.5	500	260	85	10	17	1	0	10	7	10
JULY												
19...	7.7	13.5	400	40	10	170	7	1	3	5	0	0
AUG.												
30...	7.2	12.0	500	20	0	180	9	0	4	2	0	30

DATE	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
MAY											
24...	0	--	0	0	.3	0	0	0	1	0	.1
JUNE											
21...	0	0	0	0	.0	0	0	0	5	0	.2
JULY											
19...	0	--	0	0	.4	0	0	0	3	--	.1
AUG.											
30...	0	2	0	0	.2	0	0	4	1	20	.0

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
APR.					
28...	1330	7.0	215	7	4.1
MAY					
24...	1700	9.0	561	4	6.1
JUNE					
21...	1625	13.5	1110	3	9.0
JULY					
19...	1325	13.5	522	2	2.2
AUG.					
30...	1045	12.0	138	8	3.0

13295650 BASIN CREEK NEAR STANLEY, IDAHO

LOCATION.--Lat 44°15'47", long 114°49'03", in NW¼SE¼SE¼ sec.21, T.11 N., R.14 E., Custer County, at Highway 93 bridge crossing, 0.1 mile upstream from mouth, and 6.7 miles northeast of Stanley.

DRAINAGE AREA.--51 sq mi.

PERIOD OF RECORD.--Chemical analyses: June to September 1971.
Sediment records: June to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
JUNE									
10...	1130	636	15	6.4	.8	3.1	.4	35	0
JULY									
19...	1645	92	14	9.1	1.1	3.4	.5	50	0
AUG.									
10...	1000	48	14	11	1.1	3.7	.6	54	0

DATE	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
JUNE									
10...	1.3	.8	.0	.06	.060	.020	.06	45	.06
JULY									
19...	.5	.5	.2	.26	.060	.020	.06	55	.07
AUG.									
10...	1.3	.2	.4	.05	.050	.010	.03	59	.08

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
JUNE								
10...	77.3	19	0	.3	25	60	7.6	4.5
JULY								
19...	13.8	27	0	.3	21	67	7.4	14.5
AUG.								
10...	7.65	32	0	.3	20	85	7.7	8.0

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
JUNE					
10...	1130	4.5	636	53	91
JULY					
19...	1645	14.5	92	2	.50
AUG.					
10...	1000	8.0	48	4	.52

13296000 YANKEE FORK SALMON RIVER NEAR CLAYTON, IDAHO

LOCATION.--Lat 44°17'15", long 114°43'11", in NE¼SW¼ sec.17, T.11 N., R.15 E. (unsurveyed), Custer County, at Sunbeam-Custer road bridge crossing, 1.75 miles north of Sunbeam, 1.9 miles upstream from mouth, and 12 miles northeast of Stanley.

DRAINAGE AREA.--191 sq mi.

PERIOD OF RECORD.--Chemical analyses: May to September 1971.
Sediment records: May to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
MAY									
25...	0920	889	17	8.0	1.0	3.8	.5	40	0
JUNE									
22...	0935	2710	17	4.7	.4	3.0	.4	25	0
AUG.									
30...	1215	119	20	9.5	.8	4.5	.8	45	0

DATE	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
MAY									
25...	4.3	.2	.1	.00	.080	.040	.12	55	.07
JUNE									
22...	2.5	.1	.0	.00	.10	.040	.12	41	.06
AUG.									
30...	3.3	.1	.4	.01	.050	.030	.09	62	.08

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
MAY								
25...	132	24	0	.3	25	67	7.2	3.5
JUNE								
22...	300	13	0	.4	32	43	7.1	4.5
AUG.								
30...	19.9	27	0	.4	26	79	7.6	12.5

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
MAY					
25...	0920	3.5	889	12	2.8
JUNE					
22...	0935	4.5	2710	45	329
AUG.					
30...	1215	12.5	119	2	.64

13296500 SALMON RIVER BELOW YANKEE FORK, NEAR CLAYTON, IDAHO

LOCATION.--Lat 44°16'06", long 114°43'55", in sec.20, T.11 N., R.15 E. (unsurveyed), Custer County, Challis National Forest, on left bank 700 ft downstream from Yankee Fork, 18 miles upstream from Clayton, and at mile 366.9.

DRAINAGE AREA.--802 sq mi. Mean altitude, 7,790 ft.

PERIOD OF RECORD.--Chemical analyses: May to September 1971.
Sediment records: April to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
MAY												
25...	1135	2920	15	10	1.0	3.6	.3	45	0	5.0	.5	.2
JUNE												
22...	1215	6440	12	6.8	.7	2.4	.4	36	0	3.5	.1	.2
JULY												
23...	1335	2410	13	9.5	.8	2.7	.4	38	0	2.0	.6	.3
SEP.												
03...	1030	706	16	15	.9	4.4	.6	62	0	3.8	.4	.7

DATE	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)
MAY												
25...	.00	.060	.040	.12	58	.08	457	29	0	.3	21	72
JUNE												
22...	.00	.050	.020	.06	45	.06	782	20	0	.2	20	52
JULY												
23...	.01	.050	.010	.03	48	.07	312	27	0	.2	18	61
SEP.												
03...	.02	.040	.010	.03	73	.10	139	41	0	.3	19	104

DATE	PH (UNITS)	TEMP-ERATURE (DEG C)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
MAY												
25...	7.8	4.0	300	120	20	250	0	0	0	6	0	10
JUNE												
22...	7.9	6.5	400	60	440	10	15	0	2	2	4	0
JULY												
23...	7.7	12.5	300	20	0	10	9	0	3	2	0	0
SEP.												
03...	7.4	10.0	200	40	60	130	12	0	2	1	0	10

DATE	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
MAY											
25...	1	--	0	0	.9	0	0	10	3	10	.2
JUNE											
22...	0	10	0	0	.0	0	0	0	0	0	.1
JULY											
23...	1	0	0	50	.0	0	0	0	0	10	.1
SEP.											
03...	0	4	0	0	.6	0	0	5	2	20	.1

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	WATER TEM-PERA-TURE (°C)	DIS-CHARGE (CFS)	CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APR.					
28...	1600	6.0	719	5	1.2
MAY					
25...	1135	4.0	2920	17	134
JUNE					
22...	1215	6.5	6440	32	556
JULY					
23...	1335	12.5	2410	7	45
SEP.					
03...	1030	10.0	706	3	5.7

13297000 WARM SPRINGS CREEK AT ROBINSON BAR, NEAR CLAYTON, IDAHO

LOCATION.--Lat 44°14'50", long 114°40'11", in SW¼ sec.27, T.11 N., R.15 E. (unsurveyed), Custer County, 160 ft upstream from Robinson Bar bridge, 0.6 mile upstream from mouth, and 13.7 miles west of Clayton.

DRAINAGE AREA.--78 sq mi.

PERIOD OF RECORD.--Chemical analyses: May to September 1971.
Sediment records: May to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
MAY									
25...	1340	175	14	18	1.1	2.2	.8	66	0
JUNE									
22...	1320	560	11	11	.4	1.7	.4	41	0
SEP.									
03...	0940	103	15	25	.8	1.9	1.0	88	0

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
MAY								
25...	35.4	49	0	.1	9	106	8.0	5.0
JUNE								
22...	76.6	29	0	.1	11	69	7.3	6.0
SEP.								
03...	25.6	66	0	.1	6	145	7.8	7.0

DATE	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
MAY									
25...	5.8	.8	.0	.00	.060	.030	.09	75	.10
JUNE									
22...	6.8	.0	.0	.03	.030	.010	.03	52	.07
SEP.									
03...	4.0	.7	.4	.01	.030	.000	.00	92	.13

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
MAY					
25...	1340	5.0	175	16	7.5
JUNE					
22...	1320	6.0	560	34	51
SEP.					
03...	0940	7.0	103	2	.56

13297100 PEACH CREEK NEAR CLAYTON, IDAHO

LOCATION.--Lat 44°15'50", long 114°38'50", in SE¼SW¼ sec.24 (unsurveyed), T.11 N., R.15 E., Custer County, at Highway 93 bridge, 0.1 mile upstream from mouth, and 12 miles west of Clayton.

DRAINAGE AREA.--8.3 sq mi.

PERIOD OF RECORD.--Chemical analyses: May to September 1971.
Sediment records: May to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
MAY									
25...	1510	21	21	32	3.0	2.5	.7	113	0
JULY									
23...	1235	10	21	35	3.2	2.3	.7	126	0
SEP.									
03...	0910	7.2	20	40	3.6	2.2	.8	141	0

DATE	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
MAY									
25...	14	.4	.1	.03	.070	.050	.15	129	.18
JULY									
23...	6.5	1.0	.1	.01	.050	.020	.06	132	.18
SEP.									
03...	8.0	.2	.3	.02	.050	.030	.09	145	.20

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
MAY								
25...	7.31	92	0	.1	6	186	7.8	6.5
JULY								
23...	3.74	100	0	.1	5	193	7.7	9.5
SEP.								
03...	2.82	110	0	.1	4	234	8.0	8.0

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
MAY					
25...	1510	6.5	21	7	.40
JULY					
23...	1235	9.5	10	1	.03
SEP.					
03...	0910	8.0	7.2	1	.02

13297250 SLATE CREEK NEAR CLAYTON, IDAHO

LOCATION.--Lat 44°15'19", long 114°33'48", in SW¼SW¼NW¼ sec.27, T.11 N., R.16 E., Custer County, at bridge crossing at mouth and 8.1 miles west of Clayton.

DRAINAGE AREA.--31.6 sq mi.

PERIOD OF RECORD.--Chemical analyses: June to September 1971.
Sediment records: June to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
JUNE									
10...	1515	76	15	47	3.3	4.4	1.5	142	0
JULY									
02...	1100	81	14	43	2.9	3.2	1.4	130	0
AUG.									
10...	1130	41	14	45	3.2	3.9	1.5	147	0

DATE	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
JUNE									
10...	28	1.2	.3	.09	.30	.050	.15	171	.23
JULY									
02...	21	.7	.4	.05	.38	.040	.12	151	.21
AUG.									
10...	23	.5	.7	.00	.070	.030	.09	164	.22

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
JUNE								
10...	35.1	130	14	.2	7	277	7.9	9.5
JULY								
02...	33.0	120	13	.1	5	230	7.7	6.8
AUG.								
10...	18.2	130	5	.2	6	268	8.1	8.0

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
JUNE					
10...	1515	9.5	76	314	64
14...	1730	8.0	92	2100	523
JULY					
02...	1100	7.0	81	582	127
AUG.					
10...	1130	8.0	41	5	.55

13297300 HOLMAN CREEK NEAR CLAYTON, IDAHO

LOCATION.--Lat 44°14'52", long 114°31'43", in SE¼SW¼SW¼ sec.25, T.11 N., R.16 E., Custer County, at Highway 93 bridge crossing and 6.5 miles east of Clayton.

DRAINAGE AREA.--6.1 sq mi.

PERIOD OF RECORD.--Chemical analyses: May to September 1971.
Sediment records: May to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
MAY									
25...	1535	4.0	27	29	5.2	11	.7	134	0
JULY									
22...	1600	1.2	27	30	5.2	12	.7	145	0
AUG.									
16...	1400	1.1	25	34	5.8	12	.9	160	0
SEP.									
02...	0805	7.3	26	22	9.1	6.8	2.1	130	0

DATE	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
MAY									
25...	19	1.9	.2	.06	.17	.080	.25	160	.22
JULY									
22...	9.0	1.3	.2	.00	.10	.080	.25	157	.21
AUG.									
16...	11	2.4	.5	.01	.17	.060	.18	171	.23
SEP.									
02...	8.3	.9	.4	.01	.070	.040	.12	140	.19

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
MAY								
25...	1.75	94	0	.5	20	227	7.7	8.0
JULY								
22...	--	96	0	.5	21	224	7.9	12.0
AUG.								
16...	.51	110	0	.5	19	259	8.0	9.5
SEP.								
02...	2.78	92	0	.3	13	214	7.7	11.0

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
MAY					
25...	1535	8.0	4.0	73	.79
JULY					
22...	1600	12.0	1.2	7	.02
AUG.					
16...	1400	9.5	1.1	12	.04

13297310 THOMPSON CREEK ABOVE PAT HUGHES CREEK, NEAR CLAYTON, IDAHO

LOCATION.--Lat 44°17'26", long 114°33'25", in SW¼SE¼SE¼ sec.10, T.11 N., R.16 E., Custer County, 0.6 mile upstream from Pat Hughes Creek and 8.2 miles west of Clayton.

DRAINAGE AREA.--21.5 sq mi.

PERIOD OF RECORD.--Chemical analyses: June to September 1971.
Sediment records: February to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
JUNE									
11...	1415	141	20	8.4	1.1	3.8	.5	42	0
JULY									
24...	1000	23	18	10	1.6	3.6	.6	46	0
AUG.									
10...	1400	9.8	20	13	2.3	4.4	.7	59	0

DATE	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
JUNE									
11...	2.3	.7	.0	.02	.10	.040	.12	58	.08
JULY									
24...	4.8	.2	.1	.00	.070	.030	.09	62	.08
AUG.									
10...	8.3	.6	.3	.07	.070	.020	.06	79	.11

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
JUNE								
11...	22.1	25	0	.3	24	69	7.5	6.5
JULY								
24...	3.85	32	0	.3	20	77	7.4	8.0
AUG.								
10...	2.09	42	0	.3	18	104	7.6	13.0

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
FEB.					
24...	1100	1.0	15	5	.20
JUNE					
11...	1415	6.5	141	57	21
JULY					
24...	1000	8.0	23	7	.43
AUG.					
10...	1400	13.0	9.8	3	.08

13297320 PAT HUGHES CREEK NEAR CLAYTON, IDAHO

LOCATION.--Lat 44°17'18", long 114°32'49", in NW¼NE¼NW¼ sec.14, T.11 N., R.16 E., Custer County, 0.1 mile upstream from mouth and 7.6 miles west of Clayton.

DRAINAGE AREA.--2.3 sq mi.

PERIOD OF RECORD.--Chemical analyses: June to September 1971.
Sediment records: February to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
JUNE									
11...	1230	4.3	24	12	2.0	10	.6	67	0
JULY									
24...	1245	1.5	20	20	2.9	25	.9	102	0
AUG.									
10...	1450	1.3	21	19	2.0	30	1.0	95	0

DATE	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
JUNE									
11...	4.5	1.1	.0	.03	.12	.040	.12	87	.12
JULY									
24...	38	.8	.4	.14	.040	.020	.06	159	.22
AUG.									
10...	49	1.5	.8	.47	.17	.030	.09	173	.24

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
JUNE								
11...	1.01	38	0	.7	36	118	7.8	6.5
JULY								
24...	.64	62	0	1.4	46	224	7.6	11.0
AUG.								
10...	.61	56	0	1.8	53	254	7.6	16.0

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
FEB.					
24...	1030	1.0	1.5	4	.02
JUNE					
11...	1230	6.5	4.3	69	.80
JULY					
24...	1245	11.0	1.5	7	.03
AUG.					
10...	1450	16.0	1.3	128	.45

13297330 THOMPSON CREEK NEAR CLAYTON, IDAHO

LOCATION.--Lat 44°15'36", long 114°30'50", in NE¼NE¼NE¼ sec.25, T.11 N., R.16 E., Custer County, 0.8 mile upstream from mouth and 5.7 miles west of Clayton.

DRAINAGE AREA.--6.1 sq mi.

PERIOD OF RECORD.--Chemical analyses: May to September 1971.
Sediment records: May to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
MAY									
26...	1210	99	19	14	2.6	4.8	1.5	64	0
JUNE									
22...	1505	34	19	8.2	1.5	3.6	.5	41	0
SEP.									
02...	0900	7.8	18	22	4.9	7.8	1.0	95	0

DATE	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
MAY									
26...	12	.3	.1	.01	.10	.040	.12	86	.12
JUNE									
22...	3.8	.5	.0	.01	.12	.050	.15	57	.08
SEP.									
02...	23	.7	.4	.07	.050	.010	.03	125	.17

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
MAY								
26...	23.0	46	0	.3	18	108	7.4	8.0
JUNE								
22...	5.33	27	0	.3	22	67	7.4	4.5
SEP.								
02...	2.65	75	0	.4	18	189	7.6	9.5

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
MAY					
26...	1210	8.0	99	93	24
JUNE					
22...	1505	4.5	34	103	9.7
SEP.					
02...	0900	9.5	7.8	1	.02

13297340 Squaw Creek above Bruno Creek, near Clayton, Idaho

LOCATION.--Lat 44°18'05", long 114°28'36", in SW¼NE¼NE¼ sec.8, T.11 N., R.17 E., Custer County, at bridge crossing, 0.3 mile upstream from Bruno Creek, and 4.8 miles northwest of Clayton.

DRAINAGE AREA.--65 sq mi.

PERIOD OF RECORD.--Chemical analyses: June to September 1971.
Sediment records: June to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
JUNE									
11...	1745	368	27	8.2	2.8	4.0	1.2	56	0
JULY									
24...	1730	41	28	12	5.2	4.9	1.2	75	0
AUG.									
11...	0950	23	28	14	6.3	5.6	1.6	96	0

DATE	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
JUNE									
11...	.3	1.0	.0	.02	.13	.070	.21	72	.10
JULY									
24...	1.8	.8	.2	.10	.10	.070	.21	92	.13
AUG.									
11...	8.0	.5	.5	.01	.10	.070	.21	112	.15

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
JUNE								
11...	71.5	32	0	.3	21	78	7.3	7.0
JULY								
24...	10.2	51	0	.3	17	112	7.4	16.5
AUG.								
11...	6.96	61	0	.3	16	145	7.8	8.5

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
JUNE					
11...	1745	7.0	368	100	99
JULY					
24...	1730	16.5	41	3	.33
AUG.					
11...	0950	8.5	23	5	.31

13297350 BRUNO CREEK NEAR CLAYTON, IDAHO

LOCATION.--Lat 44°17'56", long 114°28'50", in SE¼SW¼NE¼ sec.8, T.11 N., R.17 E., Custer County, on left bank 0.3 mile upstream from mouth and 4.8 miles northwest of Clayton.

DRAINAGE AREA.--6.0 sq mi.

PERIOD OF RECORD.--Chemical analyses: May to September 1971.
Sediment records: April to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
MAY												
26...	0910	11	22	19	4.2	5.1	.6	83	0	37	.9	.1
JUNE												
22...	1625	19	23	15	3.4	4.3	.5	68	0	6.3	.8	.0
JULY												
23...	1135	2.9	20	30	8.9	4.8	.8	137	0	18	.8	.2
SEP.												
02...	0735	.95	18	40	13	4.9	.9	173	0	32	1.1	.4

DATE	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)
MAY												
26...	.05	.10	.060	.18	105	.14	3.12	65	0	.3	15	148
JUNE												
22...	.00	.070	.050	.15	88	.12	4.59	51	0	.3	15	112
JULY												
23...	.01	.060	.040	.12	151	.21	1.22	110	0	.2	9	221
SEP.												
02...	.06	.070	.060	.18	196	.27	.50	150	12	.2	6	318

DATE	PH (UNITS)	TEMP-ERATURE (DEG C)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
MAY												
26...	7.5	3.5	600	80	10	280	0	0	4	3	1	50
JUNE												
22...	7.6	11.0	500	30	75	80	13	1	0	9	6	30
JULY												
23...	7.3	8.0	200	10	0	110	12	0	4	3	0	30
SEP.												
02...	7.9	2.5	200	0	0	320	9	0	0	1	0	20

DATE	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
MAY											
26...	0	--	1	0	1.8	0	0	10	1	0	.1
JUNE											
22...	0	0	1	0	.8	0	0	3	10	0	.2
JULY											
23...	0	0	1	50	.8	0	0	10	2	0	.0
SEP.											
02...	0	0	0	0	.9	0	0	5	3	30	.0

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
APR.					
29...	1230	5.0	22	4	.24
MAY					
26...	0910	3.5	11	30	89
JUNE					
22...	1625	11.0	19	17	.87
JULY					
23...	1135	8.0	2.9	1	.01
SEP.					
02...	0735	2.5	.95	1	.00

13297360 SQUAW CREEK NEAR CLAYTON, IDAHO

LOCATION.--Lat 44°15'35", long 114°27'27", in NW¼NE¼NE¼ sec.28, T.11 N., R.17 E., Custer County, at bridge crossing 0.9 miles from mouth and 2.8 miles west of Clayton.

DRAINAGE AREA.--77.0 sq mi.

PERIOD OF RECORD.--Chemical analyses: May to September 1971.
Sediment records: May to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
MAY									
26...	1035	215	26	11	4.2	4.8	1.2	68	0
JUNE									
23...	0910	343	24	7.5	2.8	4.9	.9	53	0

DATE	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
MAY									
26...	6.8	1.1	.1	.03	.10	.070	.21	89	.12
JUNE									
23...	2.5	.6	.0	.00	.17	.070	.21	69	.09

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
MAY								
26...	51.7	45	0	.3	18	137	7.5	4.0
JUNE								
23...	63.9	36	0	.4	25	82	7.5	5.0

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
MAY					
26...	1035	4.0	215	60	34
JUNE					
23...	0910	5.0	343	55	50
SEP.					
02...	0805	11.0	7.4	1	.02

13297380 SALMON RIVER ABOVE EAST FORK, NEAR CLAYTON, IDAHO

LOCATION.--Lat 44°15'59", long 114°19'34", in SW¼NE¼SW¼ sec.22, T.11 N., R.18 E., Custer County, at Highway 93 bridge crossing, 0.2 mile upstream from East Fork, and 3.4 miles east of Clayton.

DRAINAGE AREA.--1,200 sq mi.

PERIOD OF RECORD.--Chemical analyses: June to September 1971.
Sediment records: May to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
JUNE												
01...	1310	7590	14	11	1.3	2.9	2.5	50	0	8.0	.3	.2
23...	1015	7600	12	9.0	.9	2.5	.6	45	0	2.5	.4	.1
JULY												
22...	1645	3120	12	13	1.1	2.6	.3	48	0	2.0	1.3	.3
SEP.												
01...	1140	1180	15	19	1.5	4.5	.8	76	0	5.3	.5	.7

DATE	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC CONDUCTANCE (MICRO-MHOS)
JUNE												
01...	.01	.15	.040	.12	65	.09	1330	33	0	.2	15	73
23...	.03	.14	.020	.06	51	.07	1050	26	0	.2	17	68
JULY												
22...	.00	.040	.010	.03	57	.08	480	37	0	.2	13	76
SEP.												
01...	.01	.040	.010	.03	85	.12	271	54	0	.3	15	130

DATE	PH (UNITS)	TEMP-ERATURE (DEG C)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
JUNE												
01...	7.2	6.0	300	120	10	150	0	0	0	5	1	10
23...	7.1	9.0	500	50	180	50	15	0	0	1	7	0
JULY												
22...	8.0	12.0	200	30	10	50	0	0	7	19	3	0
SEP.												
01...	7.6	12.0	200	10	30	140	0	0	0	11	0	20

DATE	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
JUNE											
01...	1	--	0	0	1.6	0	0	20	--	80	.1
23...	0	1	0	0	.9	0	10	2	4	0	.1
JULY											
22...	0	0	0	0	.3	0	0	0	3	0	.1
SEP.											
01...	4	0	0	100	.2	0	0	4	1	20	.1

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
MAY					
06...	1500	5.0	3580	37	358
JUNE					
01...	1310	6.0	7590	49	1004
23...	1015	9.0	7600	109	2236
JULY					
22...	1645	12.0	3120	3	25
SEP.					
01...	1140	12.0	1180	5	15

13297384 SOUTH FORK OF EAST FORK SALMON RIVER ABOVE WEST FORK, NEAR CLAYTON, IDAHO

LOCATION.--Lat 43°55'44", long 114°33'15", in SW¼SE¼SE¼ sec.15, T.7 N., R.16 E. (unsurveyed), Custer County, 100 ft upstream from West Fork and 24 miles southwest of Clayton.

DRAINAGE AREA.--16.5 sq mi.

PERIOD OF RECORD.--Chemical analyses: July to September 1971.
Sediment records: July to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
JULY									
01...	1400	97	4.8	10	.9	1.1	.1	36	0
23...	1210	103	3.8	9.2	.5	.8	.3	32	0
AUG.									
13...	1200	41	4.5	12	.6	1.1	.6	39	0

DATE	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
JULY									
01...	3.8	.3	.1	.02	.050	.010	.03	39	.05
23...	3.5	.4	.1	.01	.040	.010	.03	34	.05
AUG.									
13...	6.3	1.4	.3	.03	.050	.010	.03	46	.06

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
JULY								
01...	10.2	29	0	.1	8	63	7.3	6.8
23...	9.45	25	0	.1	6	54	7.5	7.0
AUG.								
13...	5.09	32	0	.1	7	75	7.5	9.0

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
JULY					
01...	1400	6.8	97	2	.52
23...	1210	7.0	103	2	.56
AUG.					
13...	1200	9.0	41	1	.11

13297388 WEST FORK OF EAST FORK SALMON RIVER ABOVE SOUTH FORK, NEAR CLAYTON, IDAHO

LOCATION.--Lat 43°55'46", long 114°33'18", in SW¼SE¼SE¼ sec.15, T.7 N., R.16 E. (unsurveyed), Custer County, 100 ft upstream from South Fork and 24 miles southwest of Clayton.

DRAINAGE AREA.--9.1 sq mi.

PERIOD OF RECORD.--Chemical analyses: July to September 1971.
Sediment records: July to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
JULY									
01...	1330	56	6.0	17	1.5	1.1	.3	56	0
23...	1105	38	5.2	17	1.3	.9	.1	58	0
AUG.									
13...	1110	8.5	6.4	20	2.0	1.3	.2	74	0

DATE	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
JULY									
01...	1.5	.3	.1	.02	.070	.000	.00	55	.07
23...	4.3	.3	.2	.00	.050	.010	.03	58	.08
AUG.									
13...	9.0	.1	.4	.01	.050	.010	.03	76	.10

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
JULY								
01...	8.32	49	3	.1	5	96	8.1	5.8
23...	5.96	48	0	.1	4	94	7.8	6.5
AUG.								
13...	1.74	58	0	.1	5	128	8.1	16.0

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
JULY					
01...	1100	6.0	56	6	.91
23...	1105	5.8	38	2	21
AUG.					
13...	1110	16.0	8.5	2	.05

13297396 WEST PASS CREEK NEAR CLAYTON, IDAHO

LOCATION.--Lat 43°59'07", long 114°29'15", in NE¼NW¼NW¼ sec.32, T.8 N., R.17 E., Custer County, 0.2 mile upstream from mouth, at bridge crossing 0.6 mile northeast of Bowery guard station, and 19.5 miles south of Clayton.

DRAINAGE AREA.--26.6 sq mi.

PERIOD OF RECORD.--Chemical analyses: May to September 1971.
Sediment records: May to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
MAY									
27...	1015	90	8.1	22	2.1	3.1	.4	82	0
JUNE									
27...	1025	169	6.1	15	1.1	1.9	.4	53	0
SEP.									
02...	1135	16	9.4	26	2.0	6.6	1.0	87	0

DATE	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
MAY									
27...	7.5	1.0	.2	.05	.040	.020	.06	87	.12
JUNE									
27...	6.8	.2	.0	.03	.050	.010	.03	58	.08
SEP.									
02...	22	1.1	.6	.06	.030	.000	.00	112	.15

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
MAY								
27...	21.1	64	0	.2	10	142	8.0	3.5
JUNE								
27...	26.5	42	0	.1	9	97	7.4	4.0
SEP.								
02...	5.05	73	2	.3	16	164	7.8	9.5

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	PENDED SEDI-MENT DIS-CHARGE (T/DAY)
MAY					
27...	1015	3.5	90	26	6.3
JUNE					
27...	1025	4.0	169	42	19
SEP.					
02...	1135	9.5	17	1	.05

13297400 EAST FORK SALMON RIVER BELOW BOWERY GUARD STATION, NEAR CLAYTON, IDAHO

LOCATION.--Lat 44°00'23", long 114°28'48", in NW¼NW¼SE¼ sec.20, T.8 N., R.17 E., at bridge crossing 1.6 miles downstream from West Pass Creek and 18 miles south of Clayton.

DRAINAGE AREA.--75.0 sq mi.

PERIOD OF RECORD.--Chemical analyses: May to September 1971.
Sediment records: May to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
MAY									
27...	1140	314	7.8	19	2.0	2.9	.3	68	0
JUNE									
27...	1155	569	6.1	13	1.1	1.9	.3	44	0
SEP.									
02...	1210	60	9.2	25	2.5	5.4	.9	87	0

DATE	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
MAY									
27...	9.8	1.0	.1	.04	.030	.000	.00	77	.10
JUNE									
27...	6.5	.2	.0	.02	.020	.010	.03	51	.07
SEP.									
02...	15	1.0	.6	.01	.030	.000	.00	102	.14

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
MAY								
27...	65.3	56	0	.2	10	125	8.2	5.5
JUNE								
27...	78.4	37	1	.1	10	87	7.5	5.0
SEP.								
02...	16.6	73	1	.3	14	173	7.8	12.0

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERAT' (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
MAY					
27...	1140	5.5	314	18	15
JUNE					
27...	1155	5.0	569	19	29
SEP.					
02...	1210	12.0	60	0	.00

13297404 GERMANIA CREEK NEAR CLAYTON, IDAHO

LOCATION.--Lat 44°02'21", long 114°27'40", in SE¼SE¼NW¼ sec.9, T.8 N., R.17 E., at bridge crossing 0.65 mile downstream from Bowery Creek and 15.5 miles south of Clayton.

DRAINAGE AREA.--51.0 sq mi.

PERIOD OF RECORD.--Chemical analyses: May to September 1971.
Sediment records: May to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
MAY									
27...	1255	128	13	20	2.2	2.6	1.6	85	0
JUNE									
27...	1330	386	11	17	1.1	1.8	.3	61	0
SEP.									
02...	1305	46	13	26	1.9	2.6	.4	95	0

DATE	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
MAY									
27...	5.3	.4	.0	.01	.050	.030	.09	87	.12
JUNE									
27...	1.8	.2	.0	.00	.14	.030	.09	63	.09
SEP.									
02...	4.3	.7	.3	.02	.040	.010	.03	96	.13

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
MAY								
27...	30.1	59	0	.1	8	130	7.7	4.0
JUNE								
27...	65.7	47	0	.1	8	100	7.6	5.0
SEP.								
02...	12.0	73	0	.1	7	156	8.0	7.0

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
MAY					
27...	1255	4.0	128	18	6.3
JUNE					
27...	1330	5.0	386	199	207
SEP.					
02...	1305	7.0	46	1	.12

13297418 WICKIUP CREEK NEAR CLAYTON, IDAHO

LOCATION.--Lat 44°03'42", long 114°27'43", in NW¼NW¼NE¼ sec.33, T.9 N., R.17 E., 13.5 miles south of Clayton.

DRAINAGE AREA.--6.1 sq mi.

PERIOD OF RECORD.--Chemical analyses: June to September 1971.
Sediment records: June to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
JUNE									
12...	1630	65	19	9.2	2.0	3.1	.4	48	0
JULY									
26...	0945	9.3	19	9.8	2.0	4.1	.1	51	0
AUG.									
11...	1135	6.6	20	11	2.1	5.3	.3	62	0

DATE	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
JUNE									
12...	3.3	2.0	.0	.03	.20	.050	.15	63	.09
JULY									
26...	1.8	.5	.2	.00	.070	.050	.15	63	.09
AUG.									
11...	2.3	.6	.5	.03	.080	.050	.15	73	.10

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
JUNE								
12...	11.1	31	0	.2	18	72	7.6	6.5
JULY								
26...	1.58	33	0	.3	21	80	7.8	8.0
AUG.								
11...	1.30	36	0	.4	24	98	7.6	9.0

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
JUNE					
12...	1630	6.5	65	110	19
JULY					
26...	0945	8.0	9.3	2	.05
AUG.					
11...	1135	9.0	6.6	3	.05

13297425 EAST FORK SALMON RIVER BELOW WICKIUP CREEK, NEAR CLAYTON, IDAHO

LOCATION.--Lat 44°04'58", long 114°26'56", in NE¼SW¼NW¼ sec.27, T.9 N., R.17 E., Custer County, at farm road bridge crossing 1.2 miles upstream from Little Boulder Creek and 12.5 miles south of Clayton.

DRAINAGE AREA.--172 sq mi.

PERIOD OF RECORD.--Chemical analyses: May to September 1971.
Sediment records: May to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
MAY												
27...	1430	504	10	20	2.2	3.3	.4	76	0	5.3	1.0	.3
JUNE												
27...	1215	--	9.2	16	1.7	2.5	.6	59	0	3.8	.5	.0
JULY												
22...	1040	496	7.7	18	1.8	2.3	.2	64	0	5.8	1.0	.2
SEP.												
02...	1355	126	12	25	2.3	4.6	.6	93	0	11	.7	.4

DATE	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)
MAY												
27...	.04	.040	.020	.06	79	.11	108	59	0	.2	11	131
JUNE												
27...	.06	.040	.010	.03	64	.09	--	47	0	.2	10	99
JULY												
22...	.00	.040	.000	.00	69	.09	92.4	52	0	.1	9	100
SEP.												
02...	.01	.040	.030	.09	103	.14	35.0	72	0	.2	12	166

DATE	PH (UNITS)	TEMP-ERATURE (DEG C)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
MAY												
27...	8.2	7.5	400	40	0	310	0	0	4	3	0	0
JUNE												
27...	7.8	5.5	400	10	140	130	19	0	0	1	6	0
JULY												
22...	7.9	6.0	300	30	10	60	0	0	9	3	0	0
SEP.												
02...	7.8	9.0	200	0	0	290	12	0	0	4	0	0

DATE	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
MAY											
27...	0	--	0	0	1.2	0	0	0	4	0	.1
JUNE											
27...	0	0	0	0	.0	0	0	0	5	0	.1
JULY											
22...	0	1	0	--	.3	0	--	0	0	0	.0
SEP.											
02...	0	0	0	100	.6	0	10	4	1	30	.1

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
MAY					
07...	1005	4.0	228	9	5.5
27...	1430	7.5	504	21	28
JUNE					
27...	1215	5.5	1300	90	316
JULY					
22...	1040	6.0	496	4	5.3
SEP.					
02...	1355	9.0	126	1	34

13297440 LITTLE BOULDER CREEK ABOVE BAKER LAKE, NEAR CLAYTON, IDAHO

LOCATION.--Lat 44°03'30", long 114°34'27", in SE¼SE¼ sec.33, T.9 N., R.16 E. (unsurveyed), Custer County, at narrow constriction between two meadows, 0.4 mile downstream from unnamed lake, 0.5 mile upstream from mouth of Castle Creek, 0.6 mile west of Baker Lake, 8.5 miles upstream from mouth, and 16.5 miles southwest of Clayton.

DRAINAGE AREA.--3.3 sq mi.

PERIOD OF RECORD.--Chemical analyses: June 1970 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	FIELD BICAR-BONATE (HCO3) (MG/L)	FIELD CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)
OCT.												
13...	2.2	3.0	3.6	.1	1.0	.2	11	0	.0	.1	.2	.00
JUNE												
29...	18	3.4	2.6	.1	.7	.1	8	0	2.5	.1	.0	.04
AUG.												
31...	4.3	2.9	2.6	.1	.7	.0	11	0	.5	.2	.3	.00

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	FIELD SPECI-FIC CON-DUCTANCE (MICRO-MHOS)	FIELD PH (UNITS)	TEMP-ERATURE (DEG C)	AIR TEMP-ERATURE (DEG C)
OCT.											
13...	.130	17	.10	10	0	.1	18	24	6.1	.0	-3.0
JUNE											
29...	.010	17	.83	7	0	.1	18	16	7.4	1.0	6.5
AUG.											
31...	.050	13	.15	7	0	.1	18	20	7.2	11.0	8.0

DATE	TIME	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FIELD DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION
OCT.					
13...	0845	0	0	10.6	101
JUNE					
29...	0845	0	0	10.5	103
AUG.					
31...	0915	0	220	--	--

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)
OCT.												
13...	0	30	0	210	10	0	--	--	--	0	--	--
JUNE												
29...	200	10	110	3	18	--	0	1	4	8	0	--
AUG.												
31...	200	10	0	160	0	--	4	0	0	0	0	0

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
OCT.										
13...	20	--	0	.0	--	--	40	--	0	--
JUNE										
29...	0	0	0	.0	0	0	0	0	0	.1
AUG.										
31...	3	0	100	.0	0	0	6	4	40	.3

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT.					
13...	0845	.0	2.2	0	.00
JUNE					
29...	0845	1.0	18	1	.05
AUG.					
31...	0915	11.0	4.3	1	.01

13297445 LITTLE BOULDER CREEK BELOW BOULDER CHAIN LAKE OUTLET, NEAR CLAYTON, IDAHO

LOCATION.--Lat 44°03'56", long 114°32'31", in NW¼SE¼ sec.35, T.9 N., R.16 E. (unsurveyed), Custer County, just below Boulder Chain Lakes outlet, 6 miles upstream from mouth, and 15.6 miles southwest of Clayton.

DRAINAGE AREA.--12.2 sq mi.

PERIOD OF RECORD.--Chemical analyses: June 1970 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	FIELD BICAR-BONATE (HCO3) (MG/L)	FIELD CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)
OCT.												
13...	7.0	11	14	.8	1.9	.3	13	0	6.5	.3	.3	.02
JUNE												
12...	--	9.5	7.2	.4	1.5	.1	27	0	.5	.8	.0	.03
29...	82	9.7	7.6	.7	1.3	.3	28	0	2.0	.3	.0	.02
AUG.												
31...	17	9.6	11	.4	1.3	.1	36	0	3.3	.4	.4	.01

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	FIELD SPECI-FIC COND-UCTANCE (MICRO-MHOS)	FIELD PH (UNITS)	TEMP-ERATURE (DEG C)	AIR TEMP-ERATURE (DEG C)
OCT.											
13...	.040	58	1.10	38	0	.1	10	84	6.6	.0	2.5
JUNE											
12...	.200	33	--	20	0	.1	14	47	7.4	3.5	--
29...	.040	38	8.41	22	0	.1	11	51	7.7	2.5	8.0
AUG.											
31...	.060	47	2.16	29	0	.1	9	66	7.8	9.5	12.5

DATE	TIME	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FIELD DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION
OCT.					
13...	1015	0	4	10.6	98
JUNE					
29...	0950	0	3	10.6	106
AUG.					
31...	1025	6	55	--	--

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)
OCT.												
13...	0	40	0	380	0	1	6	2	0	0	0	--
JUNE												
29...	700	10	250	40	9	--	0	2	3	8	0	0
AUG.												
31...	20[illegible]	3[illegible]	0	160	5	--	8	1	0	0	0	0

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
OCT.										
13...	0	0	0	.5	0	0	18	5	0	--
JUNE										
29...	2	0	0	.2	0	0	0	9	0	.1
AUG.										
31...	2	0	300	.8	0	0	5	7	30	.2

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT.					
13...	1015	.0	7.0	1	.02
JUNE					
29...	0950	2.5	82	4	.90
29...	1100	2.5	82	4	.89
AUG.					
31...	1025	9.5	16	1	.04

13297450 LITTLE BOULDER CREEK NEAR CLAYTON, IDAHO

LOCATION.--Lat 44°05'57", long 114°26'56", in SW¼NE¼NW¼ sec.22, T.9 N., R.17 E., Custer County, temperature recorder at gaging station on right bank 950 ft upstream from mouth and 11 miles south of Clayton.
DRAINAGE AREA.--18.4 sq mi.
PERIOD OF RECORD.--Chemical analyses: June 1970 to September 1971.
Water temperatures: June 1970 to September 1971.
EXTREMES.--1970-71:
Water temperatures: Maximum, 15.0° C Aug. 1, 3, 5, 8-11; minimum, 0° C Feb. 6.
Period of record:
Water temperatures (1970-71): Maximum, 15.0° C Aug. 1, 3, 5, 8-11; minimum, 0° C Feb. 6.
REMARKS.--No temperature record Jan. 4-10.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	FIELD BICAR-BONATE (HCO3) (MG/L)	FIELD CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)
OCT.												
12...	9.4	15	16	1.2	4.0	.4	65	0	3.2	.6	.3	.02
MAY												
07...	19	--	--	--	--	--	--	--	--	--	--	--
27...	55	14	11	1.0	3.0	.5	50	0	4.5	.4	.1	.00
JUNE												
27...	155	--	--	--	--	--	--	--	--	--	--	--
28...	120	9.8	7.3	.8	2.0	.4	31	0	3.0	.1	.0	.00
JULY												
22...	92	8.5	9.0	.7	1.4	.2	29	0	.5	.4	.1	.03
AUG.												
30...	19	13	13	.7	2.7	.3	47	0	3.0	.7	.4	.00

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	FIELD SPECI-FIC COND-UCTANCE (MICRO-MHOS)	FIELD PH (UNITS)	TEMP-ERATURE (DEG C)	AIR TEMP-ERATURE (DEG C)
OCT.											
12...	--	71	1.81	45	0	.3	16	104	8.1	5.0	4.0
MAY											
07...	--	--	--	--	--	--	--	--	--	3.0	--
27...	.080	59	8.76	32	0	.2	17	80	7.2	7.0	--
JUNE											
27...	--	--	--	--	--	--	--	--	--	6.5	--
28...	.040	42	13.6	22	0	.2	17	56	7.9	7.0	13.0
JULY											
22...	.030	36	8.94	25	2	.1	11	45	7.8	11.0	--
AUG.											
30...	.050	59	3.03	35	0	.2	14	86	8.2	11.0	26.5

DATE	TIME	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FIELD DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION
OCT.					
12...	1800	1	4	10.3	101
JUNE					
28...	1530	0	30	9.9	103
AUG.					
30...	1545	3	72	8.7	99

13297450 LITTLE BOULDER CREEK NEAR CLAYTON, IDAHO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)
OCT.											
12...	0	40	0	260	0	1	2	0	0	20	0
MAY											
27...	400	60	0	190	0	0	2	1	0	10	0
JUNE											
28...	600	30	140	90	7	0	0	3	2	0	0
JULY											
22...	200	10	30	60	11	--	4	8	0	0	0
AUG.											
30...	200	20	0	140	7	--	2	3	0	0	0

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)
OCT.											
12...	0	0	0	1.0	0	0	18	0	0	--	--
MAY											
27...	--	0	0	1.3	0	0	0	4	0	.1	--
JUNE											
28...	2	0	300	.2	0	0	2	0	10	.2	--
JULY											
22...	0	0	50	.5	0	0	0	3	10	.1	0
AUG.											
30...	10	0	0	1.6	0	0	10	3	20	.2	0

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT.					
12...	1800	5.0	9.4	1	.03
MAY					
07...	1150	3.0	19	5	.26
27...	1625	7.0	55	13	1.9
JUNE					
27...	1530	7.0	120	31	10
27...	1620	6.5	155	30	13
JULY					
22...	1215	11.0	92	8	1.9
AUG.					
30...	1545	11.0	19	2	.10

13297450 LITTLE BOULDER CREEK NEAR CLAYTON, IDAHO--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.5	5.0	1.5	0.5	1.0	0.5	1.5	1.0	2.0	1.5	1.0	1.0
2	6.5	5.5	1.5	0.5	0.5	0.5	1.0	1.0	1.5	1.0	1.0	0.5
3	6.5	5.5	1.0	0.5	1.0	0.5	1.0	1.0	1.0	0.5	1.0	1.0
4	6.5	5.0	1.0	0.5	1.0	0.5	---	---	0.5	0.5	1.0	1.0
5	6.5	4.0	2.0	1.0	1.0	0.5	---	---	0.5	0.5	1.0	1.0
6	4.0	2.0	2.0	1.5	1.5	1.0	---	---	0.5	0	1.0	1.0
7	2.5	1.5	2.0	1.0	2.0	1.5	---	---	0.5	0.5	1.5	1.0
8	3.0	1.5	1.5	0.5	2.0	1.5	---	---	0.5	0.5	2.0	1.5
9	4.5	3.0	2.0	1.0	1.5	1.5	---	---	1.0	0.5	2.5	1.5
10	4.5	3.0	2.0	1.0	1.5	0.5	---	---	1.5	1.0	2.5	2.0
11	4.5	3.0	1.0	1.0	1.0	0.5	1.0	1.0	1.5	1.0	2.5	2.0
12	5.0	4.0	1.5	1.0	0.5	0.5	1.0	0.5	1.5	1.0	2.5	2.0
13	4.0	2.0	1.0	0.5	1.0	0.5	0.5	0.5	1.5	1.5	2.0	1.5
14	3.0	2.0	1.0	0.5	0.5	0.5	1.0	0.5	1.5	1.0	1.5	1.0
15	2.0	1.0	0.5	0.5	1.0	1.0	1.0	1.0	2.0	1.0	2.0	1.0
16	2.0	1.0	1.5	0.5	1.5	1.0	1.0	0.5	1.0	1.0	1.0	1.0
17	2.5	1.5	1.5	1.0	1.5	1.5	1.0	0.5	1.0	1.0	1.5	1.0
18	3.0	2.0	1.0	1.0	1.5	1.5	1.0	1.0	1.5	1.0	1.5	1.0
19	3.0	2.0	1.0	0.5	1.5	1.5	1.0	1.0	1.5	1.0	1.5	1.0
20	3.0	2.0	1.5	1.0	1.5	1.5	1.0	0.5	1.0	0.5	2.0	1.5
21	2.5	1.5	1.0	0.5	1.5	1.5	0.5	0.5	0.5	0.5	2.5	1.5
22	2.0	1.0	0.5	0.5	1.5	1.5	0.5	0.5	1.0	0.5	2.5	2.0
23	1.5	1.0	0.5	0.5	1.5	1.5	1.0	0.5	1.0	0.5	3.0	2.5
24	1.5	0.5	1.5	0.5	1.5	1.5	1.0	1.0	1.5	0.5	3.0	2.0
25	0.5	0.5	1.0	1.0	1.5	1.5	1.0	1.0	1.0	1.0	3.0	2.0
26	0.5	0.5	1.0	0.5	1.5	1.5	2.0	1.0	1.0	0.5	3.0	2.0
27	0.5	0.5	1.0	0.5	1.5	1.5	1.5	1.0	1.0	0.5	2.5	1.5
28	0.5	0.5	1.0	1.0	1.5	1.5	1.0	1.0	1.0	0.5	2.5	1.0
29	0.5	0.5	1.0	1.0	1.5	1.5	1.5	1.0	---	---	3.0	1.5
30	1.0	0.5	1.5	1.0	2.0	1.5	2.0	1.5	---	---	3.0	2.0
31	1.5	0.5	---	---	1.5	1.5	2.0	2.0	---	---	2.5	1.0
MONTH	6.5	0.5	2.0	0.5	2.0	0.5	---	---	2.0	0	3.0	0.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	1.5	1.0	6.5	3.0	5.5	3.0	11.0	6.0	15.0	11.0	11.0	7.5
2	3.0	1.0	5.5	3.0	7.0	3.0	10.5	7.5	14.5	11.5	10.5	9.0
3	2.5	1.0	5.0	3.0	6.0	3.5	10.5	7.0	15.0	11.0	9.0	7.5
4	3.0	1.0	5.0	2.5	7.0	4.0	11.0	6.5	14.5	11.5	9.0	5.5
5	3.5	1.5	5.0	3.5	7.5	3.5	11.0	7.0	15.0	12.0	10.0	7.0
6	4.0	2.0	4.5	3.5	9.0	4.0	10.5	7.0	14.5	12.5	10.0	8.5
7	3.5	2.5	5.5	3.0	8.5	4.5	11.0	6.0	14.5	11.5	10.0	9.0
8	3.5	1.5	5.0	2.5	9.0	5.0	10.5	7.5	15.0	12.0	10.0	7.5
9	4.0	2.0	5.5	3.0	7.0	3.5	11.5	8.0	15.0	11.5	10.0	8.0
10	3.5	2.0	6.5	2.5	7.0	4.5	11.5	8.5	15.0	10.5	10.5	8.0
11	2.5	1.0	6.5	2.5	7.5	4.5	11.5	7.5	15.0	11.0	10.5	8.5
12	3.5	1.5	7.0	2.5	9.0	4.0	12.0	7.5	14.5	11.0	10.5	7.5
13	4.0	1.0	4.5	3.0	8.5	5.0	12.5	8.0	14.5	11.5	10.0	8.0
14	4.5	2.5	5.5	1.5	8.0	4.5	13.0	8.0	14.0	12.0	10.0	7.0
15	4.5	2.5	7.0	2.0	9.0	3.5	13.5	9.0	14.0	12.0	8.0	5.0
16	4.5	2.0	5.0	2.0	9.0	5.0	14.5	10.0	14.0	11.0	7.0	4.5
17	4.0	3.0	4.0	1.5	9.0	4.5	14.0	10.5	13.5	11.0	5.5	3.0
18	3.0	2.5	5.0	2.0	8.0	5.0	13.0	10.5	13.0	9.5	5.5	3.0
19	5.5	2.5	5.5	2.5	7.5	5.0	12.5	11.0	13.5	10.0	6.0	4.0
20	5.0	3.0	4.5	2.0	10.0	5.0	14.0	10.5	13.5	10.5	6.0	5.0
21	4.0	2.5	4.5	1.5	10.0	5.0	13.5	10.0	13.0	10.0	5.5	3.5
22	4.0	3.0	4.0	3.0	10.0	5.5	13.0	11.0	13.0	10.0	6.0	3.5
23	4.0	2.5	7.5	3.0	10.0	5.5	12.0	9.5	12.5	8.5	7.0	4.5
24	4.0	3.0	7.0	4.0	10.0	5.5	13.5	9.5	12.5	8.5	7.5	5.5
25	3.0	3.0	8.0	4.0	9.0	6.0	13.5	9.5	12.0	10.0	7.5	6.5
26	4.0	2.5	8.0	4.5	7.5	6.0	14.0	10.0	12.5	9.5	6.5	5.0
27	4.5	1.5	7.5	3.5	7.5	5.0	14.0	10.0	12.5	10.0	5.5	3.0
28	5.0	3.0	7.5	3.5	8.0	5.5	14.0	10.5	13.0	11.0	4.0	2.0
29	6.0	2.5	6.5	3.0	9.0	4.0	14.5	10.5	13.0	11.0	4.0	3.5
30	6.5	3.0	5.0	4.0	10.5	5.0	13.5	10.5	12.0	9.5	3.5	2.5
31	---	---	6.5	4.0	---	---	14.5	10.5	12.0	10.5	---	---
MONTH	6.5	1.0	8.0	1.5	10.5	3.0	14.5	6.0	15.0	8.5	11.0	2.0
YEAR	15.0	0										

13297480 BIG BOULDER CREEK AT LIVINGSTON MILL, NEAR CLAYTON, IDAHO

LOCATION.--Lat 44°07'47", long 114°31'33", in NW¼NE¼ sec.12, T.9 N., R.16 E. (unsurveyed), Custer County, 0.4 mile upstream from mouth of Jim Creek, 5.25 miles upstream from mouth, and 10 miles southwest of Clayton.

DRAINAGE AREA.--9.3 sq mi.

PERIOD OF RECORD.--Chemical analyses: June 1970 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	FIELD BICAR-BONATE (HCO3) (MG/L)	FIELD CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)
OCT. 12...	9.3	11	15	.9	2.0	.3	42	0	9.5	.4	.3	.02
JUNE 28...	82	9.5	7.3	.5	1.5	.2	25	0	3.0	.1	.0	.00
AUG. 31...	21	9.0	11	.4	1.3	.3	37	0	6.3	.4	.4	.00

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	FIELD SPECI-FIC COND-UCTANCE (MICRO-MHOS)	FIELD PH (UNITS)	TEMP-ERATURE (DEG C)	AIR TEMP-ERATURE (DEG C)
OCT. 12...	--	66	1.66	41	0	.1	9	94	7.3	3.5	5.5
JUNE 28...	--	40	8.86	20	0	.1	14	50	7.6	3.5	7.5
AUG. 31...	.050	48	2.72	29	0	.1	9	74	8.0	11.0	--

DATE	TIME	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FIELD DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION
OCT. 12...	1500	0	0	10.4	102
JUNE 28...	0935	0	5	10.3	101
AUG. 31...	1500	3	25	--	--

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)
OCT. 12...	[illegible]	40	0	140	0	1	2	4	0	0	0	--
JUNE 28...	30	20	75	120	10	--	0	3	6	0	0	1
AUG. 31...	100	10	0	80	7	--	4	0	0	0	0	0

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
OCT. 12...	130	0	0	1.2	0	10	66	3	0	--
JUNE 28...	4	0	0	.6	0	0	3	0	10	.2
AUG. 31...	8	3	130	1.2	0	0	2	8	20	.3

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT. 12...	1500	3.5	9.3	1	.03
JUNE 28...	0935	3.5	82	13	2.9
AUG. 31...	1500	11.0	21	3	.17

13297485 JIM CREEK AT LIVINGSTON MILL, NEAR CLAYTON, IDAHO

LOCATION.--Lat 44°07'54", long 114°31'43", in SW¼SW¼ sec.1, T.9 N., R.16 E. (unsurveyed), Custer County, 0.25 mile upstream from crossing at Livingston Mill, 0.6 mile upstream from mouth, and 10 miles southwest of Clayton.

DRAINAGE AREA.--5.5 sq mi.

PERIOD OF RECORD.--Chemical analyses: June 1970 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	FIELD BICAR-BONATE (HCO3) (MG/L)	FIELD CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)
OCT.												
12...	2.4	16	26	2.8	2.0	.7	77	0	18	.6	.2	.02
JUNE												
28...	17	14	19	2.0	1.6	.5	57	0	12	.1	.0	.07
AUG.												
31...	3.7	16	24	2.5	1.9	.4	73	1	16	.7	.3	.00

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	FIELD SPECI-FIC COND-UCTANCE (MICRO-MHOS)	FIELD PH (UNITS)	TEMP-ERATURE (DEG C)	AIR TEMP-ERATURE (DEG C)
OCT.											
12...	--	110	.72	76	10	.1	5	94	7.4	3.0	5.5
JUNE											
28...	.080	83	3.81	56	2	.1	6	117	7.9	3.0	7.5
AUG.											
31...	.110	102	1.02	70	5	.1	6	148	8.4	8.5	18.0

DATE	TIME	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FIELD DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION
OCT.					
12...	1430	0	0	10.5	102
JUNE					
28...	0850	1	5	10.3	101
AUG.					
31...	1425	2	160	--	--

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)
OCT.												
12...	0	20	0	180	0	0	5	3	0	10	3	--
JUNE												
28...	300	20	180	0	3	--	0	10	7	100	0	--
AUG.												
31...	200	10	0	100	2	--	4	2	0	80	0	0

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
OCT.										
12...	3	1	100	2.7	0	10	13	--	0	--
JUNE										
28...	20	1	0	1.7	0	0	14	2	10	.1
AUG.										
31...	4	1	100	2.4	0	0	--	4	30	.1

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT.					
12...	1430	3.0	2.4	3	.07
JUNE					
28...	0850	3.0	17	60	2.7
AUG.					
31...	1425	8.5	3.7	7	.07

13297500 BIG BOULDER CREEK NEAR CLAYTON, IDAHO

LOCATION.--Lat 44°05'58", long 114°26'24", in SW¼NW¼NE¼ sec.15, T.9 N., R.17 E., Custer County, at bridge crossing 0.4 mile upstream from mouth.

DRAINAGE AREA.--27.5 sq mi.

PERIOD OF RECORD.--Chemical analyses: May to September 1971.
Sediment records: May to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)
MAY												
31...	63	16	14	2.4	3.1	1.0	54	0	5.5	2.0	.1	.03
JUNE												
12...	90	--	--	--	--	--	--	--	--	--	--	--
26...	198	11	9.0	1.2	1.7	.7	34	0	3.5	.7	.0	.00
JULY												
26...	80	--	--	--	--	--	--	--	--	--	--	--
SEP.												
02...	27	13	16	1.1	2.5	.5	49	0	2.0	.8	.4	.01

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
MAY											
31...	1.0	71	.10	12.1	45	1	.2	13	99	8.0	4.0
JUNE											
12...	--	--	--	--	--	--	--	--	--	--	9.5
26...	1.2	45	.06	24.1	27	0	.1	12	61	7.4	5.0
JULY											
26...	--	--	--	--	--	--	--	--	--	--	9.5
SEP.											
02...	.050	60	.08	4.37	44	4	.2	11	110	7.5	8.0

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
MAY					
31...	1535	4.0	63	2387	406
JUNE					
12...	1720	9.5	90	884	215
26...	1510	5.0	198	1843	985
JULY					
26...	1130	9.5	80	14	3.0
SEP.					
02...	1500	8.0	27	2	.15

SALMON RIVER BASIN

13297530 BIG LAKE CREEK NEAR CLAYTON, IDAHO

LOCATION.--Lat 44°09'30", long 114°22'43", in NW¼NE¼NW¼ sec.31, T.10 N., R.18 E., Custer County, 1.0 mile upstream from mouth and 7.0 miles south of Clayton.

DRAINAGE AREA.--31.0 sq mi.

PERIOD OF RECORD.--Chemical analyses: May to September 1971.
Sediment records: May to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
MAY									
31...	1645	25	25	18	2.9	10	1.8	94	0
JUNE									
23...	1405	21	26	15	2.3	9.8	.2	76	0
AUG.									
15...	1610	3.9	22	17	2.6	11	.6	98	0

DATE	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
MAY									
31...	10	1.9	.1	.11	.11	.090	.28	117	.16
JUNE									
23...	5.0	1.5	.0	.04	.10	.080	.25	98	.13
AUG.									
15...	4.0	2.7	.4	.63	.15	.060	.18	111	.15

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
MAY								
31...	7.90	57	0	.6	27	152	7.4	5.0
JUNE								
23...	5.66	47	0	.6	31	133	7.6	4.0
AUG.								
15...	1.17	53	0	.7	31	155	7.1	19.0

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
MAY					
31...	1645	5.0	25	17	1.1
JUNE					
23...	1405	4.0	21	8	.45
AUG.					
15...	1610	19.0	3.9	9	.09

13297600 HERD CREEK NEAR CLAYTON, IDAHO

LOCATION.--Lat 44°09'11", long 114°17'54", in SE¼SW¼NE¼ sec.35, T.10 N., R.18 E., Custer County, 500 ft upstream from mouth and 8.8 miles southeast of Clayton.

DRAINAGE AREA.--117 sq mi.

PERIOD OF RECORD.--Chemical analyses: June to September 1971.
Sediment records: June to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
JUNE									
01...	0840	186	15	20	5.0	5.8	.8	100	0
23...	1500	--	14	17	3.9	4.9	.5	81	0
SEP.									
01...	0930	30	14	23	5.1	6.9	.7	110	0

DATE	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
JUNE									
01...	7.8	1.4	.1	.02	.15	.040	.12	105	.14
23...	4.5	1.2	.0	.09	.30	.040	.12	86	.12
SEP.									
01...	5.8	1.6	.4	.01	.040	.010	.03	112	.15

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
JUNE								
01...	52.7	70	0	.3	15	162	7.5	6.0
23...	--	58	0	.3	15	133	7.5	10.0
SEP.								
01...	9.25	78	0	.3	16	188	7.8	7.0

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
JUNE					
01...	0840	6.0	186	89	22
23...	1500	10.0	275	233	173
JULY					
26...	1415	12.0	73	12	2.3
SEP.					
01...	0930	7.0	31	3	.17

13297670 ROAD CREEK ABOVE HORSE BASIN CREEK, NEAR CLAYTON, IDAHO

LOCATION.--Lat 44°10'36", long 114°12'03", in SW¼SW¼SE¼ sec.22, T.10 N., R.19 E., Custer County, 0.2 mile upstream from Horse Basin Creek and 11 miles southeast of Clayton.

DRAINAGE AREA.--37.8 sq mi.

PERIOD OF RECORD.--Chemical analyses: June to September 1971.
Sediment records: June to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
JUNE									
13...	1530	13	36	16	7.1	7.5	2.8	102	0
JULY									
20...	1430	4.1	41	22	9.3	8.3	3.6	138	0
AUG.									
11...	1355	3.3	44	22	11	10	3.7	152	0

DATE	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
JUNE									
13...	7.8	3.3	.1	.03	.12	.100	.31	131	.18
JULY									
20...	4.3	3.9	.3	.05	.18	.150	.46	161	.22
AUG.									
11...	4.8	5.0	.5	.04	.29	.170	.52	176	.24

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
JUNE								
13...	4.60	69	0	.4	18	167	7.7	13.5
JULY								
20...	1.78	93	0	.4	16	213	7.6	16.0
AUG.								
11...	1.57	100	0	.4	17	236	7.8	16.5

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
JUNE					
13...	1530	13.5	13	43	1.5
JULY					
20...	1430	16.0	4.1	22	.24
AUG.					
11...	1355	16.5	3.3	26	.23

13297680 HORSE BASIN CREEK NEAR CLAYTON, IDAHO

LOCATION.--Lat 44°10'40", long 114°12'07", in NE¼SE¼SW¼ sec.22, T.10 N., R.19 E., Custer County, at mouth on bridge crossing and 11 miles southeast of Clayton.

DRAINAGE AREA.--33.8 sq mi.

PERIOD OF RECORD.--Chemical analyses: June to September 1971.
Sediment records: June to September 1971.

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
JUNE 13...	1400	3.9	46	42	24	18	4.7	270	0
JULY 20...	1200	1.7	45	47	24	20	5.3	302	0
AUG. 11...	1300	.86	46	49	24	21	4.9	325	0

DATE	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
JUNE 13...	14	11	.3	.07	.20	.090	.28	293	.40
JULY 20...	13	10	.4	.06	.33	.120	.37	314	.43
AUG. 11...	15	12	.7	.02	.19	.110	.34	333	.45

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
JUNE 13...	3.09	200	0	.5	16	461	8.1	16.5
JULY 20...	1.44	220	0	.6	16	469	7.5	15.0
AUG. 11...	.77	220	0	.6	17	486	8.2	17.0

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
JUNE 13...	1400	16.5	3.9	82	.86
JULY 20...	1200	15.0	1.7	230	1.0
AUG. 11...	1300	17.0	.86	31	.07

13297700 ROAD CREEK NEAR CLAYTON, IDAHO

LOCATION.--Lat 44°11'15", long 114°17'09", in NW¼NE¼NW¼ sec.24, T.10 N., R.18 E., Custer County, 300 ft upstream from bridge crossing, 0.3 mile upstream from mouth, and 7.5 miles southeast of Clayton.

DRAINAGE AREA.--87.1 sq mi.

PERIOD OF RECORD.--Chemical analyses: June to September 1971.
Sediment records: June to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
JUNE									
01...	0935	12	38	27	12	12	3.3	163	0
23...	1550	3.8	38	34	14	16	2.8	207	0
AUG.									
15...	1500	2.6	36	40	16	22	2.7	250	0

DATE	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
JUNE									
01...	11	5.7	.2	.03	.20	.140	.43	190	.26
23...	9.8	6.4	.3	.16	.40	.120	.37	224	.30
AUG.									
15...	13	7.8	.6	.19	.14	.100	.31	262	.36

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
JUNE								
01...	6.16	120	0	.5	18	283	7.6	7.0
23...	2.30	140	0	.6	19	340	7.7	14.0
AUG.								
15...	1.84	170	0	.7	22	402	8.0	9.0

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
JUNE					
01...	0935	7.0	12	153	4.9
23...	1550	14.0	3.8	17	.17
AUG.					
15...	1500	9.0	2.6	53	.37

13298000 EAST FORK SALMON RIVER NEAR CLAYTON, IDAHO

LOCATION.--Lat 44°13'29", long 114°17'06", in NW¼NE¼SW¼ sec.1, T.10 N., R.18 E., Custer County, at bridge crossing 5.2 miles southeast of Clayton.

DRAINAGE AREA.--500 sq mi.

PERIOD OF RECORD.--Chemical analyses: June to September 1971.
Sediment records: May to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
JUNE												
01...	1115	1070	12	21	3.0	4.6	.4	87	0	11	1.4	.1
13...	1645	--	11	17	2.3	4.5	.6	74	0	4.3	.7	.0
23...	1150	2670	10	15	2.6	3.6	.7	62	0	7.8	1.0	.0
JULY												
22...	1440	943	9.9	17	2.4	3.3	.5	67	0	6.5	8.9	.3
SEP.												
01...	1030	268	14	27	3.8	6.2	.8	111	0	9.8	1.3	.4

DATE	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)
JUNE												
01...	.03	.10	.020	.06	96	.13	277	65	0	.2	13	144
13...	.11	.20	.020	.06	77	.10	--	52	0	.3	16	119
23...	.10	.35	.050	.15	76	.10	548	48	0	.2	14	103
JULY												
22...	.00	.070	.010	.03	82	.11	209	52	0	.2	12	131
SEP.												
01...	.09	.040	.030	.09	119	.16	86.1	83	0	.3	14	147

DATE	PH (UNITS)	TEMP-ERATURE (DEG C)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
JUNE												
01...	8.0	5.0	300	40	0	280	0	0	3	4	1	10
13...	7.4	9.5	--	--	--	--	--	--	--	--	--	--
23...	7.3	7.0	1500	1100	570	210	16	3	1	24	11	30
JULY												
22...	7.3	7.0	0	10	0	160	18	0	4	1	0	10
SEP.												
01...	7.6	11.0	200	10	0	270	16	0	4	4	0	20

DATE	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
JUNE											
01...	2	--	0	100	2.1	0	0	0	1	10	.1
13...	--	--	--	--	--	--	--	--	--	--	--
23...	0	2	0	200	4.5	0	0	2	34	30	.1
JULY											
22...	1	--	0	50	1.4	0	0	0	0	--	.0
SEP.											
01...	0	0	0	0	2.0	0	10	4	0	40	.0

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
MAY					
06...	1630	7.0	460	78	96
JUNE					
01...	1115	5.0	1070	52	150
13...	1645	9.5	2500	301	2032
23...	1150	7.0	2670	555	4001
JULY					
22...	1440	7.0	943	51	130
SEP.					
01...	1030	11.0	268	4	2.8

13298500 SALMON RIVER NEAR CHALLIS, IDAHO

LOCATION.--Lat 44°22'43", long 114°15'18, in SW¼SE¼SE¼ sec.7, T. 12 N., R.19 E., Custer County, on left bank 250 ft downstream from Bayhorse Creek and 9 miles south of Challis.

DRAINAGE AREA.--1,800 sq mi.

PERIOD OF RECORD.--Chemical analyses: May to September 1971.
Sediment records: April to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
MAY												
26...	1615	4680	14	13	1.7	3.5	.6	55	0	3.5	1.1	.2
JUNE												
26...	1335	10100	12	14	1.2	2.7	.4	53	0	6.8	.1	.1
JULY												
23...	1000	3700	11	15	1.5	3.0	.5	58	0	3.3	.9	.3
SEP.												
01...	1330	1160	15	22	2.6	5.2	.8	91	0	5.8	.7	.6

DATE	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC CONDUCTANCE (MICRO-MHOS)
MAY												
26...	.01	.060	.040	.12	65	.09	821	39	0	.2	16	96
JUNE												
26...	.00	.20	.020	.06	64	.09	1750	40	0	.2	13	79
JULY												
23...	.00	.040	.010	.03	64	.09	639	44	0	.2	13	94
SEP.												
01...	.03	.040	.010	.03	99	.13	310	66	0	.3	15	157

DATE	PH (UNITS)	TEMP-ERATURE (DEG C)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
MAY												
26...	7.9	8.5	500	60	20	130	0	0	0	2	1	30
JUNE												
26...	7.4	8.0	500	40	220	40	12	0	0	1	9	7
JULY												
23...	7.6	12.5	100	20	30	20	1	0	7	2	0	0
SEP.												
01...	7.7	13.0	200	210	10	180	14	0	2	7	9	40

DATE	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
MAY											
26...	0	--	0	0	.2	0	0	0	7	30	.3
JUNE											
26...	0	10	0	0	.0	0	0	0	0	0	.1
JULY											
23...	0	0	0	0	.1	0	0	0	0	10	.0
SEP.											
01...	0	0	0	400	.8	0	0	10	0	30	.1

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
APR.					
29...	1550	10.0	1430	17	67
MAY					
26...	1615	8.5	4680	56	708
JUNE					
26...	1335	8.0	10100	172	4690
JULY					
23...	1000	12.5	3700	7	69
SEP.					
01...	1330	13.0	1160	2	6.2

13317000 SALMON RIVER AT WHITE BIRD, IDAHO

LOCATION.--Lat 45°45'01", long 116°19'23", in NE¼NW¼SW¼ sec.22, T.28 N., R.1 E., Idaho County, at gaging station, on left bank 0.1 mile upstream from White Bird Creek, 0.6 mile downstream from Canfield-Joseph highway bridge, 1 mile southwest of White Bird, and at mile 53.7.
DRAINAGE AREA.--13,550 sq mi, approximately, including White Bird Creek basin.
PERIOD OF RECORD.--Chemical analyses: November 1958 to September 1959, October 1965 to September 1971.
Water temperatures: October 1966 to September 1971.
EXTREMES.--1970-71:
Water temperatures: Maximum, 23° C Aug. 11, 19, 29; minimum, freezing point Jan. 5.
Period of record:
Water temperatures: Maximum, 25° C Aug. 23, 1969, and Aug. 24, 1970; minimum, freezing point Jan. 2, 18, 24, 1969, Jan. 7, 1970, and Jan. 5, 1971.
REMARKS.--Temperature observations made at approximately 0800 and 1700 on alternate days.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
1	---	14.0	6.0	---	3.0	---	---	4.0	4.0	---	5.0	---
2	12.0	---	---	7.0	---	3.0	3.0	---	---	5.0	---	3.0
3	---	---	5.0	---	4.0	---	---	2.0	3.0	---	4.0	---
4	---	---	---	8.0	---	5.0	2.0	---	---	4.0	---	5.0
5	---	12.0	5.0	---	3.0	---	---	0	3.0	---	4.0	---
6	12.0	---	---	8.0	---	---	2.0	---	---	5.0	---	5.0
7	---	11.0	9.0	---	5.0	---	---	5.0	2.0	---	5.0	---
8	10.0	---	---	8.0	---	5.0	4.0	---	---	3.0	---	6.0
9	---	10.0	9.0	---	3.0	---	---	6.0	2.0	---	6.0	---
10	10.0	---	---	8.0	---	6.0	4.0	---	---	7.0	---	6.0
11	---	10.0	7.0	---	3.0	---	---	5.0	5.0	---	7.0	---
12	12.0	---	---	9.0	---	5.0	2.0	---	---	7.0	---	6.0
13	---	10.0	7.0	---	2.0	---	---	5.0	5.0	---	5.0	---
14	9.0	---	---	6.0	---	2.0	2.0	---	---	8.0	---	7.0
15	---	9.0	7.0	---	5.0	---	---	5.0	7.0	---	6.0	---
16	6.0	---	---	8.0	---	6.0	3.0	---	---	8.0	---	8.0
17	---	8.5	9.0	---	2.0	---	---	7.0	6.0	---	8.0	---
18	8.0	---	---	9.0	---	3.0	3.0	---	---	7.0	---	9.0
19	---	9.0	5.0	---	2.0	---	---	5.0	7.0	---	7.0	---
20	7.0	---	---	7.0	---	2.0	3.0	---	---	8.0	---	12.0
21	---	9.0	4.0	---	2.0	---	---	5.0	6.0	---	9.0	---
22	9.0	---	---	3.0	---	2.0	3.0	---	---	7.0	---	9.0
23	---	9.0	5.0	---	2.0	---	---	4.0	6.0	---	9.0	---
24	9.0	---	---	8.0	---	2.0	4.0	---	---	8.0	---	8.0
25	---	8.0	4.0	---	3.0	---	---	5.0	6.0	---	9.0	---
26	8.0	---	---	7.0	---	3.0	4.0	---	---	5.0	---	9.0
27	---	7.0	4.0	---	3.0	---	---	3.0	6.0	---	5.0	---
28	5.0	---	---	6.0	---	5.0	5.0	---	---	7.0	---	10.0
29	---	9.0	3.0	---	2.0	---	---	7.0	---	---	9.0	---
30	7.0	---	---	6.0	---	6.0	7.0	---	---	---	---	8.0
31	---	6.0	---	---	2.0	---	---	4.0	---	---	8.0	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
1	---	10.0	---	13.0	8.0	---	12.0	---	---	21.0	17.0	---
2	8.0	---	11.0	---	---	9.0	---	13.0	19.0	---	---	18.0
3	---	12.0	---	13.0	9.0	---	12.0	---	---	22.0	17.0	---
4	10.0	---	11.0	---	---	10.0	---	14.0	20.0	---	---	18.0
5	---	10.0	---	10.0	9.0	---	13.0	---	---	22.0	16.0	---
6	9.0	---	10.0	---	---	12.0	---	12.0	19.0	---	---	17.0
7	---	8.0	---	10.0	10.0	---	12.0	---	---	21.0	16.0	---
8	8.0	---	9.0	---	---	10.0	---	14.0	19.0	---	---	19.0
9	---	9.0	---	11.0	10.0	---	13.0	---	---	22.0	16.0	---
10	8.0	---	9.0	---	---	9.0	---	15.0	20.0	---	---	19.0
11	---	9.0	---	12.0	10.0	---	12.0	---	---	23.0	18.0	---
12	8.0	---	10.0	---	---	12.0	---	14.0	20.0	---	---	18.0
13	---	10.0	---	10.0	10.0	---	12.0	---	---	22.0	16.0	---
14	9.0	---	9.0	---	---	12.0	---	17.0	20.0	---	---	18.0
15	---	10.0	---	8.0	10.0	---	15.0	---	---	19.0	13.0	---
16	9.0	---	8.0	---	---	12.0	---	19.0	20.0	---	---	15.0
17	---	8.0	---	8.0	10.0	---	17.0	---	---	22.0	13.0	---
18	9.0	---	7.0	---	---	12.0	---	19.0	19.0	---	---	16.0
19	---	10.0	---	8.0	11.0	---	19.0	---	---	23.0	16.0	---
20	9.0	---	8.0	---	---	14.0	---	20.0	20.0	---	---	16.0
21	---	10.0	---	10.0	11.0	---	18.0	---	---	22.0	14.0	---
22	10.0	---	---	---	---	14.0	---	19.0	20.0	---	---	16.0
23	---	10.0	---	10.0	13.0	---	18.0	---	---	19.0	14.0	---
24	8.0	---	9.0	---	---	13.0	---	19.0	17.0	---	---	14.0
25	---	10.0	---	12.0	12.0	---	18.0	---	---	20.0	12.0	---
26	8.0	---	9.0	---	---	11.0	---	20.0	19.0	---	---	9.0
27	---	9.0	---	10.0	12.0	---	18.0	---	---	17.0	11.0	---
28	9.0	---	9.0	---	---	11.0	---	20.0	19.0	---	---	10.0
29	---	12.0	---	12.0	9.0	---	18.0	---	---	23.0	11.0	---
30	10.0	---	10.0	---	---	12.0	---	22.0	---	---	---	13.0
31	---	---	---	10.0	---	---	19.0	---	---	19.0	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

SNAKE RIVER MAIN STEM

13334300 SNAKE RIVER NEAR ANATONE, WASH.

LOCATION.--Lat 46°05'50", long 116°58'36", in SE¼NE¼ sec.12, T.7 N., R.46 E., Asotin County, temperature recorder at gaging station on left bank, 1.2 miles downstream from Grande Ronde River, 7.8 miles east of Anatone, 22 miles south of Clarkston, and at mile 167.2.
DRAINAGE AREA.--92,960 sq mi, approximately.
PERIOD OF RECORD.--Water temperatures: October 1959 to September 1971.
EXTREMES.--1970-71:
Water temperatures: Maximum, 23.5° C Aug. 2-5, 9. [illegible]; minimum, 1.0° C Jan. 9, 10.
Period of record:
Water temperatures: Maximum (1959-68, 1971), 25° C Aug. 11, 1960, Aug. 13, 1963; minimum freezing point Jan. 25, 26, 1962, Dec. 22, 1964.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	7.0	10.5	10.5	10.5	10.5	16.0	15.5	23.0	22.0	21.0	20.5
2	8.0	7.0	11.0	10.5	11.0	10.5	16.5	16.0	23.5	23.0	20.5	20.0
3	8.5	8.0	11.5	11.0	11.0	11.0	16.5	16.0	23.5	23.0	20.0	19.5
4	8.5	8.5	11.5	11.0	12.0	11.0	16.5	16.0	23.5	23.0	19.5	19.5
5	8.5	8.5	11.0	10.5	12.0	11.5	16.5	16.0	23.5	22.0	20.0	19.5
6	9.0	8.5	10.5	10.5	13.5	12.0	16.5	16.0	23.0	22.0	20.0	19.5
7	9.0	9.0	11.5	10.5	13.5	13.5	16.5	15.5	23.0	21.5	19.5	19.0
8	9.0	8.5	11.5	11.5	13.5	13.5	16.5	16.0	23.0	22.0	19.0	19.0
9	9.0	8.5	12.0	11.5	13.5	13.5	16.5	16.5	23.5	23.0	19.5	19.0
10	9.0	9.0	12.0	11.5	13.5	13.5	16.5	16.5	23.5	22.0	19.5	19.5
11	9.0	9.0	12.0	12.0	13.0	12.0	16.5	16.5	23.0	22.0	20.0	19.5
12	9.5	9.0	12.0	12.0	13.5	13.0	17.0	16.5	23.0	22.0	20.0	19.5
13	9.5	9.5	12.0	11.5	13.5	13.5	18.0	17.0	23.0	22.0	19.5	19.5
14	10.0	10.0	11.5	11.0	13.5	13.5	18.0	18.0	23.0	22.0	19.5	19.0
15	10.0	10.0	11.0	11.0	13.5	13.5	19.0	18.0	23.0	22.0	19.0	19.0
16	10.0	10.0	11.0	11.0	13.5	13.5	19.5	19.0	22.0	21.5	19.0	18.0
17	10.0	10.0	11.0	10.0	13.5	13.5	20.0	19.0	22.0	21.5	18.0	18.0
18	10.0	10.0	11.0	10.0	13.5	13.5	20.0	19.5	22.0	21.5	18.0	18.0
19	10.0	9.5	11.0	11.0	14.0	13.5	20.5	19.5	22.0	21.5	18.0	18.0
20	10.0	10.0	12.0	11.0	14.5	14.0	20.5	20.5	23.0	22.0	18.0	17.0
21	10.0	10.0	12.0	11.5	15.0	14.5	21.0	20.0	22.0	21.5	17.0	17.0
22	10.0	10.0	13.0	12.0	15.5	15.0	21.0	20.5	22.0	21.5	17.0	17.0
23	10.0	10.0	13.5	12.0	15.5	15.5	21.0	20.5	21.5	20.0	17.0	16.5
24	10.0	10.0	13.5	13.5	15.5	14.5	21.0	20.5	20.5	20.0	16.5	16.5
25	10.0	10.0	14.0	13.5	15.0	15.0	21.0	20.5	20.5	20.0	16.5	16.5
26	9.5	9.0	14.0	13.5	15.0	14.5	21.5	20.5	21.0	20.5	16.5	16.0
27	9.5	9.5	13.5	13.5	14.5	14.0	22.0	20.5	21.0	21.0	16.0	16.0
28	10.5	9.5	13.5	13.0	14.0	14.0	22.0	21.5	21.5	21.0	16.0	15.5
29	10.5	10.5	13.0	12.0	14.5	14.0	23.0	21.5	21.5	21.0	15.5	15.5
30	10.5	10.5	12.0	11.0	15.5	14.5	23.0	22.0	22.0	21.5	15.5	15.0
31	---	---	11.0	10.5	---	---	23.0	22.0	21.5	21.0	---	---
MONTH	10.5	7.0	14.0	10.0	15.5	10.5	23.0	15.5	23.5	20.0	21.0	15.0
YEAR	23.5	1.0										

13340600 NORTH FORK CLEARWATER RIVER NEAR CANYON RANGER STATION, IDAHO

LOCATION.--Lat 46°50'26", long 115°37'11", in SE¼NE¼ sec.6, T.40 N., R.7 E., Clearwater County, temperature recorder at gaging station on left bank immediately upstream from forest road bridge, 0.1 mile upstream from Beaver Creek, 1.7 miles downstream from Canyon ranger station, and at mile 58.0.
DRAINAGE AREA.--1,360 sq mi, approximately.
PERIOD OF RECORD.--Water temperatures: February 1970 to September 1971.
EXTREMES.--1970-71:
Period of record:
Water temperatures (1970-71): Maximum, 23.0° C Aug. 4, 5; minimum, several days in January.
REMARKS.--No record Jan. 5-8. Temperature data furnished by U.S. Army, Corps of Engineers, Walla Walla District.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	9.0	2.5	2.0	2.5	2.5	0.5	0.5	2.0	2.0	3.0	3.0
2	9.0	9.0	2.0	2.0	2.5	2.5	0.5	0	3.0	2.0	3.0	3.0
3	9.0	9.0	2.0	2.0	2.5	2.0	0	0	3.0	3.0	3.0	3.0
4	9.0	9.0	2.0	2.0	2.0	2.0	0	0	3.0	3.0	3.0	3.0
5	9.0	9.0	2.0	2.0	2.0	2.0	0	0	3.0	3.0	3.0	3.0
6	9.0	8.5	3.0	2.0	2.0	2.0	---	---	3.0	3.0	3.0	3.0
7	8.5	7.5	3.5	3.0	2.0	2.0	---	---	3.0	3.0	3.0	3.0
8	7.5	7.0	3.5	3.5	2.0	2.0	---	---	3.0	3.0	3.0	3.0
9	7.0	6.5	4.0	3.5	2.0	2.0	0	0	3.0	3.0	3.0	3.0
10	6.5	6.5	4.0	4.0	2.5	2.0	0	0	3.0	2.5	3.0	3.0
11	7.0	6.5	4.0	4.0	2.5	2.5	0	0	2.5	2.0	3.0	3.0
12	7.5	7.0	4.0	4.0	2.5	2.5	0	0	2.5	2.0	3.5	3.0
13	7.5	7.0	4.0	4.0	2.5	2.5	0	0	2.5	2.5	3.5	3.5
14	7.0	6.5	4.0	4.0	2.5	2.0	0	0	2.0	2.0	3.5	3.5
15	6.5	5.5	4.0	3.5	2.0	2.0	0	0	3.0	3.0	3.5	3.5
16	5.5	4.5	3.5	3.5	2.0	2.0	0	0	3.0	3.0	3.5	3.5
17	4.5	4.5	3.5	3.5	2.0	2.0	0	0	3.0	3.0	3.5	3.5
18	4.5	4.5	3.5	3.5	2.0	2.0	0.5	0	3.0	3.0	3.5	3.5
19	4.5	4.5	3.5	3.5	2.0	2.0	0.5	0.5	3.0	3.0	3.5	3.5
20	5.5	5.0	3.5	3.5	2.0	2.0	0.5	0.5	3.0	3.0	3.5	3.5
21	6.0	6.0	3.5	3.0	2.0	2.0	1.0	0.5	3.0	3.0	3.5	3.5
22	6.0	6.0	3.0	2.0	2.0	2.0	1.0	1.0	3.0	3.0	3.5	3.5
23	6.0	6.0	2.0	1.5	2.0	1.5	1.5	1.0	3.0	3.0	3.5	3.5
24	6.0	5.5	1.5	1.0	1.5	1.5	1.5	1.5	3.0	3.0	3.5	3.5
25	5.5	5.0	1.5	1.0	1.5	1.5	2.0	1.5	3.0	3.0	3.5	3.5
26	5.0	4.5	2.0	1.5	1.5	1.5	2.0	2.0	3.0	3.0	3.5	3.5
27	4.5	4.0	2.0	2.0	1.5	1.5	2.0	2.0	3.0	3.0	3.5	3.5
28	4.0	4.0	2.0	2.0	1.5	1.0	2.0	2.0	3.0	3.0	3.5	3.5
29	4.0	3.5	2.0	2.0	1.0	1.0	2.0	2.0	---	---	3.5	3.5
30	3.5	3.0	2.5	2.0	1.0	0.5	2.0	2.0	---	---	4.0	3.5
31	3.0	2.5	---	---	0.5	0.5	2.0	2.0	---	---	4.0	4.0
MONTH	9.0	2.5	4.0	1.0	2.5	0.5	2.0	0	3.0	2.0	4.0	3.0

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

13340760 LITTLE NORTH FORK CLEARWATER RIVER NEAR ELK RIVER, IDAHO

LOCATION.--Lat 46°54'16", long 115°50'47", in NW¼NW¼ sec.16, T.41 N., R.5 E. (Boehls Butte quadrangle), Clearwater County, temperature recorder at gaging station on left bank, 1.2 miles upstream from flow line of Dworshak Reservoir, 4.0 miles upstream from Breakfast Creek, and 18 miles northeast of Elk River.
DRAINAGE AREA.--260 sq mi, approximately.
PERIOD OF RECORD.--March to September 1971.
EXTREMES.--1971:
Water temperatures: Maximum, 19.5° C Aug. 3, 8, 9.
Period of record:
Water temperature (1971): Maximum, 19.5° C Aug. 3, 8, 9.
REMARKS.--Start of record Mar. 21, 1971.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	3.5	2.0
22	---	---	---	---	---	---	---	---	---	---	3.5	2.0
23	---	---	---	---	---	---	---	---	---	---	3.5	2.0
24	---	---	---	---	---	---	---	---	---	---	3.5	3.5
25	---	---	---	---	---	---	---	---	---	---	4.0	3.5
26	---	---	---	---	---	---	---	---	---	---	4.0	4.0
27	---	---	---	---	---	---	---	---	---	---	4.0	3.5
28	---	---	---	---	---	---	---	---	---	---	3.5	3.5
29	---	---	---	---	---	---	---	---	---	---	4.5	3.5
30	---	---	---	---	---	---	---	---	---	---	4.5	4.0
31	---	---	---	---	---	---	---	---	---	---	4.0	3.5
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

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

13341000 NORTH FORK CLEARWATER RIVER AT AHSAHKA, IDAHO

LOCATION.--Lat 46°30'16", long 116°19'10", in NE¼SW¼ sec.34, T.37 N., R.1 E., Clearwater County, temperature recorder on right bank at cableway at Ahsahka, and at mile 0.4.
DRAINAGE AREA.--2,440 sq mi, approximately.
PERIOD OF RECORD.--Chemical analyses: August 1959 to August 1960.
Water temperatures: October 1957 to September 1971.
Sediment records: January 1966 to June 1968.
EXTREMES.--1957-71:
Period of record:
Water temperatures (1957-70): Maximum, 29° C Aug. 11-13, 1963; minimum, freezing point on many days during winter months most years.
REMARKS.--Station discontinued Dec. 10.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR	13.5	0.5										

13341050 CLEARWATER RIVER NEAR PECK, IDAHO

LOCATION.--Lat 46°30'00", long 116°23'30", in NE¼ sec.1, T.36 N., R.1 W., Nez Perce County, temperature recorder at gaging station on left bank, 2 miles upstream from Big Canyon Creek, 2.2 miles northeast of Peck, 3 miles downstream from North Fork Clearwater River, and at mile 37.4.
DRAINAGE AREA.--8,040 sq mi, approximately.
PERIOD OF RECORD.--Water temperatures: October 1964 to September 1971.
EXTREMES.--1970-71:
Water temperatures: Maximum, 24.0° C Aug. 2-5; minimum, 0.5° C Dec. 20-22.
Period of record:
Water temperatures (1964-71): Maximum, 25° C Aug. 1, 2, 1965, July 28, 1968; minimum, freezing point on many days during January and February 1966.
REMARKS.--No record Jan. 31 to Feb. 18, Apr. 6-21.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

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

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

13342500 CLEARWATER RIVER AT SPALDING, IDAHO

LOCATION.--Lat 46°26'55", long 116°49'35", in Indian allotment 198, NE¼SW¼ sec.22, T.36 N., R.4 W., Nez Perce County, at gaging station on left bank, 0.4 mile downstream from Lapwai Creek, 0.5 mile west of Spalding Post Office, 3,100 ft downstream from bridge on U.S. Highway 12, and at mile 11.6.
DRAINAGE AREA.--9,570 sq mi, approximately.
PERIOD OF RECORD.--Chemical analyses: August 1959 to August 1960, October 1967 to September 1971.
Water temperatures: October 1959 to September 1971.
EXTREMES.--1970-71:
Water temperatures: Maximum, 25.5° C Aug. 5, 7-12; minimum, 0.5° C several days during December, January, and February.
Period of record:
Water temperatures: Maximum, 28° C Aug. 13, 1963; minimum, freezing point on several days during winter months of most years.
REMARKS.--Temperature readings are obtained A.M. and P.M. at bridge 3,100 ft upstream from gaging station.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
1	13.0	14.0	5.0	5.5	1.5	3.0	0.5	0.5	3.0	3.5	1.5	3.0
2	12.0	14.0	4.5	5.0	3.0	3.0	0.5	0.5	3.0	3.5	1.0	1.5
3	13.0	13.5	4.5	5.0	1.5	2.0	1.0	1.0	3.0	3.0	1.5	3.0
4	13.0	14.0	4.0	5.0	1.5	2.0	0.5	0.5	1.5	3.0	1.5	1.5
5	12.0	13.0	4.0	4.5	0.5	1.5	0.5	1.0	1.5	2.0	1.0	2.0
6	11.5	13.0	3.5	4.0	1.0	1.0	0.5	0.5	1.0	1.0	1.5	2.0
7	11.5	12.0	5.0	5.0	1.5	1.5	0.5	0.5	1.0	1.5	2.0	3.0
8	10.0	11.0	5.5	5.5	2.0	2.0	0.5	1.0	1.0	1.0	1.5	2.0
9	10.0	10.0	5.5	5.5	1.5	2.0	0.5	0.5	0.5	0.5	1.5	2.0
10	9.5	10.0	5.5	5.5	2.0	2.0	0.5	0.5	0.5	1.0	3.0	4.5
11	9.5	10.5	5.0	5.5	1.5	2.0	0.5	0.5	1.0	1.5	4.0	4.5
12	9.5	10.5	5.0	5.5	2.0	3.0	0.5	0.5	1.5	3.5	4.0	4.5
13	9.0	10.0	4.5	6.0	1.5	2.0	0.5	0.5	2.0	4.5	4.5	4.5
14	9.5	10.5	5.0	5.5	1.5	2.0	0.5	0.5	4.5	4.5	4.0	4.5
15	9.0	9.5	4.5	5.5	2.0	2.0	0.5	0.5	4.5	4.5	4.0	5.0
16	9.0	9.5	5.5	5.5	1.0	1.0	0.5	0.5	4.5	5.0	4.5	4.5
17	8.5	9.5	5.0	5.5	1.0	1.5	0.5	0.5	4.5	5.0	4.0	5.0
18	7.0	8.5	4.5	5.0	1.0	2.0	0.5	1.0	3.5	4.0	4.0	4.5
19	7.0	8.0	5.0	5.5	1.0	1.5	1.0	1.5	4.0	4.5	4.0	5.0
20	8.0	8.5	5.0	5.5	1.0	1.5	1.0	1.0	4.0	4.5	4.5	5.0
21	8.0	8.5	3.5	3.5	1.0	1.5	1.0	1.0	3.5	4.0	4.5	5.0
22	8.5	8.5	1.5	3.0	1.0	1.5	1.0	1.0	4.0	4.5	5.0	5.0
23	8.0	8.5	1.5	2.0	0.5	1.0	1.0	1.0	4.0	4.5	4.5	4.5
24	8.0	8.0	2.0	3.0	1.0	1.5	1.0	1.5	4.5	5.0	5.0	6.0
25	7.0	8.0	1.0	1.0	1.0	1.0	1.5	2.0	3.5	4.0	5.5	5.5
26	7.0	8.0	1.5	1.5	0.5	1.0	2.0	3.5	.0	3.5	5.5	5.5
27	6.0	6.5	2.0	2.0	1.0	1.0	3.0	3.5	.5	1.5	5.0	5.5
28	6.5	7.0	1.5	3.0	1.0	.5	3.0	4.0	1.0	1.5	5.0	5.5
29	5.5	6.5	2.0	3.0	0.5	1.0	3.5	3.5	---	---	5.0	6.5
30	5.5	6.5	2.0	2.0	0.5	1.0	3.0	3.0	---	---	5.5	6.5
31	5.0	6.5	---	---	1.0	1.0	3.5	4.5	---	---	5.5	6.0
MONTH	13.0	6.5	5.5	1.0	3.0	1.0	3.5	0.5	4.5	0.5	5.5	1.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
1	5.5	6.0	8.5	8.5	6.5	7.0	12.0	13.0	23.0	23.5	19.0	19.0
2	5.5	7.0	7.0	9.0	6.5	7.0	13.0	15.0	22.0	25.0	18.5	18.5
3	5.5	6.5	8.0	8.5	7.0	9.0	14.5	15.0	24.0	24.0	16.5	18.0
4	5.5	7.0	6.0	8.0	8.0	8.0	14.5	15.0	23.5	23.5	15.5	16.0
5	5.5	6.5	7.0	8.0	7.0	8.5	14.5	14.5	23.0	25.5	15.5	16.0
6	5.0	7.0	8.0	8.0	8.5	9.0	14.0	14.0	24.5	25.0	14.5	15.5
7	6.5	7.0	7.0	8.0	8.5	9.0	13.5	14.5	24.5	25.5	15.5	16.0
8	6.5	7.0	8.0	8.0	8.0	8.5	14.0	14.5	24.5	25.5	14.5	18.0
9	6.5	7.0	7.0	8.5	8.0	10.0	14.5	15.0	25.0	25.5	18.0	18.5
10	6.0	7.0	9.0	9.0	9.5	9.5	14.0	14.0	24.5	25.5	18.0	19.0
11	6.0	6.0	8.0	9.0	10.0	10.0	13.5	14.5	24.5	25.5	16.5	19.0
12	5.5	6.0	8.0	9.5	9.0	9.5	14.0	14.5	25.0	25.5	18.0	18.5
13	5.5	7.0	8.0	9.0	10.0	11.5	13.5	14.5	24.5	25.0	18.5	18.5
14	6.5	6.5	8.0	8.0	10.5	11.0	14.0	15.0	24.5	25.0	15.0	15.5
15	6.5	7.0	7.0	8.0	10.0	10.5	16.0	16.5	24.5	25.0	15.0	16.0
16	6.5	7.0	7.0	7.0	9.5	10.0	16.0	16.5	24.5	25.0	15.0	15.5
17	6.5	7.0	7.0	7.0	10.0	11.0	16.0	17.0	24.0	24.5	15.0	15.5
18	6.0	6.0	6.5	8.0	10.5	10.5	16.0	17.0	23.0	23.5	14.5	15.5
19	6.5	7.0	7.0	7.0	9.5	11.0	16.0	17.0	23.5	24.5	14.5	15.5
20	7.0	7.0	7.0	8.0	10.5	11.0	18.0	18.0	24.0	24.5	14.5	15.5
21	6.5	7.0	6.5	8.0	12.0	13.0	18.5	19.0	24.5	25.0	14.0	14.0
22	6.5	7.0	7.0	8.0	12.0	13.0	20.0	20.0	21.0	24.5	13.0	14.0
23	6.5	7.0	8.0	10.0	13.0	13.0	20.0	20.5	20.5	20.5	13.5	14.5
24	6.0	6.5	8.5	10.0	12.0	13.0	21.0	21.5	19.0	19.5	13.5	14.0
25	6.0	7.0	8.5	9.0	11.5	12.0	20.5	21.0	19.0	20.0	13.5	14.0
26	6.5	7.0	8.0	10.5	11.5	11.5	21.0	21.5	19.0	19.5	13.0	14.0
27	7.0	7.0	10.5	10.5	12.0	12.0	20.5	21.0	19.0	20.0	13.0	13.5
28	6.5	8.0	10.0	10.5	11.5	11.5	21.0	21.5	20.0	20.0	11.0	13.0
29	7.0	8.0	9.5	9.5	11.0	12.0	21.0	21.0	19.5	20.0	10.0	11.0
30	7.0	8.0	8.5	8.5	11.5	13.0	20.5	21.5	20.5	24.0	10.0	11.5
31	---	---	6.5	7.0	---	---	23.0	23.5	21.5	21.5	---	---
MONTH	7.0	6.0	10.5	7.0	13.0	7.0	23.0	13.0	25.0	19.5	19.0	11.0
YEAR	25.0	0.5										

13343500 SNAKE RIVER NEAR CLARKSTON, WASH.
(International hydrologic decade station)

LOCATION.--Lat 46°25'30", long 117°10'30", in SE¼SE¼ sec.21, T.11 N., R.45 E., Asotin County, at gaging station 7 miles downstream from Clarkston, and at mile 132.9.

DRAINAGE AREA.--103,200 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: November 1951 to February 1956, October 1966 to September 1971.

REMARKS.--Each analysis presented below represents a composit of four samples taken at cableway cross section except for samples on Aug. 31 and Sept. 24.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
OCT.								
28...	0930	29500	18	28	11	28	3.5	146
DEC.								
09...	1020	50200	20	27	10	23	3.1	133
JAN.								
17...	1640	60800	22	25	9.2	19	3.3	114
MAR.								
03...	--	--	23	24	8.3	18	3.0	119
APR.								
28...	1315	101000	5.8	16	4.7	8.7	2.3	67
JUNE								
18...	1045	161000	12	10	2.5	6.0	1.5	47
AUG.								
11...	1200	26200	12	18	5.1	12	1.8	87
31...	1500	23000	--	20	6.2	16	2.1	100
SEP.								
24...	1215	26400	--	26	9.3	25	3.2	128

DATE	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)
OCT.									
28...	0	40	13	.4	--	.030	215	17700	115
DEC.									
09...	0	34	11	.5	--	.060	195	26400	109
JAN.									
17...	0	29	12	.4	--	--	179	34100	101
MAR.									
03...	0	24	10	.7	.50	.070	170	--	94
APR.									
28...	0	12	4.9	.3	.90	--	92	25100	59
JUNE									
18...	0	8.0	2.4	.2	.21	.080	67	29100	35
AUG.									
11...	0	16	4.8	.3	.05	--	113	7990	66
31...	0	22	7.6	.5	.06	.060	--	--	75
SEP.									
24...	0	39	11	.6	.31	.89	--	--	100

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	TEMPERATURE (DEG C)	AIR TEMPERATURE (DEG C)
OCT.								
28...	0	1.1	357	8.1	10	--	--	--
DEC.								
09...	0	1.0	323	7.9	5	--	5.0	--
JAN.								
17...	7	.8	290	7.7	20	--	2.8	--
MAR.								
03...	0	.8	262	7.3	--	--	--	--
APR.								
28...	4	.5	149	7.5	--	--	9.0	--
JUNE								
18...	0	.4	102	7.4	--	--	15.5	--
AUG.								
11...	0	.6	178	7.4	--	--	--	--
31...	0	.8	226	7.8	20	1	21.0	17.5
SEP.								
24...	0	1.1	322	7.9	10	1	17.5	23.0

DATE	TIME	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)
AUG.						
31...	1500	22000	--	8.4	96	4.8
SEP.						
24...	1215	1600	47	9.6	103	--

DATE	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED VANADIUM (V) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED ZINC (ZN) (UG/L	DISSOLVED MERCURY (HG) (UG/L)
AUG.									
31...	20	0	0	1	4.2	1	0	90	.0
SEP.									
24...	10	--	--	--	--	10	0	20	.1

DATE	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)
AUG.						
31...	1	<1	<1	30	6	<1
SEP.						
24...	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
HENRYS FORK BASIN												
13055000 - TETON RIVER NEAR ST. ANTHONY, IDAHO (LAT 43 55 38 LONG 111 36 55)												
JAN., 1971												
08...	1600	367	18	45	13	3.5	1.4	163	24	7.2	1.9	.3
MAY												
20...	1600	1630	13	30	7.7	2.5	.9	132	0	8.3	1.8	.0
AUG.												
17...	1415	971	16	41	13	4.4	1.3	197	0	6.8	2.0	.8
13056500 - HENRYS FORK NEAR REXBURG, IDAHO (LAT 43 49 34 LONG 111 54 15)												
MAR., 1971												
09...	1130	1920	34	18	4.6	15	2.3	108	0	4.2	5.9	2.1
APR.												
15...	1245	2530	13	21	6.4	12	3.2	109	--	4.0	5.3	1.4
JULY												
30...	1045	1850	24	26	7.4	8.2	1.7	133	0	4.3	3.5	1.0
13056600 - TEXAS SLOUGH NEAR REXBURG, IDAHO (LAT 43 47 17 LONG 111 53 44)												
APR., 1971												
02...	1600	83	14	60	16	13	2.7	229	--	50	10	.4
JULY												
09...	1230	326	13	52	13	11	2.0	206	0	30	7.2	.2
SEP.												
03...	1210	386	13	47	12	8.5	2.0	155	0	30	6.9	.7
WILLOW CREEK BASIN												
13057500 - GRAYS LAKE OUTLET NEAR HERMAN IDAHO (LAT 43 08 05 LONG 111 29 40)												
OCT., 1970												
21...	1025	.52	32	36	13	9.0	2.3	174	0	6.0	6.5	.2
MAY , 1971												
10...	1140	70	15	34	11	8.9	2.5	167	0	9.5	4.7	.1
JUNE												
07...	1100	60	12	48	18	11	1.9	255	0	11	6.1	.1
BLACKFOOT RIVER BASIN												
13063000 - BLACKFOOT RIVER AB RES NR HENRY IDAHO (LAT 42 49 00 LONG 111 30 35)												
OCT., 1970												
21...	1435	79	11	56	13	4.5	1.1	232	0	10	4.0	.2
MAY , 1971												
05...	1200	1920	11	33	5.3	3.1	1.8	131	0	5.8	1.9	.1
JULY												
07...	1220	265	10	54	11	3.9	.3	235	0	7.5	2.8	.1
SNAKE RIVER BASIN												
13069540 - DANIELSON CR NR SPRINGFIELD IDAHO (LAT 43 03 32 LONG 112 41 24)												
MAY , 1971												
07...	2120	52	28	45	24	34	5.2	176	0	73	46	.5
SEP.												
29...	1230	66	27	60	21	34	4.7	274	0	62	26	.3
PORTNEUF RIVER BASIN												
13073000 - PORTNEUF RIVER AT TOPAZ, IDAHO (LAT 42 37 30 LONG 112 05 20)												
OCT., 1970												
22...	1635	139	26	73	43	38	10	434	0	49	38	.2
JUNE, 1971												
08...	1630	585	16	53	20	14	4.2	222	0	29	14	.3
JULY												
08...	1450	261	21	64	30	25	6.7	378	0	37	27	.3
13075000 - MARSH CREEK NEAR MCCAMMON IDAHO (LAT 42 37 50 LONG 112 13 30)												
OCT., 1970												
23...	1130	102	37	77	36	57	9.1	407	0	48	55	.3
MAY , 1971												
03...	1330	206	21	58	22	33	6.0	270	0	29	41	.2
JULY												
09...	0900	76	33	62	32	44	7.9	375	0	38	45	.4

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
HENRYS FORK BASIN												
13055000 - TETON RIVER NEAR ST. ANTHONY, IDAHO (LAT 43 55 38 LONG 111 36 55)												
JAN., 1971												
08...	1.0	--	.030	200	198	170	0	.1	4	305	8.4	.0
MAY												
20...	.25	.030	.090	130	572	110	0	.1	5	220	7.9	8.5
AUG.												
17...	.32	.030	.060	184	482	160	0	.2	6	307	8.0	12.5
13056500 - HENRYS FORK NEAR REXBURG, IDAHO (LAT 43 49 34 LONG 111 54 15)												
MAR., 1971												
09...	.10	--	.050	140	726	64	0	.8	33	196	7.9	1.5
APR.												
15...	.40	.040	.190	122	833	79	0	.6	24	212	7.8	8.0
JULY												
30...	.22	.040	.100	143	714	95	0	.4	15	204	7.9	18.5
13056600 - TEXAS SLOUGH NEAR REXBURG, IDAHO (LAT 43 47 17 LONG 111 53 44)												
APR., 1971												
02...	.40	.050	.090	261	63.0	220	25	.4	11	473	7.6	8.0
JULY												
08...	.50	.010	.070	232	205	180	14	.4	11	368	7.9	14.5
SEP.												
23...	.43	.030	.070	213	222	170	15	.3	10	368	7.7	12.0
WILLOW CREEK BASIN												
13057500 - GRAYS LAKE OUTLET NEAR HERMAN IDAHO (LAT 43 08 05 LONG 111 29 40)												
OCT., 1970												
21...	.30	--	.280	192	.26	144	1	.3	12	288	7.9	--
MAY , 1971												
10...	.18	.100	.130	169	31.9	130	0	.3	13	281	8.3	14.0
JUNE												
07...	.32	.080	.090	235	38.1	190	0	.3	11	417	7.5	14.5
BLACKFOOT RIVER BASIN												
13063000 - BLACKFOOT RIVER AB RES NR HENRY IDAHO (LAT 42 49 00 LONG 111 30 35)												
OCT., 1970												
21...	.10	--	.030	214	46.1	193	3	.1	5	372	8.2	5.0
MAY , 1971												
05...	.05	.100	.650	127	658	100	0	.1	6	214	8.0	6.5
JULY												
07...	.02	.030	.060	205	147	180	0	.1	5	351	7.9	14.5
SNAKE RIVER BASIN												
13069540 - DANIELSON CR NR SPRINGFIELD IDAHO (LAT 43 03 32 LONG 112 41 24)												
MAY , 1971												
07...	.96	.020	.030	347	48.7	210	67	1.0	25	608	8.0	8.0
SEP.												
29...	.83	.010	.050	373	66.5	240	12	1.0	23	605	7.8	11.0
PORTNEUF RIVER BASIN												
13073000 - PORTNEUF RIVER AT TOPAZ, IDAHO (LAT 42 37 30 LONG 112 05 20)												
OCT., 1970												
22...	.25	--	.050	491	184	359	3	.9	18	800	7.7	--
JUNE, 1971												
08...	.42	.050	.140	262	414	210	33	.4	12	495	7.9	16.5
JULY												
08...	.48	.050	.060	399	281	280	0	.6	16	649	7.9	20.0
13075000 - MARSH CREEK NEAR MCCAMMON IDAHO (LAT 42 37 50 LONG 112 13 30)												
OCT., 1970												
23...	.32	--	.070	521	143	340	6	1.3	26	819	7.9	11.0
MAY , 1971												
03...	.71	.090	.360	346	192	240	14	.9	23	587	8.0	16.5
JULY												
09...	1.0	.060	.150	451	92.5	290	0	1.1	24	710	7.9	15.5

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
PORTNEUF RIVER BASIN												
13075500 - PORTNEUF RIVER AT POCATELLO, IDAHO (LAT 42 52 20 LONG 112 28 05)												
OCT., 1970												
06...	0930	160	33	66	34	45	11	372	0	40	45	.8
APR., 1971												
08...	1435	860	21	57	23	22	5.7	284	--	29	24	.3
JULY												
09...	1215	243	24	43	25	30	6.4	312	0	30	32	.2
13075810 - BATISE SPRINGS NEAR POCATELLO IDAHO (LAT 42 54 55 LONG 112 31 19)												
OCT., 1970												
06...	1000	32	45	76	27	52	10	254	0	114	50	.5
JLY, 1971												
01...	1045	--	42	99	32	65	13	332	8	170	56	.6
EP.												
29...	0700	7.2	42	100	33	60	12	313	0	170	52	.4
13075920 - WIDE CREEK NEAR POCATELLO, IDAHO (LAT 42 57 30 LONG 112 34 10)												
AUG., 1971												
25...	1210	44	28	51	16	22	3.8	208	0	44	23	1.0
SEP.												
29...	0855	61	27	60	16	18	3.5	227	0	46	15	.7
13075970 - KINNEY CREEK NEAR FORT HALL, IDAHO (LAT 42 59 10 LONG 112 35 05)												
AUG., 1971												
24...	1940	27	27	55	17	23	3.5	236	0	44	24	.9
SEP.												
28...	1220	29	27	64	17	21	3.4	232	0	53	19	.7
13075981 - SPRING C SOUTH OF FERRY BUTTE NR BLACKFOOT IDAHO (LAT 43 05 45 LONG 112 30 15)												
OCT., 1970												
06...	1500	291	28	60	16	21	3.9	239	0	50	17	.3
JUNE, 1971												
30...	2100	331	26	42	16	22	3.5	164	0	40	21	.6
SEP.												
28...	0915	352	25	57	15	20	2.9	217	0	30	17	.8
13075985 - SPRING CREEK NEAR FORT HALL, IDAHO (LAT 43 00 09 LONG 112 36 01)												
SEP., 1971												
28...	1045	548	25	63	16	21	3.3	248	0	47	16	1.0
13076200 - BANNOCK CREEK NR POCATELLO, IDAHO (LAT 42 53 10 LONG 112 38 30)												
JAN., 1971												
18...	1845	230	14	42	8.6	9.1	8.9	169	0	5.8	10	.3
AUG.												
06...	1340	32	26	59	25	34	6.7	302	0	29	32	.7
SEP.												
29...	0745	12	22	56	23	22	4.3	300	0	18	25	.6
SNAKE RIVER BASIN												
13076300 - ABERDEEN WASTEWAY NR ABERDEEN IDAHO (LAT 42 55 27 LONG 112 48 38)												
MAY , 1971												
07...	2030	100	15	40	10	19	6.7	172	0	35	10	.6
SEP.												
29...	1345	72	18	56	20	38	6.7	227	0	95	13	.6
13076600 - REUGER SPRINGS NEAR AMERICAN FALLS, IDAHO (LAT 42 46 00 LONG 112 52 55)												
MAY , 1971												
08...	1445	18	37	54	25	42	5.9	217	0	92	68	.4
SEP.												
29...	1600	17	37	74	24	41	5.5	253	0	91	61	.8
13077000 - SNAKE RIVER AT NEELEY, IDAHO (LAT 42 46 06 LONG 112 52 42)												
MAY , 1971												
08...	1415	27100	13	48	14	15	2.9	193	0	45	13	.6
JULY												
03...	1255	21500	13	43	11	13	2.6	176	0	28	9.8	.6
SEP.												
29...	1500	8760	2.5	43	13	15	2.9	192	0	38	11	.9

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
PORTNEUF RIVER BASIN												
13075500 - PORTNEUF RIVER AT POCATELLO, IDAHO (LAT 42 52 20 LONG 112 28 05)												
OCT., 1970												
06...	3.5	--	--	459	190	304	0	1.1	24	738	8.1	9.0
APR., 1971												
08...	1.0	.150	1.1	327	759	240	4	.6	16	547	7.9	10.0
JULY												
09...	.67	.070	.100	347	228	210	0	.9	23	575	7.8	18.0
13075810 - BATISE SPRINGS NEAR POCATELLO IDAHO (LAT 42 54 55 LONG 112 31 19)												
OCT., 1970												
06...	3.3	--	1.2	512	43.6	300	82	1.3	27	791	7.5	14.0
JULY, 1971												
01...	4.3	2.1	2.1	660	--	380	120	1.5	26	969	8.4	16.0
SEP.												
29...	3.0	1.7	1.6	642	12.5	370	130	1.3	25	971	7.2	17.0
13075920 - WIDE CREEK NEAR POCATELLO, IDAHO (LAT 42 57 30 LONG 112 34 10)												
AUG., 1971												
25...	.63	.030	.050	294	34.9	190	23	.7	19	478	8.0	14.0
SEP.												
29...	.77	.000	.050	301	49.6	220	29	.5	15	482	7.8	11.0
13075970 - KINNEY CREEK NEAR FORT HALL, IDAHO (LAT 42 59 10 LONG 112 35 05)												
AUG., 1971												
24...	1.0	.030	.060	315	23.0	210	14	.7	19	522	7.9	18.0
SEP.												
28...	1.0	.010	.050	324	25.4	230	39	.6	16	518	7.9	12.0
13075981 - SPRING C SOUTH OF FERRY BUTTE NR BLACKFOOT IDAHO (LAT 43 05 45 LONG 112 30 15)												
OCT., 1970												
06...	1.3	--	.030	311	218	216	20	.6	17	494	8.0	11.5
JUNE, 1971												
30...	.99	.020	.040	256	229	170	36	.7	21	374	7.9	11.5
SEP.												
28...	.85	.010	.050	278	264	200	26	.6	17	490	7.9	12.0
13075985 - SPRING CREEK NEAR FORT HALL, IDAHO (LAT 43 00 09 LONG 112 36 01)												
SEP., 1971												
28...	.88	.010	.050	318	471	220	20	.6	17	515	8.0	11.0
13076200 - BANNOCK CREEK NR POCATELLO, IDAHO (LAT 42 53 10 LONG 112 38 30)												
JAN., 1971												
18...	.50	--	.340	180	112	140	1	.3	12	309	7.5	.5
AUG.												
06...	.83	.200	.300	365	31.5	250	3	.9	22	609	8.1	23.0
SEP.												
29...	.09	.020	.080	319	10.3	230	0	.6	17	440	8.1	9.0
SNAKE RIVER BASIN												
13076300 - ABERDEEN WASTEWAY NR ABERDEEN IDAHO (LAT 42 55 27 LONG 112 48 38)												
MAY , 1971												
07...	1.9	.260	.400	230	62.1	140	0	.7	22	379	8.2	8.0
SEP.												
29...	1.8	.190	.290	367	71.3	220	36	1.1	26	599	6.9	12.0
13076600 - REUGER SPRINGS NEAR AMERICAN FALLS, IDAHO (LAT 42 46 00 LONG 112 52 55)												
MAY , 1971												
08...	1.3	.030	.040	437	21.2	240	60	1.2	27	723	7.8	8.0
SEP.												
29...	1.3	.040	.080	465	21.3	280	76	1.1	24	748	7.7	15.0
13077000 - SNAKE RIVER AT NEELEY, IDAHO (LAT 42 46 06 LONG 112 52 42)												
MAY , 1971												
08...	.24	.020	.040	248	18100	180	19	.5	15	410	8.2	8.0
JULY												
03...	.36	.100	.140	209	12100	150	8	.5	15	329	7.8	17.0
SEP.												
29...	.34	.010	.090	222	5250	160	3	.5	17	382	8.1	15.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
SNAKE RIVER BASIN												
13077650 - ROCK CREEK NEAR AMERICAN FALLS, IDAHO (LAT 42 39 10 LONG 113 01 00)												
JAN., 1971												
18...	1645	529	19	41	11	7.5	11	177	0	7.2	10	.2
AUG.												
10...	1815	6.4	38	47	54	66	20	410	0	36	84	.6
RAFT RIVER BASIN												
13078000 - RAFT RIVER AT PETERSON RANCH NR BRIDGE, IDAHO (LAT 42 04 00 LONG 113 26 50)												
JAN., 1971												
20...	1130	198	19	41	9.8	37	10	156	0	22	54	.5
APR.												
26...	1715	237	33	64	15	77	11	261	--	39	93	1.0
MAY												
26...	1240	122	29	58	14	71	5.7	255	0	29	78	.6
13079900 - RAFT RIVER AT YALE, IDAHO (LAT 42 34 11 LONG 113 13 42)												
JAN., 1971												
21...	1320	25	25	73	29	89	19	197	0	97	170	.4
SEP.												
07...	1140	2.5	52	68	35	89	18	324	0	67	130	.6
GOOSE CREEK BASIN												
13082500 - GOOSE CR AB TRAPPER CR NR OAKLEY IDAHO (LAT 42 07 30 LONG 113 56 20)												
JAN., 1971												
26...	0955	82	33	34	6.3	12	5.7	130	0	10	11	.3
MAY												
27...	1022	195	36	31	5.6	10	5.2	122	0	2.8	9.6	.2
SEP.												
08...	1030	15	35	48	9.5	17	6.7	201	0	23	19	.5
13083000 - TRAPPER CREEK NR OAKLEY, IDAHO (LAT 42 10 10 LONG 113 58 20)												
JAN., 1971												
26...	1200	16	31	31	3.9	6.3	3.6	119	0	4.5	5.0	.2
MAY												
27...	1305	52	37	18	2.4	6.2	3.6	41	0	18	5.6	.1
SEP.												
08...	1250	12	26	37	4.6	5.9	2.8	150	0	5.3	4.0	.4
TRIBUTARIES TO SNAKE RIVER												
13089500 - DEVILS WASHBOWL SPRING NR KIMBERLY, IDAHO (LAT 42 35 18 LONG 114 20 45)												
MAR., 1971												
24...	1900	16	--	--	--	--	--	263	--	72	--	.4
SNAKE RIVER BASIN												
13090000 - SNAKE RIVER NEAR KIMBERLY, IDAHO (LAT 42 35 28 LONG 114 21 34)												
JULY, 1971												
27...	1100	506	23	47	19	36	4.6	231	0	51	25	.5
AUG.												
31...	1358	980	25	47	19	35	4.6	237	0	48	24	.8
13090900 - WARM SPRINGS NR TWIN FALLS IDAHO (LAT 42 36 54 LONG 114 27 52)												
DEC., 1970												
11...	1230	--	42	58	22	36	6.9	235	0	56	45	--
BLUE LAKES SPRING BASIN												
13091000 - BLUE LAKES SPRING NEAR TWIN FALLS, IDAHO (LAT 42 36 53 LONG 114 28 06)												
MAR., 1971												
25...	1440	209	41	58	22	35	6.7	234	--	61	44	.4
AUG.												
31...	1710	230	40	59	20	39	6.4	238	0	58	46	.1
ROCK CREEK BASIN												
13092730 - ROCK C AT TWIN FALLS IDAHO (LAT 42 32 57 LONG 114 28 27)												
JAN., 1971												
21...	1630	240	40	35	9.5	19	5.9	135	0	30	12	.4
MAR.												
26...	1440	247	41	23	6.2	17	5.1	108	--	31	10	.3
SEP.												
24...	1225	172	38	76	26	44	5.7	298	0	110	25	.9

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
SNAKE RIVER BASIN												
13077650 - ROCK CREEK NEAR AMERICAN FALLS, IDAHO (LAT 42 39 10 LONG 113 01 00)												
JAN., 1971												
18...	1.5	--	.220	200	286	150	5	.3	9	318	7.5	2.0
AUG.												
10...	.66	.040	.100	550	9.50	340	3	1.6	28	926	8.0	25.0
RAFT RIVER BASIN												
13078000 - RAFT RIVER AT PETERSON RANCH NR BRIDGE, IDAHO (LAT 42 04 00 LONG 113 26 50)												
JAN., 1971												
20...	.60	--	.260	270	144	140	12	1.3	34	471	7.6	1.0
APR.												
26...	.40	.180	1.2	464	297	220	7	2.3	42	755	7.6	5.0
MAY												
26...	.05	.070	.200	411	135	200	0	2.2	42	666	7.8	12.5
13079900 - RAFT RIVER AT YALE, IDAHO (LAT 42 34 11 LONG 113 13 42)												
JAN., 1971												
21...	.60	--	.360	600	40.5	300	138	2.2	37	996	7.6	1.0
SEP.												
07...	1.3	.090	.130	625	4.32	310	48	2.2	37	1040	7.6	11.0
GOOSE CREEK BASIN												
13082500 - GOOSE CR AB TRAPPER CR NR OAKLEY IDAHO (LAT 42 07 30 LONG 113 56 20)												
JAN., 1971												
26...	.60	--	.160	180	39.9	110	3	.5	18	262	7.5	1.0
MAY												
27...	.33	.100	.350	162	85.3	100	0	.4	17	256	7.5	14.0
SEP.												
08...	.07	.050	.070	258	10.7	160	0	.6	18	398	7.9	12.5
13083000 - TRAPPER CREEK NR OAKLEY, IDAHO (LAT 42 10 10 LONG 113 58 20)												
JAN., 1971												
26...	.10	--	.100	140	6.05	94	0	.3	12	208	7.7	5.5
MAY												
27...	.35	.080	.240	113	15.9	55	21	.4	19	146	7.5	12.5
SEP.												
08...	.04	.040	.090	160	5.36	110	0	.2	10	246	8.1	12.0
TRIBUTARIES TO SNAKE RIVER												
13089500 - DEVILS WASHBOWL SPRING NR KIMBERLY, IDAHO (LAT 42 35 18 LONG 114 20 45)												
MAY, 1971												
24...	1.6	--	--	--	--	--	--	--	--	676	8.1	13.0
SNAKE RIVER BASIN												
13090000 - SNAKE RIVER NEAR KIMBERLY, IDAHO (LAT 42 35 28 LONG 114 21 34)												
JULY, 1971												
27...	1.4	.050	.100	326	445	200	6	1.1	28	514	7.9	20.0
AUG.												
31...	1.3	.070	.120	326	863	200	1	1.1	27	529	7.9	16.5
13090900 - WARM SPRINGS NR TWIN FALLS IDAHO (LAT 42 36 54 LONG 114 27 52)												
DEC., 1970												
11...	2.3	.033	.036	384	--	235	42	1.0	24	634	7.9	--
BLUE LAKES SPRING BASIN												
13091000 - BLUE LAKES SPRING NEAR TWIN FALLS, IDAHO (LAT 42 36 53 LONG 114 28 06)												
MAR., 1971												
25...	1.1	.040	.070	388	219	240	43	1.0	24	619	8.1	6.0
AUG.												
31...	1.7	.030	.060	393	244	230	34	1.1	26	622	7.8	15.0
ROCK CREEK BASIN												
13092730 - ROCK C AT TWIN FALLS IDAHO (LAT 42 32 57 LONG 114 28 27)												
JAN., 1971												
21...	1.5	--	.160	220	143	130	19	.7	24	334	7.5	4.5
MAR.												
26...	1.1	.140	.700	192	128	83	0	.8	29	276	7.7	3.0
SEP.												
24...	1.9	.080	.190	481	223	300	52	1.1	24	756	7.8	12.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
ROCK CREEK BASIN												
13093100 - ROCK CR AT MOUTH NR TWIN FALLS IDAHO (LAT 42 37 54 LONG 114 32 15)												
OCT., 1970												
19...	1740	302	37	80	32	51	7.7	335	0	131	39	.8
TRIBUTARIES TO SNAKE RIVER												
13093398 - CRYSTAL SPRINGS TRIBUTARY NO 8 NR BUHL, IDAHO (LAT 42 39 42 LONG 114 38 59)												
MAR., 1971												
29...	1240	16	--	--	--	--	--	236	--	65	--	.6
SEP.												
30...	1615	32	37	55	25	33	4.5	248	0	55	33	.4
13093500 - CEDAR DRAW NEAR FILER, IDAHO (LAT 42 37 25 LONG 114 39 12)												
FEB., 1971												
22...	1545	23	55	61	42	89	5.6	337	0	140	55	.9
SEP.												
24...	1015	113	26	62	26	48	4.1	285	0	91	25	.8
DEEP CREEK BASIN												
13095000 - DEEP CREEK NEAR BUHL, IDAHO (LAT 42 37 05 LONG 114 50 40)												
FEB., 1971												
22...	1430	16	63	76	39	73	6.6	343	0	140	46	1.1
SEP.												
15...	1150	98	33	73	26	34	5.3	313	0	82	29	.9
13095175 - BRIGGS CREEK AT HEAD NR FILER, IDAHO (LAT 42 40 26 LONG 114 48 30)												
MAR., 1971												
30...	0900	111	--	--	--	--	--	182	--	40	--	.7
BOX CANYON SPRINGS BASIN												
13095500 - BOX CANYON SPRINGS NEAR WENDELL, IDAHO (LAT 42 42 25 LONG 114 48 45)												
JUNE, 1971												
03...	1700	398	35	34	16	22	4.8	183	0	36	17	.5
SALMON FALLS CREEK BASIN												
13108150 - SALMON FALLS CREEK NEAR HAGERMAN, IDAHO (LAT 42 41 47 LONG 114 51 15)												
JAN., 1971												
18...	1450	703	25	48	11	26	10	177	0	42	18	.6
MAR.												
22...	1455	141	51	72	29	69	8.5	261	--	170	56	1.0
JULY												
26...	1525	68	48	52	27	64	8.3	282	0	130	52	.9
MUD LAKE-LOST RIVER BASINS												
13112000 - CAMAS CREEK AT CAMAS, IDAHO (LAT 44 00 10 LONG 112 13 12)												
MAY , 1971												
25...	1630	151	21	19	4.6	3.7	2.1	89	0	4.3	1.7	.1
13114000 - BEAVER CREEK AT CAMAS, IDAHO (LAT 44 00 27 LONG 112 13 25)												
MAY , 1971												
25...	1515	204	18	43	11	8.6	1.6	200	0	9.0	4.5	.2
JULY												
28...	1500	4.7	19	51	14	8.3	1.3	234	0	6.5	4.5	.3
13115000 - MUD LAKE NEAR TERRETON, IDAHO (LAT 43 53 30 LONG 112 21 30)												
MAY , 1971												
27...	1430	--	19	33	8.2	8.1	2.8	151	0	6.8	4.4	.3
13117030 - BIRCH C AT EIGHT-MILE CANYON RD NR RENO, IDAHO (LAT 44 04 49 LONG 112 52 30)												
MAY , 1971												
28...	1115	48	11	43	16	5.5	.9	163	0	55	4.6	.3
13119000 - LITTLE LOST RIVER NR HOWE IDAHO (LAT 43 53 10 LONG 113 06 00)												
MAY , 1971												
22...	1510	176	16	31	12	7.0	1.3	149	0	11	6.5	.1

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
ROCK CREEK BASIN												
13093100 - ROCK CR AT MOUTH NR TWIN FALLS IDAHO (LAT 42 37 54 LONG 114 32 15)												
OCT., 1970												
19...	3.1	--	--	547	446	331	56	1.2	25	835	7.8	13.6
TRIBUTARIES TO SNAKE RIVER												
13093398 - CRYSTAL SPRINGS TRIBUTARY NO 8 NR BUHL, IDAHO (LAT 42 39 42 LONG 114 38 59)												
MAR., 1971												
29...	1.2	--	--	--	--	--	--	--	--	595	8.1	14.5
SEP.												
30...	1.5	.030	.060	372	32.5	240	37	.9	23	617	8.1	14.0
13093500 - CEDAR DRAW NEAR FILER, IDAHO (LAT 42 37 25 LONG 114 39 12)												
FEB., 1971												
22...	.90	--	.100	610	39.2	320	44	2.1	37	962	8.3	10.0
SEP.												
24...	2.1	.090	.270	433	132	260	28	1.3	28	707	7.7	11.0
DEEP CREEK BASIN												
13095000 - DEEP CREEK NEAR BUHL, IDAHO (LAT 42 37 05 LONG 114 50 40)												
FEB., 1971												
22...	.60	--	.050	620	27.3	350	69	1.7	31	962	8.2	7.5
SEP.												
15...	2.0	.080	.120	446	118	290	33	.9	20	726	7.9	12.0
13095175 - BRIGGS CREEK AT HEAD NR FILER, IDAHO (LAT 42 40 26 LONG 114 48 30)												
MAR., 1971												
30...	.80	--	--	--	--	--	--	--	--	429	8.0	14.5
BOX CANYON SPRINGS BASIN												
13095500 - BOX CANYON SPRINGS NEAR WENDELL, IDAHO (LAT 42 42 25 LONG 114 48 45)												
JULY, 1971												
03...	.65	.030	.050	258	277	150	1	.8	23	402	7.6	14.5
SALMON FALLS CREEK BASIN												
13108150 - SALMON FALLS CREEK NEAR HAGERMAN, IDAHO (LAT 42 41 47 LONG 114 51 15)												
JAN., 1971												
18...	1.2	--	.120	280	531	160	15	.9	24	434	7.5	5.0
MAR.												
22...	1.7	.070	.100	593	226	300	85	1.7	33	916	8.0	11.5
JULY												
29...	2.4	.070	.150	552	98.1	240	10	1.8	36	807	8.1	21.0
MUD LAKE-LOST RIVER BASINS												
13112000 - CAMAS CREEK AT CAMAS, IDAHO (LAT 44 00 10 LONG 112 13 12)												
MAY , 1971												
25...	.14	.080	.100	101	41.2	66	0	.2	10	146	7.8	19.5
13114000 - BEAVER CREEK AT CAMAS, IDAHO (LAT 44 00 27 LONG 112 13 25)												
MAY , 1971												
25...	.02	.050	.120	194	107	150	0	.3	11	317	8.1	17.0
JULY												
28...	.00	.020	.050	220	2.79	180	0	.3	9	340	8.2	26.0
13115000 - MUD LAKE NEAR TERRETON, IDAHO (LAT 43 53 30 LONG 112 21 30)												
MAY , 1971												
27...	.23	.060	.100	158	--	120	0	.3	13	257	7.6	15.0
13117030 - BIRCH C AT EIGHT-MILE CANYON RD NR RENO, IDAHO (LAT 44 04 49 LONG 112 52 30)												
MAY , 1971												
26...	.17	.010	.050	217	28.3	170	40	.2	6	344	7.8	11.0
13119000 - LITTLE LOST RIVER NR HOWE IDAHO (LAT 43 53 10 LONG 113 06 00)												
MAY , 1971												
22...	.18	.040	.240	159	75.6	130	5	.3	11	270	8.0	8.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
MUD LAKE-LOST RIVER BASINS												
13127000 - BIG LOST R BELOW MACKEY RES NR MACKEY IDAHO (LAT 43 56 20 LONG 113 38 50)												
MAY , 1971												
21...	.06	.010	.050	150	369	120	8	.2	8	255	8.1	9.5
13132500 - BIG LOST RIVER NR ARCO, IDAHO (LAT 43 35 00 LONG 113 16 10)												
MAY , 1971												
24...	.30	.000	.100	216	81.1	180	12	.2	8	369	8.1	9.5
AUG.												
02...	.34	.010	.050	240	109	200	0	.3	9	400	7.6	15.0
BICKEL SPRING BASIN												
13132790 - BICKEL SPRING NR HAGERMAN, IDAHO (LAT 42 45 29 LONG 114 51 19)												
MAR., 1971												
31...	.70	--	--	--	--	--	--	--	--	339	7.6	14.0
SEP.												
03...	.76	.030	.040	230	11.2	140	0	.6	21	352	8.0	15.0
13133400 - HATCHERY DOMESTIC SPRING NR HAGERMAN IDAHO (LAT 42 45 42 LONG 114 51 20)												
DEC., 1970												
11...	1.1	.016	.030	225	--	141	2	.7	21	359	8.1	--
BIG WOOD RIVER BASIN												
13141000 - BIG WOOD RIVER NR BELLEVUE, IDAHO (LAT 43 19 40 LONG 114 20 25)												
MAY , 1971												
11...	.30	.100	.300	130	906	100	17	.1	6	201	8.1	11.5
JULY												
26...	.10	.020	.060	178	258	140	0	.1	5	133	7.6	18.0
AUG.												
23...	.04	.030	.060	191	18.8	160	0	.1	5	322	7.9	17.5
13141500 - CAMAS CREEK NR BLAINE, IDAHO (LAT 43 19 59 LONG 114 32 27)												
APR., 1971												
26...	.50	.050	.050	82	348	53	0	.4	22	124	7.7	6.5
MAY												
17...	.30	.100	.730	85	243	55	0	.3	17	131	7.6	9.0
AUG.												
23...	1.1	.050	.110	159	6.91	99	0	.5	20	244	7.9	15.5
13152500 - BIG WOOD RIVER NEAR GOODING, IDAHO (LAT 42 53 12 LONG 114 48 08)												
MAY , 1971												
04...	.60	.040	.240	148	895	97	1	.4	17	237	7.5	11.0
AUG.												
02...	.18	.100	.170	218	54.4	160	13	.5	16	350	7.9	22.0
26...	.23	.080	.170	225	83.8	160	3	.5	17	382	7.6	18.5
13152900 - COVE CREEK NR HAGERMAN IDAHO (LAT 42 52 01 LONG 114 52 06)												
MAR., 1971												
22...	1.0	.050	.080	274	47.9	170	0	.8	22	443	8.1	15.0
SEP.												
09...	1.2	.040	.060	273	53.9	170	0	.7	22	425	7.8	15.0
13153713 - SHORT CREEK NR BLISS, IDAHO (LAT 42 52 46 LONG 114 54 26)												
MAR., 1971												
22...	1.1	.050	.090	457	13.8	250	0	1.4	30	748	8.0	14.0
SEP.												
15...	2.3	.050	.080	463	17.8	290	21	1.2	25	737	7.7	14.0
BRUNEAU RIVER BASIN												
13168500 - BRUNEAU RIVER NR HOT SPRING, IDAHO (LAT 42 46 16 LONG 115 43 10)												
APR., 1971												
26...	.50	.080	.080	84	318	41	0	.6	29	118	7.9	5.0
MAY												
11...	.40	.120	.300	93	824	42	0	.5	24	115	7.7	13.0
SEP.												
14...	.10	.010	.040	145	49.7	49	0	1.2	45	198	8.2	18.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
MUD LAKE-LOST RIVER BASINS												
13127000 - BIG LOST R BELOW MACKEY RES NR MACKEY IDAHO (LAT 43 56 20 LONG 113 38 50)												
MAY , 1971												
21...	--	910	11	35	8.7	4.8	1.2	140	0	17	2.8	.2
13132500 - BIG LOST RIVER NR ARCO, IDAHO (LAT 43 35 00 LONG 113 16 10)												
MAY , 1971												
24...	0815	139	14	52	13	7.6	1.5	209	0	19	4.3	.2
AUG.												
02...	0930	168	14	56	14	8.9	1.6	246	0	19	3.5	.3
BICKEL SPRING BASIN												
13132790 - BICKEL SPRING NR HAGERMAN, IDAHO (LAT 42 45 29 LONG 114 51 19)												
MAR., 1971												
31...	0905	16	--	--	--	--	--	164	--	25	--	.5
SEP.												
03...	1510	18	35	30	15	17	3.8	171	0	30	11	.6
13133400 - HATCHERY DOMESTIC SPRING NR HAGERMAN IDAHO (LAT 42 45 42 LONG 114 51 20)												
DEC., 1970												
11...	1730	--	36	30	16	18	3.8	170	0	24	12	--
BIG WOOD RIVER BASIN												
13141000 - BIG WOOD RIVER NR BELLEVUE, IDAHO (LAT 43 19 40 LONG 114 20 25)												
MAY , 1971												
11...	1515	2580	15	30	6.8	3.2	1.1	105	--	19	1.8	.3
JULY												
26...	1530	537	15	43	8.4	3.5	1.1	179	0	15	2.8	.3
AUG.												
23...	1645	36	17	48	9.5	4.2	1.3	201	0	10	.9	.7
13141500 - CAMAS CREEK NR BLAINE, IDAHO (LAT 43 19 59 LONG 114 32 27)												
APR., 1971												
26...	1615	1570	9.5	16	3.1	7.1	2.2	68	--	6.0	2.2	.4
MAY												
17...	1430	1360	17	17	3.0	5.2	1.2	70	--	3.3	1.9	.1
AUG.												
23...	1330	16	24	30	5.9	12	2.3	144	0	6.0	2.8	.3
13152500 - BIG WOOD RIVER NEAR GOODING, IDAHO (LAT 42 53 12 LONG 114 48 08)												
MAY , 1971												
04...	1315	2240	15	27	7.3	9.7	3.3	118	--	18	6.3	.6
AUG.												
02...	1015	92	9.9	46	12	15	3.8	185	0	28	12	.4
26...	1245	138	13	43	13	16	3.4	192	0	27	13	.8
13152900 - COVE CREEK NR HAGERMAN IDAHO (LAT 42 52 01 LONG 114 52 06)												
MAR., 1971												
22...	1345	64	35	37	19	23	3.9	213	--	33	13	.3
SEP.												
03...	1345	73	35	39	17	22	3.9	210	0	35	12	.6
13153713 - SHORT CREEK NR BLISS, IDAHO (LAT 42 52 46 LONG 114 54 26)												
MAR., 1971												
22...	1150	11	38	57	27	52	4.8	332	--	79	31	.4
SEP.												
15...	1330	14	38	72	26	46	5.0	324	0	75	31	.6
BRUNEAU RIVER BASIN												
13168500 - BRUNEAU RIVER NR HOT SPRING, IDAHO (LAT 42 46 16 LONG 115 43 10)												
APR., 1971												
26...	1645	1400	11	13	2.0	8.4	3.6	68	--	5.0	4.1	.5
MAY												
11...	2005	3280	28	13	2.4	6.8	3.2	55	--	6.0	3.9	.3
SEP.												
14...	1430	127	35	16	2.1	20	4.4	97	0	12	5.0	2.0

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
BOISE RIVER BASIN												
13202000 - BOISE RIVER NEAR BOISE, IDAHO (LAT 43 31 40 LONG 116 03 31)												
MAR., 1971												
05...	1445	6180	16	9.9	1.4	4.3	.9	39	3	3.0	1.5	.3
PAYETTE RIVER BASIN												
13251000 - PAYETTE RIVER NR. PAYETTE, IDAHO (LAT 44 02 33 LONG 116 55 27)												
OCT., 1970												
07...	1115	1810	18	14	2.7	16	1.7	83	0	10	4.0	.5
MAY , 1971												
19...	1815	8950	16	7.5	1.2	5.5	.8	38	0	4.5	.8	.1
JUNE												
28...	1645	18000	13	5.4	1.0	4.9	.8	30	0	3.8	.9	.0
SEP.												
17...	1510	2050	17	13	2.5	15	1.5	83	0	11	2.7	.6
WEISER RIVER BASIN												
13266000 - WEISER RIVER NEAR WEISER, IDAHO (LAT 44 16 23 LONG 116 46 23)												
OCT., 1970												
13...	1250	184	30	13	5.7	8.5	2.7	85	0	3.8	6.0	.1
MAR., 1971												
25...	1545	4360	30	8.5	3.8	4.3	1.8	53	--	2.8	1.3	.0
JULY												
30...	1340	333	28	11	4.2	6.3	2.5	73	0	3.3	1.9	.2
SEP.												
04...	1325	310	27	12	5.4	7.6	3.4	80	0	3.5	1.6	.4
SALMON RIVER BASIN												
13302500 - SALMON RIVER AT SALMON IDAHO (LAT 45 11 00 LONG 113 53 40)												
OCT., 1970												
13...	1810	1350	19	34	7.7	11	2.2	148	0	16	4.5	.6
MAY , 1971												
30...	1305	9800	16	14	2.4	4.3	1.1	62	0	6.0	1.1	.2
JULY												
21...	1015	4620	13	19	3.4	5.1	1.2	88	0	6.3	1.1	.3
13305300 - LEMHI RIVER NEAR SALMON IDAHO (LAT 45 07 47 LONG 113 47 47)												
MAY , 1971												
30...	1110	1070	19	25	7.8	14	2.5	121	0	24	4.8	.1
13307000 - SALMON RIVER NR SHOUP, IDAHO (LAT 45 19 20 LONG 114 26 23)												
MAY , 1971												
29...	1120	15100	16	13	2.7	4.8	2.0	58	0	9.3	1.5	.3
JULY												
20...	0750	5600	14	20	3.9	6.9	1.3	94	0	9.0	1.5	.3
13316500 - LITTLE SALMON RIVER AT RIGGINS, IDAHO (LAT 45 24 47 LONG 116 19 29)												
MAY , 1971												
25...	1235	3060	15	6.6	1.2	2.1	.6	30	0	1.5	2.7	.0
JULY												
28...	1230	430	16	15	2.4	2.9	.8	56	0	7.8	1.1	.1
SEP.												
02...	1315	312	18	21	3.6	4.0	1.4	88	0	12	.4	.4
13317000 - SALMON RIVER AT WHITE BIRD, IDAHO (LAT 45 45 01 LONG 116 19 23)												
MAY , 1971												
18...	1450	54900	14	7.9	1.2	2.8	.9	38	0	3.0	.8	.2
JULY												
28...	1530	16100	14	12	2.4	4.6	.8	58	0	6.0	2.4	.3
SEP.												
02...	1715	6390	15	18	3.7	7.0	3.3	89	0	8.5	1.6	.7
CLEARWATER RIVER BASIN												
13342500 - CLEARWATER RIVER AT SPALDING, IDAHO (LAT 46 26 55 LONG 116 49 35)												
NOV., 1970												
21...	1430	6360	25	4.1	1.0	2.3	1.7	28	0	2.2	.4	.0
MAY , 1971												
15...	1355	81000	11	2.4	.4	1.1	.4	12	0	1.0	.3	.0
JULY												
26...	1530	8600	12	3.8	.6	1.7	.6	19	0	1.0	.4	1.1

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
BOISE RIVER BASIN												
13202000 - BOISE RIVER NEAR BOISE, IDAHO (LAT 43 31 40 LONG 116 03 31)												
MAR., 1971												
05...	.00	--	.030	59	984	30	0	.3	23	85	8.4	2.5
PAYETTE RIVER BASIN												
13251000 - PAYETTE RIVER NR. PAYETTE, IDAHO (LAT 44 02 33 LONG 116 55 27)												
OCT., 1970												
07...	.07	--	.070	108	533	46	0	1.0	42	159	7.8	9.0
MAY , 1971												
19...	.10	.050	.090	56	1350	24	0	.5	33	69	7.8	11.0
JUNE												
28...	.40	.050	.120	46	2240	18	0	.5	36	64	6.7	11.5
SEP.												
17...	.21	.060	.080	106	587	43	0	1.0	42	154	7.5	15.5
WEISER RIVER BASIN												
13266000 - WEISER RIVER NEAR WEISER, IDAHO (LAT 44 16 23 LONG 116 46 23)												
OCT., 1970												
13...	.10	--	--	112	56.6	56	0	.5	24	148	8.1	9.0
MAR., 1971												
25...	1.0	.080	.300	83	977	37	0	.3	19	95	7.5	5.0
JULY												
30...	.15	.120	.150	94	84.5	45	0	.4	22	114	8.0	21.5
SEP.												
04...	.23	.120	.130	102	85.4	52	0	.5	23	138	7.6	18.5
SALMON RIVER BASIN												
13302500 - SALMON RIVER AT SALMON IDAHO (LAT 45 11 00 LONG 113 53 40)												
OCT., 1970												
13...	.30	--	--	168	620	116	0	.4	17	273	7.9	--
MAY , 1971												
30...	.12	.070	.300	76	7010	45	0	.3	17	105	7.1	8.5
JULY												
21...	.04	.020	.050	93	1160	61	0	.3	15	134	7.9	16.0
13305300 - LEMHI RIVER NEAR SALMON IDAHO (LAT 45 07 47 LONG 113 47 47)												
MAY , 1971												
30...	.25	.120	.260	158	456	94	0	.6	24	251	7.8	5.5
13307000 - SALMON RIVER NR SHOUP, IDAHO (LAT 45 19 20 LONG 114 26 23)												
MAY , 1971												
23...	.05	.120	.600	79	3220	44	0	.3	18	104	7.2	9.0
JULY												
20...	.01	.020	.070	103	1560	66	0	.4	18	150	7.8	18.0
13316500 - LITTLE SALMON RIVER AT RIGGINS, IDAHO (LAT 45 24 47 LONG 116 19 29)												
MAY , 1971												
25...	.15	.040	.070	45	372	21	0	.2	17	53	7.6	8.5
JULY												
29...	.03	.010	.040	74	85.9	47	1	.2	12	109	7.7	15.0
SEP.												
07...	.13	.030	.080	135	88.5	67	0	.2	11	156	7.8	13.0
13317000 - SALMON RIVER AT WHITE BIRD, IDAHO (LAT 45 45 01 LONG 116 19 23)												
MAY , 1971												
18...	.04	.040	.100	50	7410	25	0	.2	19	63	7.3	8.5
JULY												
28...	.02	.010	.040	71	3090	40	0	.3	20	107	8.0	21.0
SEP.												
02...	.06	.020	.100	102	1760	60	0	.4	19	159	7.9	17.0
CLEARWATER RIVER BASIN												
13342500 - CLEARWATER RIVER AT SPALDING, IDAHO (LAT 46 26 55 LONG 116 49 35)												
NOV., 1970												
21...	.10	--	.050	36	618	14	0	.3	23	36	7.5	3.5
MAY , 1971												
15...	.10	.010	.030	23	5030	8	0	.2	23	21	8.0	9.0
JULY												
26...	.04	.010	.020	31	720	12	0	.2	23	32	7.8	22.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

SNAKE RIVER BASIN

DATE	TIME	DIS-CHARGE (CFS)	CHLO-RIDE (CL) (MG/L)	NITRATE (NO3) (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	TEMP-ERATURE (DEG C)
13090100 - DEVILS CORRAL SPRINS UPPER OUTLET NR KIMBERLY (LAT 42 35 38 LONG 114 21 55)						
MAR., 1970						
23...	1440	7.3	42	7.7	613	14.5
13090250 - DEVILS CORRAL SPRINGS NEAR KIMBERLY, IDAHO (LAT 42 36 01 LONG 114 21 55)						
MAR., 1970						
23...	1340	44	42	7.5	647	15.5
13090300 - UNNAMED SPRING NO. 1 NR TWIN FALLS, IDAHO (LAT 42 36 03 LONG 114 23 36)						
MAR., 1970						
23...	1525	1.8	41	6.3	608	15.5
13090350 - UNNAMED SPRING NO. 2 NR TWIN FALLS, IDAHO (LAT 42 35 52 LONG 114 23 55)						
MAR., 1970						
23...	1200	4.8	43	6.6	612	17.0
13091700 - WARM CREEK NEAR TWIN FALLS, IDAHO (LAT 42 37 15 LONG 114 29 55)						
MAR., 1970						
28...	1400	16	44	4.7	594	14.5
13093300 - ELLISONS SPRINGS UPPER OUTLET NR JEROME (LAT 42 38 13 LONG 114 33 40)						
MAR., 1970						
28...	1200	2.1	38	8.4	656	13.5
13094300 - CLEAR LAKES SPRINGS AT HEAD NR BUHL, IDAHO (LAT 42 40 29 LONG 114 46 17)						
MAR., 1970						
26...	1200	--	21	2.8	424	13.5
13095300 - BANBURY SPRINGS NEAR BUHL, IDAHO (LAT 42 41 31 LONG 114 49 21)						
MAR., 1970						
24...	1200	118	19	2.5	412	13.0
13095350 - UNNAMED SPRING NEAR BUHL, IDAHO (LAT 42 41 51 LONG 114 49 21)						
MAR., 1970						
24...	0955	4.3	19	2.6	412	13.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

SNAKE RIVER BASIN

DATE	TIME	DIS-CHARGE (CFS)	CHLO-RIDE (CL) (MG/L)	NITRATE (NO3) (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	TEMP-ERATURE (DEG C)
13095400 - BLIND CANYON SPRING NR BUHL, IDAHO (LAT 42 42 12 LONG 114 49 20)						
MAR., 1970						
24...	1040	11	18	1.9	410	13.5
13095600 - BOX CANYON SPRINGS AT MOUTH NR WENDELL, IDAHO (LAT 42 42 20 LONG 114 49 20)						
MAR., 1970						
25...	1200	--	18	--	399	13.5
13132600 - SAND SPRINGS CR. ABOVE PONDS NR HAGERMAN (LAT 42 43 36 LONG 114 50 00)						
MAR., 1970						
26...	1505	85	16	--	402	14.0
13132800 - THOUSAND SPRINGS AT MOUTH NR HAGERMAN, IDAHO (LAT 42 44 23 LONG 114 50 27)						
MAR., 1970						
25...	1250	1200	16	--	412	13.0
13134300 - RILEY CR AT MOUTH NR HAGERMAN, IDAHO (LAT 42 45 47 LONG 114 52 27)						
MAR., 1970						
30...	0945	60	11	--	337	14.5
13134600 - BILLINGSLEY CREEK NR HAGERMAN, IDAHO (LAT 42 46 35 LONG 114 50 55)						
MAR., 1970						
29...	1245	45	12	--	451	13.5
13135100 - BIRCH CREEK NEAR HAGERMAN, IDAHO (LAT 42 51 10 LONG 114 53 30)						
MAR., 1970						
27...	1030	8.5	14	--	364	13.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

PAHSIMEROI RIVER BASIN

13299390 - PAHSIMEROI RIVER BELOW FORKS NEAR DICKEY, IDAHO (LAT 44 09 27 LONG 113 42 12)

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)
JUNE 15...	141	4.1	29	9.6	3.4	.4	131	0	12	1.7	.0	.20

DATE	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
JUNE 15...	.000	.030	126	48.0	110	4	.1	6	217	8.0	6.0

13301500 - BIG CREEK NEAR PATTERSON, IDAHO (LAT 44 26 38 LONG 113 36 27)

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
JUNE 16...	1150	308	8.8	3.9	2.5	2.0	.6	28	0	2.3	1.8	.0

DATE	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
JUNE 16...	.35	.020	.050	37	30.8	20	0	.2	17	51	7.3	6.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

13301510 - GROUSE CREEK NEAR MAY, IDAHO (LAT 44 26 50 LONG 113 53 14)

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
JUNE 14...	1845	4.9	7.1	45	6.8	.4	.7	165	0	18	1.9	.0

DATE	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
JUNE 14...	.21	.040	.400	162	2.17	140	5	.0	1	273	8.1	12.5

13301520 - MEADOW CREEK NEAR MAY, IDAHO (LAT 44 27 29 LONG 113 55 10)

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
JUNE 14...	1730	2.2	21	39	12	6.9	1.1	205	0	6.3	4.6	.0

DATE	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
JUNE 14...	.14	.030	.500	192	1.16	150	0	.2	9	311	8.2	13.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

13301530 - SULPHUR CREEK NEAR MAY, IDAHO (LAT 44 30 29 LONG 113 56 40)

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
JUNE 14...	1545	1.7	28	22	6.4	9.7	1.0	122	0	5.5	5.2	.0

DATE	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
JUNE 14...	.28	.070	.150	139	.66	81	0	.5	20	199	7.7	14.5

13301600 - PATTERSON CREEK AT PATTERSON, IDAHO (LAT 44 31 28 LONG 113 42 11)

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
JUNE 15...	1420	200	6.0	5.8	4.2	1.1	.4	44	0	6.0	1.5	.0

DATE	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
JUNE 15...	.07	.010	.040	47	25.4	32	0	.1	7	69	7.4	6.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

13301700 - MORSE CREEK ABOVE DIVERSIONS NEAR MAY, IDAHO (LAT 44 36 55 LONG 113 48 25)

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
JUNE												
15...	1015	95	5.8	2.2	1.1	.7	.4	14	0	2.8	1.4	.0

DATE	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
JUNE												
15...	.05	.020	.050	22	5.68	10	0	.1	13	22	7.2	4.0

13302000 - PAHSIMEROI RIVER NEAR MAY, IDAHO (LAT 44 41 23 LONG 114 02 40)

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
MAY , 1971												
06...	1250	151	16	39	13	8.5	2.2	178	--	16	8.7	.1
JUNE												
20...	1210	186	22	45	16	11	2.1	232	0	18	7.9	.0

DATE	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
MAY , 1971												
06...	.30	.030	.100	192	78.3	150	5	.3	11	324	8.1	9.0
JUNE												
20...	.43	.050	.060	238	120	180	0	.4	12	392	7.9	12.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

SALMON RIVER BASIN

13306500 - PANTHER CREEK NEAR SHOUP, IDAHO (LAT 45 18 20 LONG 114 23 30)

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)
JAN.											
12...	300	--	59	80	0	0	8	23	0	19	85
MAY											
29...	300	280	50	160	--	--	0	--	0	--	--

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
JAN.										
12...	70	1	130	.7	--	0	0	0	0	.2
MAY										
29...	--	--	100	.3	0	0	30	--	--	.1

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
JAN., 1971												
12...	1215	102	--	--	--	--	--	--	--	--	--	--
MAY												
29...	1315	2680	15	4.9	1.1	2.5	1.5	22	0	7.3	1.3	.2
JULY												
20...	0830	456	14	6.8	1.2	3.1	.9	32	0	7.3	1.6	.4

DATE	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
JAN., 1971												
12...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
29...	.02	--	.15	45	326	17	0	.3	23	48	8.3	5.5
JULY												
20...	.01	--	.050	51	62.8	22	0	.3	23	63	8.2	13.0

FIGURE 1.-- MAP OF IDAHO SHOWING SITES WHERE WATER-QUALITY DATA WERE OBTAINED DURING 1971 WATER YEAR

EXPLANATION

PART 13

River basin boundary and number

▽1150
Data collection site and number

▼ Daily

▼ Monthly

▽ Chemical quality, inorganic

▽ Chemical quality, organic

▽ Sediment

▽ Temperature

▽ Biological quality

0 10 20 30 40 50 MILES

Base from U. S. Geological Survey
Idaho 1:500,000, 1957

	Page
Basin Creek near Stanley	79
Bear Lake outlet canal near Paris	15
Bear River, at Border, Wyo	12
Bear River basin, analyses at partial-record sites in	16
Beaver Creek near Stanley	75
Bickel Spring basin, analyses at partial-record site in	132
Big Boulder Creek at Livingston Mill, near Clayton	105
Big Boulder Creek near Clayton	107
Big Jacks Creek near Bruneau	49
Big Lake Creek near Clayton	108
Big Wood River basin, analyses at partial-record sites in	132
Blackfoot River basin, analyses at partial-record site in	124
Blue Lakes Spring basin, analyses at partial-record site in	128
Boise River, at Notus	59
near Parma	62
Boise River basin, analysis at partial-record site in	134
Box Canyon Springs basin, analysis at partial-record site in	130
Bruneau River basin, analyses at partial-record site in	132
Bruno Creek near Clayton	90
Champion Creek near Obsidian	76
Clark Fork at Clark Fork	27
Clearwater River, at Spalding	121
near Peck	120
North Fork, at Ahsahka	119
near Canyon ranger station	117
Little North Fork, near Elk River	118
Clearwater River basin, analyses at partial-record site in	134
Coeur d'Alene River, South Fork, at Smelterville	30
Collection and examination of data	7
Cooperation	1
Deep Creek basin, analyses at partial-record sites in	130
Definition of terms	2
Dixie Slough near Wilder	61
Downstream order and station numbers	6
Five Mile Creek near Nampa	56
Fourth of July Creek near Obsidian	77
Germania Creek near Clayton	97
Goose Creek basin, analyses at partial-record sites in	128
Hayden Creek below North Fork, near Hayden Lake	32
Henrys Fork basin, analyses at partial-record sites in	124
Herd Creek near Clayton	109
Holman Creek near Clayton	85
Horse Basin Creek near Clayton	111
Indian Creek at Caldwell	58
Introduction	1
Jim Creek at Livingston Mill, near Clayton	106
Kootenai River, at Leonia	18
at Porthill	28
near Copeland	21
Lake Milner at Milner Dam	42
Little Boulder Creek, above Baker Lake, near Clayton	100
below Boulder Chain Lakes outlet, near Clayton	101
near Clayton	102
Map of Idaho showing water-quality sampling sites	143
Mason Creek at Caldwell	57
Mores Creek above Robie Creek, near Arrowrock Dam	55
Mud Lake-Lost River basins, analyses at partial-record sites in	130-132
Pahsimeroi River basin, analyses at miscellaneous sites in	138-141
Panther Creek basin, analyses at miscellaneous site in	142
Pat Hughes Creek near Clayton	87
Payette River, near Banks	64
near Horseshoe Bend	66
North Fork, near Banks	65
Payette River basin, analyses at partial-record site in	134
Peach Creek near Clayton	83
Portneuf River basin, analyses at partial-record sites in	124-126
Raft River basin, analyses at partial-record sites in	128
Rainbow inlet canal near Dingle	14
Road Creek, above Horse Basin Creek, near Clayton	100
near Clayton	112
Rock Creek basin, analyses at partial-record sites in	128
Salmon Falls Creek basin, analyses at partial-record site in	130
Salmon River, above East Fork, near Clayton	92
at White Bird	115
below Yankee Fork, near Clayton	81
East Fork, below Bowery guard station, near Clayton	96
below Wickiup Creek, near Clayton	99
near Clayton	113
South Fork of, above West Fork, near Clayton	93
West Fork of, above South Fork, near Clayton	94
near Challis	114
near Obsidian	74
Yankee Fork, near Clayton	80
Salmon River basin, analyses at miscellaneous site in	142
analyses at partial-record sites in	130
Salt River above reservoir, near Etna, Wyo	37
Sediment	9
Selected references	10
Slate Creek near Clayton	84
Snake River, above reservoir, near Alpine, Wyo	36
at Hells Canyon Dam, Idaho-Oregon State line	72
at King Hill	46
at Marsing	52
at Weiser	68
below Pine Creek, at Oxbow, Oreg	71
near Anatone, Wash	116
near Clarkston, Wash	122
near Heise	38
Snake River basin, analyses at miscellaneous sites in	136-137
analyses at partial-record sites in	124,126,128
Solutes	8
Special networks and programs	6
Spokane River above Liberty Bridge, near Otis Orchards, Wash	35
Squaw Creek, above Bruno Creek, near Clayton	89
near Clayton	91
Temperature	9
Teton River near St. Anthony	40
Thompson Creek, above Pat Hughes Creek, near Clayton	86
near Clayton	88
Tributaries to Snake River, analysis at partial-record site in	128,130
Valley Creek at Stanley	78
Warm Springs Creek at Robinson Bar, near Clayton	82
Water-supply papers	9
Weiser River, West Branch, near Tamarack	67
Weiser River basin, analyses at partial-record site in	134
West Pass Creek near Clayton	95
Wickiup Creek near Clayton	98
Willow Creek near Ririe	41
Willow Creek basin, analyses at partial-record site in	124

☆ GPO 796-113

U. S. DEPARTMENT OF THE INTERIOR
Geological Survey
Room 365, Federal Building
550 West Fort Street
Boise, Idaho 83702