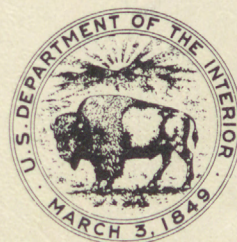
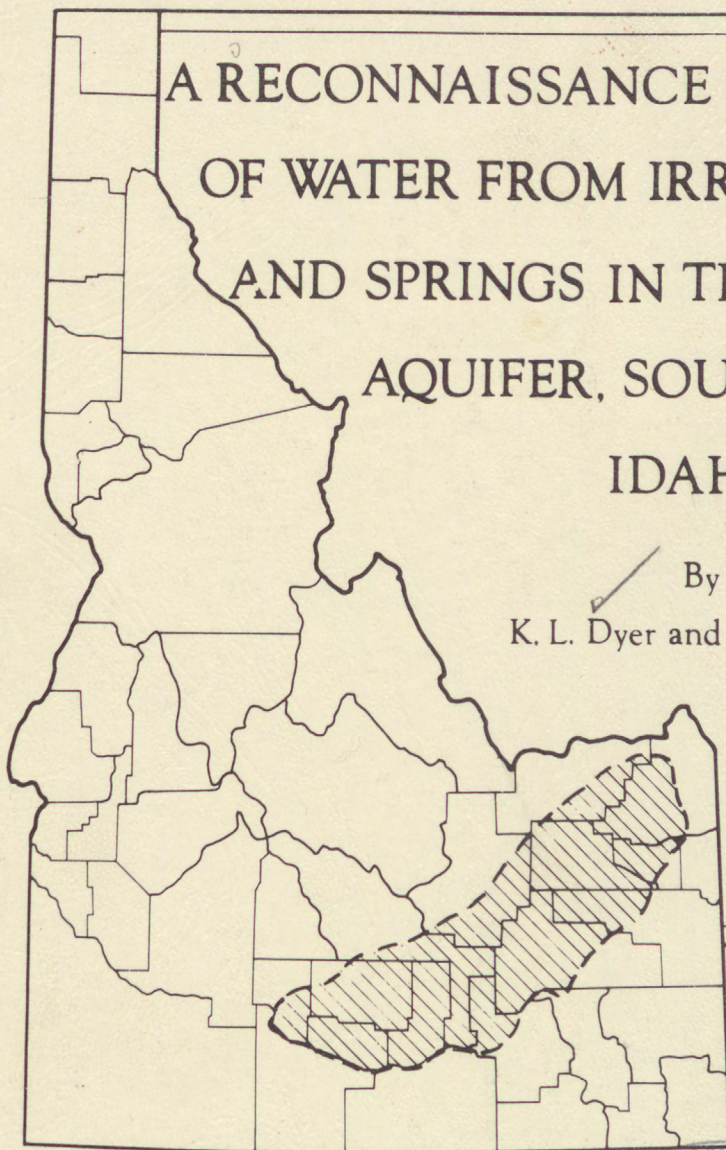


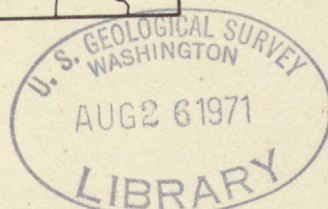
(200)
D988r

A RECONNAISSANCE OF THE QUALITY
OF WATER FROM IRRIGATION WELLS
AND SPRINGS IN THE SNAKE PLAIN
AQUIFER, SOUTHEASTERN
IDAHO ✓ 549

By
K. L. Dyer and H.W. Young



OPEN-FILE REPORT



UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

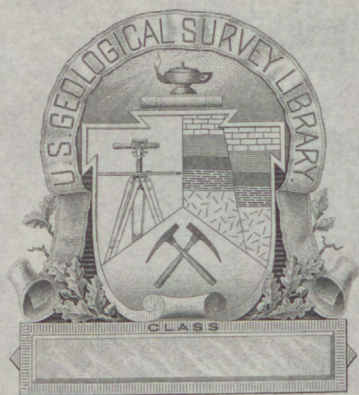
Prepared in cooperation with the

IDAHO DEPARTMENT OF WATER ADMINISTRATION

(200)
D988r

Boise, Idaho

1971



(200)
D988N

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Water Resources Division

CONTENTS

Page

Abstract	1
Introduction	2
Well-numbering system	3
Use of water	4
A RECONNAISSANCE OF THE QUALITY OF WATER FROM IRRIGATION WELLS AND SPRINGS IN THE SNAKE PLAIN AQUIFER, SOUTHEASTERN IDAHO	7
Chloride	8
Nitrate	8
Orthophosphate	8
Temperature	8
Fecal coliform bacteria	9
Conclusions	9
Selected references	11

By

K. L. Dyer and H. W. Young

ILLUSTRATIONS

Page

Figure 1. Index map showing area covered by this report	3
2. Diagram showing well-numbering system	3
3. Map showing specific conductance patterns Prepared in cooperation with the Idaho Department of Water Administration	4
4. Map showing chloride distribution patterns and areal distribution of irrigated lands and ground-water sampling sites	5
5. Map showing nitrate distribution patterns and areal distribution of irrigated and ground-water sampling sites	5

230368

OPEN-FILE REPORT

TABLES

Boise, Idaho
July 1971

Page

Table 1. Temperature-conversion table	6
2. Chemical analyses of ground water from	6

CONTENTS

	Page
Abstract-----	1
Introduction-----	2
Well-numbering system-----	4
Use of metric units-----	4
Chemical quality of ground water from irrigation wells and springs-----	4
Specific conductance-----	7
Chloride-----	8
Nitrate-----	8
Orthophosphate-----	8
Temperature-----	9
Fecal coliform bacteria-----	9
Conclusions-----	9
Selected references-----	11

ILLUSTRATIONS

	Page
Figure 1. Index map showing area covered by this report-----	3
2. Diagram showing well-numbering system-----	5
3. Map showing specific conductance patterns and areal distribution of irrigated lands and ground-water sampling sites-----	Pocket
4. Map showing chloride distribution patterns and areal distribution of irrigated lands and ground-water sampling sites-----	Pocket
5. Map showing nitrate distribution patterns and areal distribution of irrigated lands and ground-water sampling sites-----	Pocket

TABLES

	Page
Table 1. Temperature-conversion table-----	6
2. Chemical analyses of ground water from selected irrigation wells and springs-----	12
3. Locations of sampled springs-----	28

A RECONNAISSANCE OF THE QUALITY OF WATER FROM IRRIGATION

WELLS AND SPRINGS IN THE SNAKE PLAIN AQUIFER, SOUTHEASTERN IDAHO

By K. L. Dyer and H. W. Young

ABSTRACT

This report describes the quality of the water in part of the Snake Plain aquifer based on analyses of water samples collected in 1970. Chloride, nitrate, and orthophosphate concentrations, specific conductance, and temperature were measured for samples collected from 194 irrigation wells and 29 springs yielding water from the Snake Plain aquifer. In addition, standard complete analyses were made of water samples from 55 of the irrigation wells and 13 of the springs. As an additional part of the complete analyses, 46 of the irrigation wells were tested for the presence of fecal coliform bacteria. All samples analyzed were collected during the period March to October 1970. Many wells and springs were sampled at least twice during this period. Although minor fluctuations in some constituents were noted, no well-defined seasonal trends were identified.

Wells along the eastern and southern margins of the Plain generally yield water having a specific conductance greater than 300 micromhos per centimeter. The specific conductance of water in five irrigated areas exceeded 1,000 micromhos per centimeter. The data collected indicate that the specific conductance is lower in the central part of the Plain where it probably is less than 300 micromhos per centimeter.

Chloride concentrations in the samples collected ranged from 7 mg/l (milligrams per liter) to 325 mg/l, although in the heavily irrigated areas most concentrations ranged from 10 mg/l to 160 mg/l. Nitrate concentrations ranged from 2 mg/l to 32 mg/l and have an areal distribution very similar to that of specific conductance and chloride. Concentrations

of orthophosphate ranged from 0 to 0.23 mg/l, although generally they were below 0.1 mg/l. Ground-water temperatures in June and July ranged from 10.0° C (degrees Celsius) to 20.0° C and averaged 12.4° C. No fecal coliform were found in the water from 46 irrigation wells tested for these bacteria.

INTRODUCTION

The purpose of this report is to present the basic data collected in 1970 on the quality of the ground water in the Snake Plain aquifer. The bulk of the data presented in this report was collected in conjunction with a ground-water-pumpage inventory of the Snake Plain aquifer made by the U.S. Geological Survey in cooperation with the Idaho Department of Water Administration. Additional data were collected by the U.S. Geological Survey in cooperation with the U.S. Bureau of Reclamation.

The Snake Plain aquifer underlies approximately 9,600 square miles of the Snake River Plain in southeastern Idaho (fig. 1). The boundary of the aquifer, as defined by Norvitch, Thomas, and Madison (1969, p. 2) encompasses the area covered by this report and is shown in figure 3. As shown, this boundary was arbitrarily drawn along the foot of the mountains surrounding the Plain and across the mouths of the tributary valleys. Generally, the boundary marks the contact of the more permeable Snake Plain aquifer with the less permeable materials bounding the Plain.

Centers of population, agricultural development, and water use are mostly near the Snake River, which flows along the eastern and southern margins of the Snake River Plain. The Snake River is the primary source of irrigation water for croplands lying near the river. Ground water is used almost exclusively on the more recently developed irrigated lands extending onto the Plain away from the areas irrigated with surface water (fig. 3). Although most of the ground water withdrawn from the Snake Plain aquifer is used for irrigation, the aquifer also serves as the chief regional source of water for municipal, industrial, and rural-domestic supplies.

This report was prepared from information compiled as a part of a cooperative program of investigation of the Snake Plain aquifer made by the U.S. Geological Survey in cooperation with the Idaho Department of Water Administration and the U.S. Bureau of Reclamation.

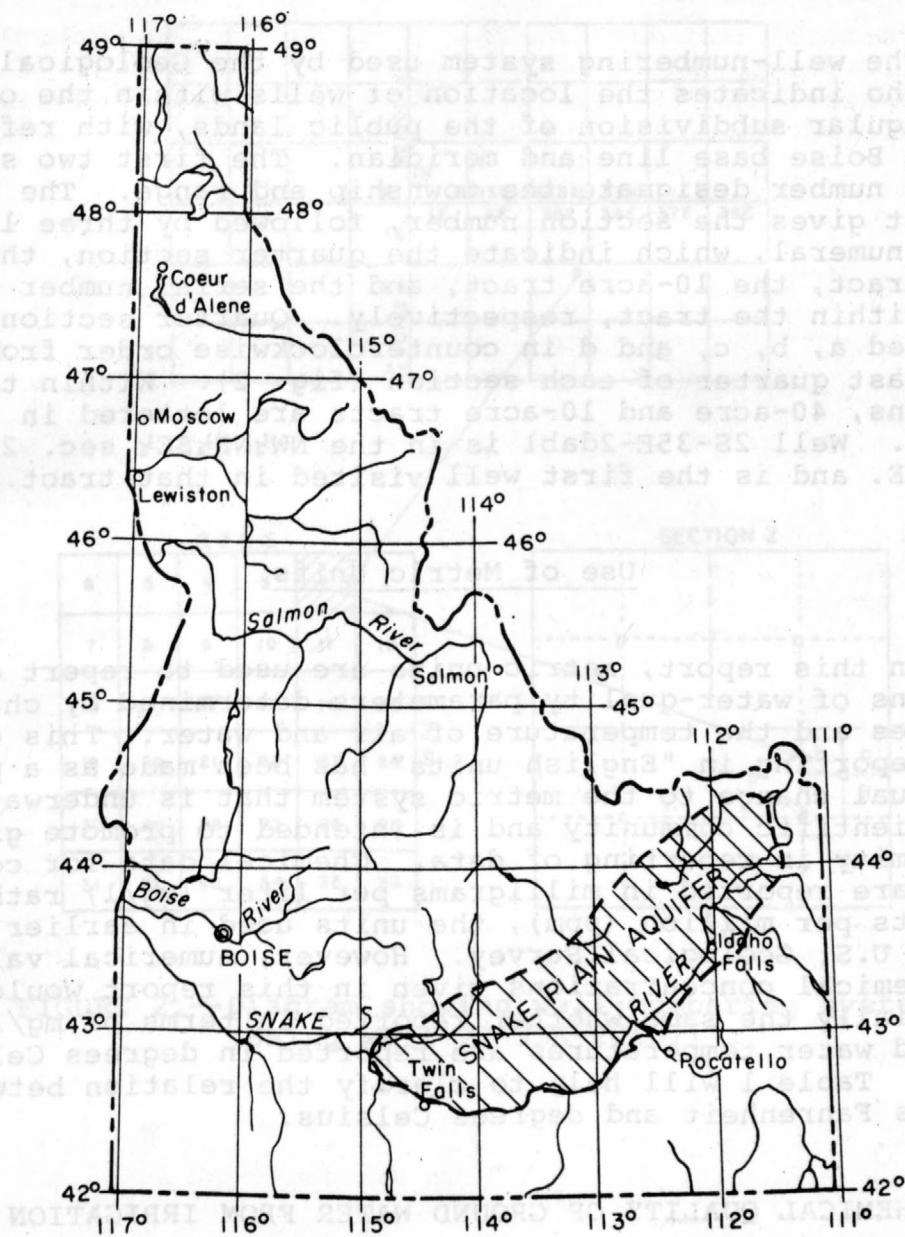


FIGURE 1.-- Index map showing area covered by this report.

Well-Numbering System

The well-numbering system used by the Geological Survey in Idaho indicates the location of wells within the official rectangular subdivision of the public lands, with reference to the Boise base line and meridian. The first two segments of the number designate the township and range. The third segment gives the section number, followed by three letters and a numeral, which indicate the quarter section, the 40-acre tract, the 10-acre tract, and the serial number of the well within the tract, respectively. Quarter sections are lettered a, b, c, and d in counterclockwise order from the northeast quarter of each section (fig. 2). Within the quarter sections, 40-acre and 10-acre tracts are lettered in the same manner. Well 2S-35E-2dabl is in the NW $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 2, T. 2 S., R. 35 E. and is the first well visited in that tract.

Use of Metric Units

In this report, metric units are used to report concentrations of water-quality parameters determined by chemical analyses and the temperature of air and water. This change from reporting in "English units" has been made as a part of a gradual change to the metric system that is underway within the scientific community and is intended to promote greater uniformity in reporting of data. Chemical data for concentrations are reported in milligrams per liter (mg/l) rather than in parts per million (ppm), the units used in earlier reports of the U.S. Geological Survey. However, numerical values for the chemical concentrations given in this report would be essentially the same whether reported in terms of mg/l or ppm. Air and water temperatures are reported in degrees Celsius ($^{\circ}$ C). Table 1 will help to clarify the relation between degrees Fahrenheit and degrees Celsius.

CHEMICAL QUALITY OF GROUND WATER FROM IRRIGATION

WELLS AND SPRINGS

A complete listing of all chemical data acquired for this report by the U.S. Geological Survey and cooperating agencies in 1970 is given in table 2. Chloride, nitrate, and orthophosphate concentrations, specific conductance and temperature were measured for samples collected from 194 irrigation wells

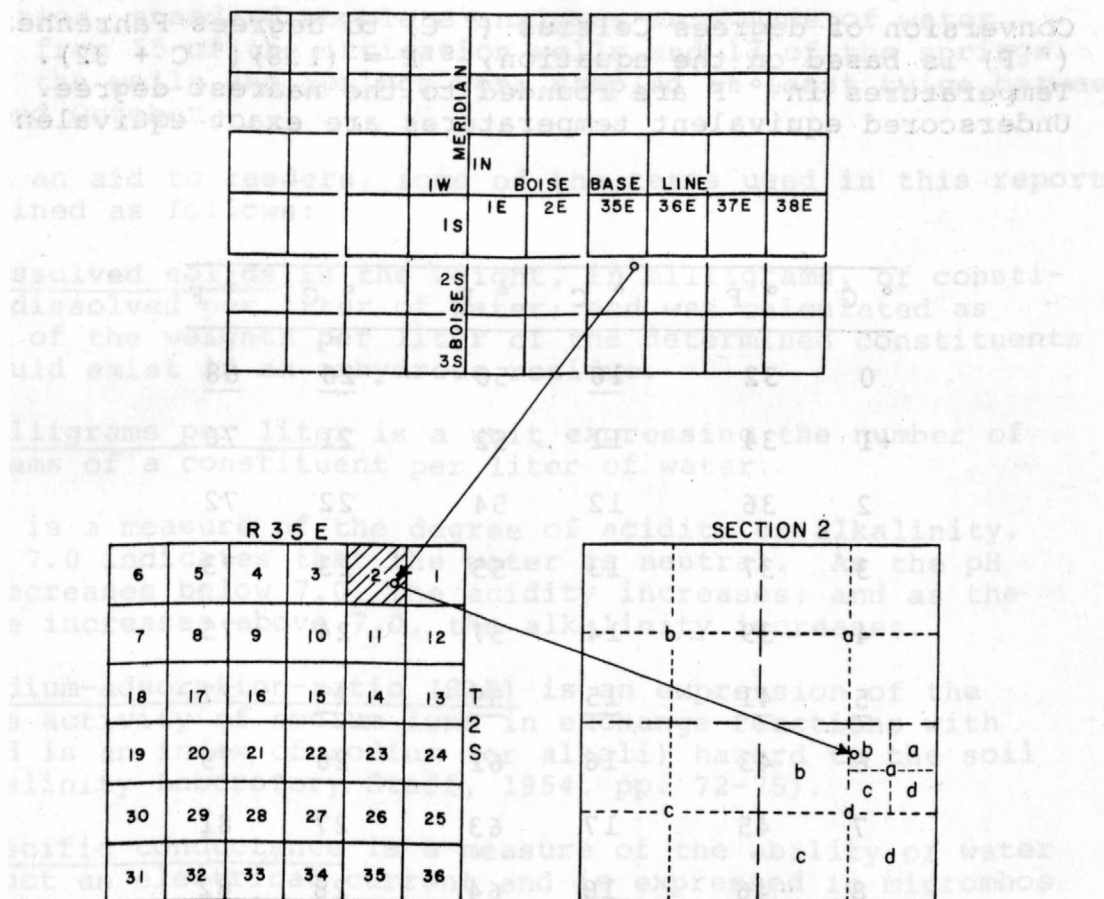


FIGURE 2.--Diagram showing well-numbering system.
(Using well 2S-35E-2dab1)

Specific Conductance

Figure 3 is a map depicting the pattern of specific conductance values measured in part of the Snake Plain aquifer. Values measured ranged from 260 to 1,160 micromhos per centimeter (table 2); however, most values were below 1,100 micromhos per centimeter.

Table 1. Temperature-conversion table.

Conversion of degrees Celsius ($^{\circ}\text{C}$) to degrees Fahrenheit ($^{\circ}\text{F}$) is based on the equation, $^{\circ}\text{F} = (1.8)(^{\circ}\text{C} + 32)$. Temperatures in $^{\circ}\text{F}$ are rounded to the nearest degree. Underscored equivalent temperatures are exact equivalents.

$^{\circ}\text{C}$	$^{\circ}\text{F}$	$^{\circ}\text{C}$	$^{\circ}\text{F}$	$^{\circ}\text{C}$	$^{\circ}\text{F}$
0	32	<u>10</u>	50	<u>20</u>	<u>68</u>
+1	34	11	52	21	70
2	36	12	54	22	72
3	37	13	55	23	73
4	39	14	57	24	75
<u>5</u>	<u>41</u>	<u>15</u>	<u>59</u>	<u>25</u>	77
6	43	16	61	26	79
7	45	17	63	27	81
8	46	18	64	28	82
9	48	19	66	29	84

CHEMICAL QUALITY OF GROUND WATERS FROM IRRIGATION

TABLE 1. TEMPERATURE-CONVERSION TABLE

A complete listing of all chemical data acquired by the U.S. Geological Survey and cooperating agencies in 1970 is given in table 2. Chloride, nitrate, sulfate,

and 29 springs yielding water from the Snake Plain aquifer. In addition, standard complete analyses were made of water samples from 55 of the irrigation wells and 13 of the springs. Most of the wells and springs were sampled at least twice between March and October.

As an aid to readers, some of the terms used in this report are defined as follows:

Dissolved solids is the weight, in milligrams, of constituents dissolved per liter of water; and was calculated as the sum of the weights per liter of the determined constituents that would exist in an anhydrous residue.

Milligrams per liter is a unit expressing the number of milligrams of a constituent per liter of water.

pH is a measure of the degree of acidity or alkalinity. A pH of 7.0 indicates that the water is neutral. As the pH value decreases below 7.0, the acidity increases; and as the pH value increases above 7.0, the alkalinity increases.

Sodium-adsorption-ratio (SAR) is an expression of the relative activity of sodium ions in exchange reactions with soil and is an index of sodium (or alkali) hazard to the soil (U.S. Salinity Laboratory Staff, 1954, pp. 72-75).

Specific conductance is a measure of the ability of water to conduct an electrical current and is expressed in micromhos per centimeter at 25° C (degrees Celsius). Because the specific conductance is related to the concentration of dissolved ions, it can be used for approximating the salinity of the water. In the Snake Plain aquifer, the dissolved-solids concentration in milligrams per liter is approximately equal to 0.6 x specific conductance in micromhos per centimeter.

Specific Conductance

Figure 3 is a map depicting the pattern of specific conductance values measured in part of the Snake Plain aquifer in 1970. Values measured ranged from 260 to 1,560 micromhos per centimeter (table 2); however, most values were below 1,100 micromhos per centimeter.

Virtually all the irrigated areas sampled are underlain by waters having a specific conductance greater than 300 micromhos per centimeter and in five of these areas it exceeded 1,000 micromhos per centimeter. The highest specific conductance values measured were in water samples from three wells northwest of Mud Lake. These high values probably result, at least in part, from salts concentrated in ancient buried alluvium or lakebeds in this locality.

Chloride

As shown in figure 4, the distribution of chloride concentrations follows much the same overall pattern as does specific conductance. Chloride concentrations ranged from 7 mg/l to 325 mg/l, although most concentrations were between 10 mg/l and 160 mg/l in the irrigated areas. The high of 325 mg/l in a water sample from a well northwest of Mud Lake is probably, like specific conductance, closely related to the geological conditions of the area.

Nitrate

The general distribution of nitrate (fig. 5) in the aquifer is very similar to that of specific conductance and chloride. Concentrations ranged from less than 2 mg/l along the margins of irrigated areas to 32 mg/l in an area west of Blackfoot. In water samples from wells northwest of Mud Lake and north of Burley, nitrate concentrations of 16 and 18 mg/l were measured.

Orthophosphate

Concentrations of orthophosphate ranged from 0.00 to 0.23 mg/l with the higher concentrations representing samples collected from irrigation wells in Gooding, Lincoln, and Bingham Counties. However, all these concentrations are so low that no particular significance should be attributed to the pattern of their distribution or to seasonal changes occurring in individual wells. As shown in table 2, most orthophosphate concentrations were either zero or very near zero. The phosphomolybdate method used in the determination of orthophosphate is accurate and reproducible to a lower limit of ± 0.02 mg/l. Very low concentrations of orthophosphate are normally to be expected in ground water because of the tenacity with which phosphates may

be held to aquifer materials by either exchange processes or chemical reactions.

TEMPERATURE

Ground-water temperatures in the Snake Plain aquifer generally increase from the northeast to the southwest which is the principal direction of ground-water flow and the direction of increasing air temperatures at surface stations. Water temperatures ranged from 10.0°C to 20.0°C and averaged 12.4°C . Mean annual air temperatures reported by the U.S. Weather Bureau (1964) ranged from 5.9°C at St. Anthony on the upper end of the Plain to 10.1°C at Bliss at the lower extremity. Ground-water temperatures average about 4.4°C warmer than air temperatures at surface stations. The warmer temperature of ground water than mean surface air temperature can be largely attributed to (1) heat flow from the interior of the earth, (2) the warmer temperature of much of the recharge water, and (3) the frictional and mechanical heat gained when water flows through an aquifer. The heat flow from the interior of the earth probably accounts for the temperature near 20°C observed near the margin of the study area east of Idaho Falls.

FECAL COLIFORM BACTERIA

Ground-water samples collected from 46 irrigation wells were tested for the presence of fecal coliform bacteria (see table 2). In all tests, the results were negative, indicating the absence of these bacteria in the ground water sampled.

CONCLUSIONS

From the sampling program described in this report, the following conclusions and observations can be made.

1. The water in that part of the Snake Plain aquifer sampled in 1970 is generally of good chemical quality and is suitable for most purposes. In one sample from well 8N-33E-15dcbl (north of Montevue), the measured chloride-ion concentration of 325 mg/l exceeded the 250 mg/l upper limit recommended in the drinking water standards of the U.S. Public Health Service (1962). According to the U.S. Salinity Laboratory Staff (1954), a specific conductance value in excess of 750 micromhos per centimeter indicates a water with a high salinity hazard and the water should

be used only on soils having good permeability and drainage. Water from 35 of the sampled wells and one spring (table 2) had specific-conductance values exceeding 750 micromhos per centimeter.

2. Levels of chloride, nitrate, and dissolved solids greater than those generally found in the region occur in five distinct areas--northwest of Rupert, north of Lake Walcott, north of American Falls Reservoir, west of American Falls Reservoir, and near Montevideo northwest of Mud Lake. The cause of the higher concentrations in these areas is not known. Each is an area of intensive irrigation and may be underlain by a high proportion of sediments in contrast to the predominance of basalt occurring in surrounding parts of the Plain. Expansion of the sampling program into the surface-water irrigated areas and into the nonirrigated areas underlain by a larger proportion of basalt would provide data that might serve to show whether irrigation agriculture or subsurface geology is exerting the dominant control on water quality.

3. In evaluating the data presented in this report, it should be realized that most of the wells sampled were located within that part of the Snake River Plain irrigated by ground water. Few samples were collected from wells located in areas irrigated primarily by surface water. The samples collected probably do not, therefore, adequately reflect the effects of the large quantity of water that is recharged to the aquifer in surface-water irrigated areas by drain wells, unlined ditches, and irrigation water percolating below the root zone. It is also possible that the quality of the water discharged by some of the springs sampled either has not been affected by irrigation or that the effects are, as yet, too small to be recognized.

4. In several parts of the Snake Plain aquifer, the distribution of the various dissolved constituents is rather complex in that concentrations of these constituents may vary quite abruptly both laterally and with depth (F. N. Olmsted, written commun., 1962). It is for this reason that when a well is pumped for a season, the concentrations of dissolved constituents present may vary as water is drawn in varying proportions from different parts of the aquifer. In addition, wells near the centers of large ground-water irrigated areas may become slightly more saline toward the end of the irrigation season as some of the applied water, concentrated by evapotranspiration, seeps downward to the water table and is recycled. Although minor changes in concentrations of some constituents were noted at many locations, no well-defined seasonal trend for the sampled area as a whole could be established. A small part of the observed fluctuations in levels of specific conductance,

chloride, nitrate, orthophosphate, and temperature may be due to a certain amount of error inherent in the analytical procedures used. This is especially true for the orthophosphate values reported as most were at or near the lower detectable limit for the analytical procedure used.

5. Although no fecal coliform bacteria were found in any of the samples collected, this should not be construed as evidence proving that these bacteria do not exist anywhere in the ground water underlying the Plain. This is true because (1) in the ground-water irrigated area, sample coverage for this parameter is sparse and (2) only a very few samples were collected in areas irrigated by surface water and in areas where drain wells are abundant. A much larger number of samples should be collected to provide definitive information regarding the absence or presence of these bacteria.

SELECTED REFERENCES

- Hem, J. D., 1970, Study and interpretation of the chemical characteristics of natural water--second edition: U.S. Geol. Survey Water-Supply Paper 1473, 363 p.
- Norvitch, R. F., Thomas, C. A., and Madison, R. J., 1969, Artificial recharge to the Snake Plain aquifer; an evaluation of potential and effect: Idaho Water Information Bull. 12, 59 p.
- U.S. Public Health Service, 1962, Drinking water standards, 1962: U.S. Public Health Service Pub. 956, 61 p.
- U.S. Salinity Laboratory Staff, 1954, Diagnosis and improvement of saline and alkali soils: U.S. Dept. Agriculture Handb. 60, 160 p.
- U.S. Weather Bureau, 1964, Decennial census of United States climate--climatic summary of the United States--supplement for 1951 through 1960, Idaho: Climatography of the U.S. no. 86-8, 65 p.

Table 2. Chemical analyses of ground water from selected irrigation wells and springs, Snake Plain aquifer, southeastern Idaho.
(Chemical constituents in milligrams per liter)

Analyses by: G, U.S. Geological Survey; B, U.S. Bureau of Reclamation (except fecal coliform by U.S. Geological Survey)

Well or spring identification number	County	Reported well depth below land surface (feet)	Date of collection	Static water level below land surface (feet)	Pumping water level below land surface (feet)	Discharge (gpm)	Specific conductance (micromhos at 25° C)	pH	Temperature (° C)	Silica (SiO ₂)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Orthophosphate (PO ₄)	Boron (B)	Dissolved solids (calculated)	Total hardness as CaCO ₃	Sodium-adsorption- ratio (SAR)	Fecal coliform	Analysis by	
9N-43E-30cca1	Fremont	130	3-24-70	22.65	-	269	490	-	-	-	-	-	-	-	-	-	-	-	8.7	-	12	0.03	-	-	-	-	-	G
8N-33E-15dcb1	Jefferson	200	3-27-70	57.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G
			7-24-70	-	-	-	1,560	-	11.5	-	-	-	-	-	-	-	-	-	325	-	16	0	-	-	-	-	-	G
16acb1	Jefferson	-	5-26-70	132.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			7-24-70	-	221.20	1,740	478	-	14.0	-	-	-	-	-	-	-	-	48	-	6.0	0	-	-	-	-	-	-	G
			9- 9-70	-	219.70	1,760	-	-	13.5	-	-	-	-	-	-	-	-	52	-	5.6	.02	-	-	-	-	-	-	G
			9-10-70	-	-	-	488	7.8	-	33	55	15	14	5.0	160	0	24	47	0.4	7.1	.01	0	a280	200	0.4	0	B	
19dac1	Jefferson	-	4-23-70	235.43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			7-24-70	-	-	1,600	439	-	13.5	-	-	-	-	-	-	-	-	21	-	4.7	0	-	-	-	-	-	-	G
			9- 9-70	-	-	1,760	-	-	13.0	-	-	-	-	-	-	-	-	20	-	5.6	.04	-	-	-	-	-	-	G
			9-10-70	-	-	-	447	7.8	-	31	48	16	17	4.0	198	0	26	20	.3	5.7	.01	0	a266	185	.6	0	B	
20cbb1	Jefferson	350	7-26-70	-	-	2,560	474	-	12.0	-	-	-	-	-	-	-	-	39	-	5.9	0	-	-	-	-	-	-	G
21bcd1	Jefferson	-	7-24-70	-	-	1,480	317	-	13.5	-	-	-	-	-	-	-	-	14	-	2.2	0	-	-	-	-	-	-	G
28bdb1	Jefferson	232	3-19-58	84.98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			7-22-70	-	-	2,760	1,140	-	-	-	-	-	-	-	-	-	-	177	-	16	0	-	-	-	-	-	-	G
			9-15-70	-	-	3,120	-	-	10.5	-	-	-	-	-	-	-	-	161	-	14	.04	-	-	-	-	-	-	G
			9-15-70	-	-	3,120	1,120	7.9	-	36	118	35	45	5.0	226	0	112	161	.2	15	0	.04	a638	440	.9	-	B	
8N-36E-27dac1	Jefferson	150	3-25-70	39.95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			7-27-70	-	45.05	4,040	285	-	13.0	-	-	-	-	-	-	-	-	12	-	7.7	.03	-	-	-	-	-	-	G
8N-37E-29cbd1	Fremont	200	3-26-70	122.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			7-27-70	-	125.17	2,770	260	-	15.0	-	-	-	-	-	-	-	-	6.5	-	4.5	0	-	-	-	-	-	-	G
7N-33E- 2bdb1	Jefferson	335	3-28-70	57.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			7-26-70	-	-	2,190	435	-	11.0	-	-	-	-	-	-	-	-	27	-	.2	0	-	-	-	-	-	-	G
13bdb1	Jefferson	285	4- 7-70	35.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			7-22-70	-	103.80	1,100	290	-	-	-	-	-	-	-	-	-	-	8.0	-	0	.02	-	-	-	-	-	-	G
15cdcl	Jefferson	600	7-22-70	-	-	2,240	338	-	14.0	-	-	-	-	-	-	-	-	14	-	1.1	.01	-	-	-	-	-	-	G
7N-34E- 9abd1	Jefferson	-	4-23-70	3.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			7-26-70	-	21.69	-	330	-	12.0	-	-	-	-	-	-	-	-	17	-	3.0	.03	-	-	-	-	-	-	G
			9-15-70	-	20.75	6,820	-	-	11.0	-	-	-	-	-	-	-	-	14	-	2.5	.05	-	-	-	-	-	-	G
10cdd1	Jefferson	75	7-26-70	-	-	3,540	605	-	12.5	-	-	-	-	-	-	-	-	60	-	7.8	.05	-	-	-	-	-	-	G
			9- 9-70	-	-	3,280	-	-	11.5	-	-	-	-	-	-	-	-	43	-	6.1	.09	-	-	-	-	-	-	G
			9-10-70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7N-36E-10aab1	Jefferson	-	3-26-70	96.19	-	-	523	7.7	-	32	47	16	32	4.0	193	0	26	43	.4	5.5	.03	.01	a301	183	1.0	0	B	
			7-27-70	-	97.74	-	279	-	12.5	-	-	-	-	-	-	-	-	12	-	4.2	.01	-	-	-	-	-	-	G

Table 2. Chemical analyses of ground water from selected irrigation wells and springs, Snake Plain aquifer, southeastern Idaho--Continued.

Well or spring identification number	County	Reported well depth below land surface (feet)	Date of collection	Static water level below land surface (feet)	Pumping water level below land surface (feet)	Discharge (gpm)	Specific conductance (micromhos at 25° C)	pH	Temperature (° C)	Silica (SiO ₂)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Orthophosphate (PO ₄)	Boron (B)	Dissolved solids (calculated)	Total hardness as CaCO ₃	Sodium-adsorption- ratio (SAR)	Fecal coliform	Analysis by
3N-35E- 2bcb1	Bonneville	690	7-17-70	-	-	4,650	518	-	10.5	-	-	-	-	-	-	-	-	21	-	3.9	.01	-	-	-	-	-	G
14ddcl	Bonneville	-	7-20-70	-	-	2,950	517	-	10.5	-	-	-	-	-	-	-	-	14	-	4.0	0	-	-	-	-	-	G
3N-36E- 8bad1	Bonneville	470	5-25-70	378.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G
			7-16-70	-	383.50	1,570	504	-	10.5	-	-	-	-	-	-	-	-	14	-	4.5	0	-	-	-	-	-	G
12bdal	Bonneville	470	3-31-70	429.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G
			7-16-70	-	-	2,740	512	-	10.5	-	-	-	-	-	-	-	-	14	-	5.1	.04	-	-	-	-	-	G
14acal	Bonneville	-	7-16-70	-	-	2,000	505	-	10.0	-	-	-	-	-	-	-	-	14	-	4.0	0	-	-	-	-	-	G
			9-10-70	-	-	1,800	-	-	9.5	-	-	-	-	-	-	-	-	12	-	3.8	.04	-	-	-	-	-	G
			9-10-70	-	-	1,800	512	7.8	-	20	62	17	17	4.0	235	0	47	13	0.4	4.1	.01	0.06	a300	226	0.5	0	B
17adcl	Bonneville	493	4-25-70	369.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G
			7-14-70	-	375.70	2,450	500	-	10.5	-	-	-	-	-	-	-	-	15	-	3.3	.01	-	-	-	-	-	G
18bab1	Bonneville	500	4- 1-70	412.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G
			7-14-70	-	418.11	2,160	518	-	11.0	-	-	-	-	-	-	-	-	16	-	3.4	0	-	-	-	-	-	G
			9-23-70	-	-	-	-	-	10.0	-	-	-	-	-	-	-	-	14	-	4.1	.04	-	-	-	-	-	G
19adal	Bonneville	556	7-17-70	-	-	1,780	505	-	10.5	-	-	-	-	-	-	-	-	15	-	3.7	.01	-	-	-	-	-	G
			9-10-70	-	-	1,640	-	-	10.0	-	-	-	-	-	-	-	-	14	-	2.8	.03	-	-	-	-	-	G
			9-10-70	-	-	1,640	516	7.8	-	20	62	17	17	4.0	234	0	48	13	.4	3.3	.01	.07	a300	225	.5	0	B
20cdbl	Bonneville	-	5-12-70	386.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G
			7-14-70	-	396.15	3,460	501	-	10.5	-	-	-	-	-	-	-	-	14	-	3.1	.01	-	-	-	-	-	G
			9-23-70	-	389.85	3,410	-	-	10.0	-	-	-	-	-	-	-	-	14	-	2.8	.04	-	-	-	-	-	G
3N-37E-18bba1	Bonneville	-	4- 1-70	415.91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G
			7-16-70	-	-	2,940	500	-	11.0	-	-	-	-	-	-	-	-	13	-	4.5	.02	-	-	-	-	-	G
31dbcl	Bonneville	360	4-25-70	247.42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G
			7-16-70	-	246.65	2,000	539	-	10.5	-	-	-	-	-	-	-	-	16	-	5.2	0	-	-	-	-	-	G
			9-10-70	-	233.95	2,040	-	-	10.0	-	-	-	-	-	-	-	-	14	-	4.8	.03	-	-	-	-	-	G
			9-10-70	-	233.95	2,040	556	7.7	-	20	62	21	21	4.0	259	0	49	15	.4	5.8	.01	.04	a326	239	.6	0	B
2N-36E-13cdal	Bonneville	476	7-14-70	-	-	1,860	509	-	10.0	-	-	-	-	-	-	-	-	18	-	3.3	0	-	-	-	-	-	G
23dgal	Bonneville	-	4-21-70	209.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G
			7-14-70	-	-	1,530	545	-	11.0	-	-	-	-	-	-	-	-	15	-	5.7	0	-	-	-	-	-	G
			9-11-70	-	-	1,260	-	-	10.0	-	-	-	-	-	-	-	-	13	-	5.7	.02	-	-	-	-	-	G
			9-11-70	-	-	1,260	563	7.8	-	20	67	20	20	4.0	276	0	44	13	.4	7.0	.02	.03	a331	249	.6	0	B
24bdal	Bonneville	335	4- 2-70	214.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G
			7-13-70	-	218.60	731	539	-	11.0	-	-	-	-	-	-	-	-	16	-	5.0	0	-	-	-	-	-	G
			9-16-70	-	211.30	701	-	-	10.0	-	-	-	-	-	-	-	-	12	-	6.7	.03	-	-	-	-	-	G
2N-39E-30adal	Bonneville	-	7-16-70	-	-	939	586	-	20.0	-	-	-	-	-	-	-	-	57	-	2.8	.02	-	-	-	-	-	G
			9- 8-70	204.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G

1N-31E- 3cdd1	Bingham	720	7-29-70	-	2,980	339	-	12.0	-	-	-	-	-	-	-	17	-	3.5	0	-	-	-	-	-	G
1N-33E-26dbc1	Bingham	-	7- 9-70	-	2,440	500	-	10.5	-	-	-	-	-	-	-	19	-	3.6	0	-	-	-	-	-	G
1N-35E-16cdal	Bingham	420	4- 9-70	373.34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			7-13-70	-	1,440	531	-	11.0	-	-	-	-	-	-	16	-	5.7	.01	-	-	-	-	-	-	G
			9- 2-70	-	1,140	-	-	10.0	-	-	-	-	-	-	15	-	5.2	.02	-	-	-	-	-	-	G
29cac1	Bingham	413	4- 9-70	312.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1N-36E-27bad1	Bingham	378	7- 8-70	313.65	1,990	575	-	11.0	-	-	-	-	-	-	-	16	-	7.0	0	-	-	-	-	-	G
			5-27-70	198.41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			7-13-70	-	2,090	604	-	-	-	-	-	-	-	-	20	-	9.5	0	-	-	-	-	-	-	G
1S-32E-22bbd1	Bingham	410	4-25-70	315.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			7- 1-70	318.10	1,230	294	-	13.5	-	-	-	-	-	-	10	-	2.2	0	-	-	-	-	-	-	G
			9- 3-70	317.90	1,160	-	-	13.0	-	-	-	-	-	-	9.1	-	3.1	.02	-	-	-	-	-	-	G
			9- 8-70	-	-	299	7.8	-	33	29	10	16	4.0	144	0	16	8.5	0.9	2.3	.01	0	a190	113	0.6	0
25cdb1	Bingham	338	5-13-70	249.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			7- 9-70	-	1,100	501	-	-	-	-	-	-	-	-	-	22	-	3.3	.01	-	-	-	-	-	G
1S-33E-11aad1	Bingham	-	7-29-70	-	2,780	511	-	10.5	-	-	-	-	-	-	-	19	-	3.2	.01	-	-	-	-	-	G
11bcc1	Bingham	380	7- 1-70	284.75	975	512	-	10.5	-	-	-	-	-	-	-	19	-	3.5	0	-	-	-	-	-	G
1S-34E-36dcb1	Bingham	-	5- 2-70	95.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			7- 2-70	104.40	1,450	589	-	10.5	-	-	-	-	-	-	28	-	5.8	.01	-	-	-	-	-	-	G
			8-28-70	103.56	1,420	-	-	10.0	-	-	-	-	-	-	34	-	6.8	.04	-	-	-	-	-	-	G
			9- 9-70	-	-	650	7.7	-	24	72	20	30	6.0	265	0	55	36	.6	5.8	.02	.04	a379	261	.8	0
1S-35E- 1cbb1	Bingham	-	5-13-70	214.98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			7- 8-70	-	1,460	587	-	12.5	-	-	-	-	-	-	15	-	10	.02	-	-	-	-	-	-	G
			9- 2-70	-	1,050	-	-	11.0	-	-	-	-	-	-	15	-	9.6	.04	-	-	-	-	-	-	G
11aaa1	Bingham	235	4- 9-70	183.57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			7- 8-70	185.30	590	586	-	12.0	-	-	-	-	-	-	16	-	7.9	.01	-	-	-	-	-	-	G
12dcb1	Bingham	292	5-27-70	164.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
14dda1	Bingham	297	7- 8-70	165.30	1,850	566	-	-	-	-	-	-	-	-	-	18	-	7.0	0	-	-	-	-	-	G
			4- 9-70	130.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			7- 8-70	143.70	2,300	560	-	11.0	-	-	-	-	-	-	24	-	5.6	0	-	-	-	-	-	-	G
			9- 2-70	137.55	1,450	-	-	10.0	-	-	-	-	-	-	20	-	5.7	.02	-	-	-	-	-	G	
22ada1	Bingham	199	4-25-70	63.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			7- 8-70	68.40	1,410	572	-	11.0	-	-	-	-	-	-	24	-	5.7	0	-	-	-	-	-	-	G
			9- 2-70	66.75	1,170	-	-	10.0	-	-	-	-	-	-	26	-	6.3	.04	-	-	-	-	-	-	G
			9- 9-70	-	-	563	7.8	-	23	69	18	24	5.0	264	0	47	25	.7	6.5	.01	0	a348	248	.7	0
2S-32E-24dcb1	Bingham	235	7- 9-70	-	2,160	571	-	10.5	-	-	-	-	-	-	-	28	-	5.7	.02	-	-	-	-	-	G

Table 2. Chemical analyses of ground water from selected irrigation wells and springs, Snake Plain aquifer, southeastern Idaho--Continued.

91

Well or spring identification number	County	Reported well depth below land surface (feet)	Date of collection	Static water level below land surface (feet)	Pumping water level below land surface (feet)	Discharge (gpm)	Specific conductance (micromhos at 25° C)	pH	Temperature (° C)	Silica (SiO ₂)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Orthophosphate (PO ₄)	Boron (B)	Dissolved solids (calculated)	Total hardness as CaCO ₃	Sodium-adsorption- ratio (SAR)	Fecal coliform	Analysis by	
2S-32E-35abc1	Bingham	-	4-22-70	146.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G
			6-25-70	-	150.00	914	566	-	10.5	-	-	-	-	-	-	-	-	28	-	-	5.1	0	-	-	-	-	-	G
			9- 1-70	-	148.65	730	-	-	9.5	-	-	-	-	-	-	-	-	30	-	-	5.3	0	-	-	-	-	-	G
			9- 8-70	-	-	-	588	7.8	-	24	65	20	22	6.0	234	0	57	28	0.4	4.8	.01	0.03	a342	245	0.6	0	B	
36cab1	Bingham	-	6-25-70	-	-	1,670	623	-	10.5	-	-	-	-	-	-	-	-	36	-	-	5.4	.01	-	-	-	-	-	G
2S-33E- 2aba1	Bingham	265	5-13-70	169.98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			6-26-70	-	175.00	1,470	644	-	10.5	-	-	-	-	-	-	-	-	35	-	-	7.6	0	-	-	-	-	-	G
			9-17-70	-	176.20	1,440	-	-	9.5	-	-	-	-	-	-	-	-	45	-	-	7.5	.02	-	-	-	-	-	G
8abc1	Bingham	250	9-17-57	171.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			7- 2-70	-	-	1,880	597	-	10.5	-	-	-	-	-	-	-	-	32	-	-	5.5	0	-	-	-	-	-	G
			9-22-70	-	-	2,040	-	-	9.5	-	-	-	-	-	-	-	-	30	-	-	5.2	.01	-	-	-	-	-	G
8dab1	Bingham	181	4- 7-70	155.44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			6-24-70	-	155.60	1,310	747	-	10.5	-	-	-	-	-	-	-	-	68	-	-	6.9	0	-	-	-	-	-	G
10bcd1	Bingham	250	4-25-70	154.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			7- 9-70	-	-	832	654	-	10.5	-	-	-	-	-	-	-	-	40	-	-	8.2	0	-	-	-	-	-	G
10dcb1	Bingham	-	4-25-70	141.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			6-25-70	-	-	910	606	-	-	-	-	-	-	-	-	-	-	26	-	-	6.4	0	-	-	-	-	-	G
19abc1	Bingham	269	4- 9-70	163.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			6-25-70	-	-	797	566	-	11.0	-	-	-	-	-	-	-	-	26	-	-	5.5	0	-	-	-	-	-	G
			9- 3-70	-	-	976	-	-	10.0	-	-	-	-	-	-	-	-	24	-	-	5.7	.03	-	-	-	-	-	G
			9- 9-70	-	-	-	572	7.8	-	25	64	20	22	5.0	243	0	55	24	.4	5.3	.01	.05	a341	244	.6	0	B	
27baa1	Bingham	196	4- 8-70	96.98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			6-24-70	-	104.05	1,620	647	-	11.0	-	-	-	-	-	-	-	-	42	-	-	6.8	0	-	-	-	-	-	G
			8-27-70	-	106.97	1,610	-	-	10.0	-	-	-	-	-	-	-	-	47	-	-	8.2	.09	-	-	-	-	-	G
29aca1	Bingham	-	6-25-70	-	-	1,100	877	-	10.5	-	-	-	-	-	-	-	-	88	-	-	8.8	0	-	-	-	-	-	G
34bda1	Bingham	200	6-24-70	-	-	1,700	811	-	11.0	-	-	-	-	-	-	-	-	81	-	-	7.9	.01	-	-	-	-	-	G
35ccb1	Bingham	150	6-24-70	-	-	950	1,070	-	11.0	-	-	-	-	-	-	-	-	122	-	-	11	.01	-	-	-	-	-	G
			8-27-70	-	-	950	-	-	9.5	-	-	-	-	-	-	-	-	117	-	-	12	.03	-	-	-	-	-	G
2S-34E- 3aac1	Bingham	100	5-27-70	58.37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			7-28-70	-	-	1,640	602	-	11.0	-	-	-	-	-	-	-	-	29	-	-	6.1	0	-	-	-	-	-	G
			8-28-70	-	-	-	-	-	10.0	-	-	-	-	-	-	-	-	33	-	-	7.0	.04	-	-	-	-	-	G
			9-17-70	-	70.00	1,510	-	-	10.0	-	-	-	-	-	-	-	-	31	-	-	7.0	.07	-	-	-	-	-	G
3baa1	Bingham	140	6-23-70	-	66.75	960	586	-	11.0	-	-	-	-	-	-	-	-	28	-	-	6.2	0	-	-	-	-	-	G
			9- 2-70	-	65.80	950	-	-	10.5	-	-	-	-	-	-	-	-	28	-	-	8.9	.05	-	-	-	-	-	G
			9- 9-70	-	-	-	614	7.7	-	24	68	19	28	6.0	268	0	48	27	.6	7.6	.01	.05	a360	250	.8	0	B	
5ccd1	Bingham	234	4- 7-70	116.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			6-23-70	-	118.65	1,660	677	-	11.5	-	-	-	-	-	-	-	-	46	-	-	8.0	.01	-	-	-	-	-	G

Table 2. Chemical analyses of ground water from selected irrigation wells and springs, Snake Plain aquifer, southeastern Idaho--Continued.

Well or spring identification number	County	Reported well depth below land surface (feet)	Date of collection	Static water level below land surface (feet)	Pumping water level below land surface (feet)	Discharge (gpm)	Specific conductance (micromhos at 25° C)	pH	Temperature (° C)	Silica (SiO ₂)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Orthophosphate (PO ₄)	Boron (B)	Dissolved solids (calculated)	Total hardness as CaCO ₃	Sodium-adsorption- ratio (SAR)	Fecal coliform	Analysis by	
3S-32E- 6dbc1	Bingham	-	7- 1-70	-	-	1,140	556	-	10.5	-	-	-	-	-	-	-	-	34	-	3.7	0	-	-	-	-	-	-	G
			9-14-70	-	-	952	-	-	10.0	-	-	-	-	-	-	-	-	43	-	4.5	.02	-	-	-	-	-	-	G
8aac1	Bingham	190	4-22-70	128.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G
			6-25-70	-	-	1,070	667	-	10.5	-	-	-	-	-	-	-	-	42	-	32	0	-	-	-	-	-	-	G
9dca1	Bingham	135	6-24-70	-	-	2,080	780	-	11.0	-	-	-	-	-	-	-	-	80	-	5.6	0	-	-	-	-	-	-	G
			8-27-70	-	-	1,980	-	-	9.5	-	-	-	-	-	-	-	-	69	-	6.2	.05	-	-	-	-	-	-	G
11dac1	Bingham	-	4-22-70	76.31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G
			7- 1-70	-	76.70	1,550	752	-	10.5	-	-	-	-	-	-	-	-	66	-	6.5	0	-	-	-	-	-	-	G
13aba1	Bingham	135	5- 2-70	78.47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			6-24-70	-	80.75	992	852	-	10.5	-	-	-	-	-	-	-	-	93	-	7.2	0	-	-	-	-	-	-	G
			8-27-70	-	80.80	921	-	-	9.5	-	-	-	-	-	-	-	-	126	-	9.2	.07	-	-	-	-	-	-	G
			9- 4-70	-	-	-	1,090	7.7	-	24	87	37	75	7.0	264	0	119	127	0.4	10	.02	0.12	a617	369	1.7	0	B	
19bda1	Bingham	150	7- 9-70	-	-	1,160	620	-	-	-	-	-	-	-	-	-	-	46	-	4.7	.01	-	-	-	-	-	-	G
3S-33E- 6ddb1	Bingham	195	4-22-70	94.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			7- 1-70	-	95.85	932	1,020	-	10.5	-	-	-	-	-	-	-	-	122	-	11	.04	-	-	-	-	-	-	G
29bba1	Bingham	120	4-21-70	62.71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			7- 1-70	-	62.82	649	1,100	-	10.5	-	-	-	-	-	-	-	-	147	-	8.6	.02	-	-	-	-	-	-	G
			9- 8-70	-	-	-	1,210	7.8	-	26	96	38	87	8.0	298	0	122	143	.5	12	.03	.15	a679	396	1.9	0	B	
3S-34E-30cab1	Bingham	150	5- 2-70	39.40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			7- 1-70	-	42.55	636	544	-	12.0	-	-	-	-	-	-	-	-	18	-	5.4	0	-	-	-	-	-	-	G
			8-27-70	-	43.50	873	-	-	10.0	-	-	-	-	-	-	-	-	16	-	5.3	.04	-	-	-	-	-	-	G
			9- 4-70	-	-	-	562	7.7	-	25	64	18	22	4.0	263	0	40	17	.6	4.4	.01	.05	a325	237	.6	0	B	
4S-31E- 5cbc1	Bingham	-	5-26-70	183.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			6-16-70	-	188.60	1,990	419	-	11.5	-	-	-	-	-	-	-	-	18	-	2.4	0	-	-	-	-	-	-	G
			8-26-70	-	189.12	1,810	-	-	10.5	-	-	-	-	-	-	-	-	19	-	2.6	.03	-	-	-	-	-	-	G
			9- 8-70	-	-	-	468	7.8	-	30	46	16	23	4.0	185	0	43	23	.7	2.4	.01	.03	a279	178	.8	0	B	
11adb1	Bingham	207	6-22-70	-	-	1,300	587	-	11.0	-	-	-	-	-	-	-	-	31	-	4.4	0	-	-	-	-	-	-	G
			9- 8-70	-	-	1,320	-	-	9.5	-	-	-	-	-	-	-	-	32	-	5.7	.05	-	-	-	-	-	-	G
22ddb1	Bingham	48	6-18-70	-	-	893	555	-	13.0	-	-	-	-	-	-	-	-	32	-	4.5	0	-	-	-	-	-	-	G
			8-26-70	-	-	819	-	-	12.0	-	-	-	-	-	-	-	-	32	-	5.2	.06	-	-	-	-	-	-	G
			9- 2-70	-	-	-	586	7.7	-	26	53	22	33	5.0	234	0	54	32	.5	4.2	.03	.07	a345	221	1.0	0	B	
4S-33E- 4cdd1	Bingham	102	5-27-70	51.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			6-30-70	-	55.40	543	733	-	11.0	-	-	-	-	-	-	-	-	58	-	4.8	.01	-	-	-	-	-	-	G
			8-27-70	-	54.30	541	-	-	11.0	-	-	-	-	-	-	-	-	48	-	6.8	.11	-	-	-	-	-	-	G
			9- 4-70	-	-	-	817	7.6	-	31	65	31	57	7.0	332	0	66	48	.7	6.2	.04	.14	a476	289	1.5	0	B	
20bdb1	Bingham	56	4- 8-70	36.39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			7- 7-70	-	-	1,080	827	-	12.5	-	-	-	-	-	-	-	-	78	-	7.1	.02	-	-	-	-	-	-	G

Danielson Creek- 13069540 ^{cd}	Bingham	4- 2-70			b51.4	696	7.9	-	31	67	24	40	5.6	258	0	74	49	0.6	6.9	-	-	425	-	-	-	G
		9- 5-70			b66.4	631	7.8	12.5	11	59	23	38	6.4	272	0	55	35	.7	3.5	-	-	355	-	-	-	G
Spring Creek- 13075980 ^{cd}	Bingham	3-20-70			b310	493	7.9	11.0	25	58	16	21	3.9	238	0	38	18	.7	4.2	-	-	302	-	-	-	G
		10- 6-70			b291	494	8.0	11.5	28	60	16	21	3.9	239	0	50	17	.3	1.3	-	-	311	216	-	-	G
4S-34E-11dbd1	Bingham	270 4-21-70	36.72																						-	
		7- 1-70		50.00	2,200	525	-	13.0	-	-	-	-	-	-	-	-	13	-	4.7	0	-	-	-	-	G	
5S-30E- 8cdcl	Bingham	- 6-16-70		-	2,850	316	-	14.0	-	-	-	-	-	-	-	-	11	-	2.1	0	-	-	-	-	G	
		8-26-70		-	2,630	-	-	13.0	-	-	-	-	-	-	-	-	13	-	2.3	.03	-	-	-	-	G	
		9- 2-70		-	-	357	7.9	-	32	32	12	16	3.0	149	0	23	14	.7	2.8	.01	0.05	a208	130	0.6	0	B
10cdbl	Bingham	- 6-16-70		-	2,250	328	-	13.0	-	-	-	-	-	-	-	-	15	-	2.0	0	-	-	-	-	G	
		8-26-70		-	2,000	-	-	13.0	-	-	-	-	-	-	-	-	19	-	2.7	0	-	-	-	-	G	
14bbd1	Bingham	180 5- 1-70	134.40			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		6-18-70		135.45	806	361	-	13.0	-	-	-	-	-	-	-	-	15	-	1.5	.01	-	-	-	-	G	
		8-26-70		135.60	1,130	-	-	12.0	-	-	-	-	-	-	-	-	14	-	2.1	.02	-	-	-	-	G	
		9- 2-70		-	-	357	7.8	-	30	37	13	17	4.0	163	0	30	13	.8	2.6	.01	.06	a227	145	.6	0	B
15bac1	Bingham	368 6-23-70		-	898	327	-	13.0	-	-	-	-	-	-	-	-	12	-	1.9	0	-	-	-	-	G	
		8-26-70		-	903	-	-	12.5	-	-	-	-	-	-	-	-	14	-	2.6	.02	-	-	-	-	G	
		9- 2-70		-	-	324	7.9	-	30	33	12	17	4.0	155	0	25	13	.8	2.6	.01	.08	a213	133	.6	0	B
15ccal	Bingham	322 5- 1-70	189.70			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		7- 7-70		191.10	1,080	334	-	13.5	-	-	-	-	-	-	-	-	14	-	2.2	0	-	-	-	-	G	
17ddcl	Bingham	- 5- 2-70	308.65			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		7- 7-70		309.20	1,340	321	-	15.0	-	-	-	-	-	-	-	-	15	-	2.2	0	-	-	-	-	G	
		8-26-70		310.60	1,210	-	-	14.0	-	-	-	-	-	-	-	-	17	-	3.0	.01	-	-	-	-	G	
		9- 2-70		-	-	333	7.8	-	32	32	13	18	4.0	150	0	23	16	.7	3.3	.01	.04	a216	134	.7	0	B
22aac1	Bingham	- 5- 1-70	161.62			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		6-17-70		164.00	1,070	352	-	12.5	-	-	-	-	-	-	-	-	15	-	2.1	.01	-	-	-	-	G	
		8-20-70		164.20	924	-	-	12.0	-	-	-	-	-	-	-	-	15	-	2.0	0	-	-	-	-	G	
		9- 2-70		-	-	362	7.7	-	30	36	12	17	3.0	159	0	27	14	.8	2.5	.01	.03	a220	140	.6	0	B
5S-31E- 9acc1	Bingham	200 5- 1-70	61.44			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		6-16-70		64.70	1,320	826	-	11.5	-	-	-	-	-	-	-	-	60	-	7.4	0	-	-	-	-	G	
		9- 4-70		64.20	1,300	-	-	11.0	-	-	-	-	-	-	-	-	64	-	8.5	.07	-	-	-	-	G	
		9- 4-70		64.20	1,300	860	7.7	-	26	64	27	83	6.0	331	0	85	63	.5	7.7	.04	.15	a525	272	2.2	-	B
35dbal	Bingham	200 6-18-70		-	1,070	1,060	-	-	-	-	-	-	-	-	-	-	55	-	11	.22	-	-	-	-	G	
		9- 2-70		-	-	969	7.7	12.5	32	67	43	79	10	394	0	130	44	.6	10	.08	.15	a610	345	1.8	0	B
Kinney Creek - 13075970 ^{cd}	Bannock	4-14-70		b20.0	534	8.1	10.0	26	59	18	23	3.6	238	0	45	23	.8	4.3	-	-	320	-	-	-	G	
		9- 5-70		b28.5	512	8.0	10.0	13	59	17	22	3.9	236	0	38	24	.8	4.6	-	-	298	-	-	-	G	
Wide Creek - 13075920 ^{cd}	Bannock	4- 2-70		b78.2	493	8.5	10.5	27	50	17	25	4.2	186	6.0	51	27	.7	2.9	-	-	303	-	-	-	G	
		9- 5-70		b54.7	477	8.0	11.0	16	56	16	19	3.6	231	0	31	18	.8	4.0	-	-	278	-	-	-	G	

Table 2. Chemical analyses of ground water from selected irrigation wells and springs, Snake Plain aquifer, southeastern Idaho--Continued.

Well or spring identification number	County	Reported well depth below land surface (feet)	Date of collection	Static water level below land surface (feet)	Pumping water level below land surface (feet)	Discharge (gpm)	Specific conductance (micromhos at 25° C)	pH	Temperature (° C)	Silica (SiO ₂)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Orthophosphate (PO ₄)	Boron (B)	Dissolved solids (calculated)	Total hardness as CaCO ₃	Sodium-adsorption-ratio (SAR)	Fecal coliform	Analysis by
6S-13E-12aaal	Gooding	160	4-20-70	83.04																							
			6- 1-70		89.13	1,450	805	-	15.0	-	-	-	-	-	-	-	-	34	-	12	0.16	-	-	-	-	-	G
			8-17-70		85.10	1,500	-	-	13.5	-	-	-	-	-	-	-	-	32	-	11	.23	-	-	-	-	-	G
			8-31-70		-	-	760	7.5	-	37	66	30	55	5.0	342	0	84	29	0.5	11	.08	.12	a485	290	1.4	0	B
Short Creek- 13153713cd	Gooding		3-18-70			b12.0	718	7.8	14.0	36	70	26	44	4.7	320	0	69	30	.2	9.8	-	-	447	-	-	-	G
			9-21-70			b13.3	692	8.0	14.0	26	70	25	44	5.0	323	0	65	29	.4	10	-	-	433	-	-	-	G
Cove Creek- 13152900cd	Gooding		4-10-70			b60.0	433	8.0	15.0	33	40	18	24	3.6	209	0	34	14	.4	6.8	-	-	277	-	-	-	G
			9-21-70			b71.5	430	8.0	15.0	23	41	18	22	4.1	215	0	31	14	.4	4.9	-	-	264	-	-	-	G
Birch Creek- 13135100cd	Gooding		3-29-70			b8.5	364	-	13.0	-	-	-	-	-	-	-	-	14	-	-	-	-	-	-	-	-	G
6S-14E-18aaal	Gooding	115	4-12-70	79.44																							
			6- 1-70		-	1,740	743	-	15.0	-	-	-	-	-	-	-	-	34	-	10	.12	-	-	-	-	-	G
			8- 4-70		77.93	1,800	-	-	13.5	-	-	-	-	-	-	-	-	30	-	10	.15	-	-	-	-	-	G
			8-31-70		-	-	752	7.6	-	36	72	29	44	5.0	329	0	82	30	.4	11	.05	.05	a471	298	1.1	0	B
6S-15E-30abel	Gooding	-	4-27-70	253.02																							
			6- 2-70		254.00	455	366	-	14.0	-	-	-	-	-	-	-	-	10	-	4.7	.03	-	-	-	-	-	G
			8- 4-70		247.29	511	-	-	14.0	-	-	-	-	-	-	-	-	6.5	-	3.1	0	-	-	-	-	-	G
6S-18E-21dcal	Lincoln	235	5-11-70	148.43																							
			6- 2-70		151.70	2,080	452	-	15.5	-	-	-	-	-	-	-	-	15	-	5.4	.18	-	-	-	-	-	G
			9- 1-70		-	-	521	7.7	-	32	54	21	22	4.0	245	0	43	16	.6	5.1	.13	.06	a319	218	.6	0	B
6S-24E-31cdal 33ccd1	Minidoka	350	6-10-70		-	1,380	357	-	13.5	-	-	-	-	-	-	-	-	18	-	1.9	0	-	-	-	-	-	G
	Minidoka	350	10-29-53	254.97																							
			6- 9-70		-	1,370	339	-	13.0	-	-	-	-	-	-	-	-	15	-	1.3	0	-	-	-	-	-	G
			8-18-70		-	853	-	-	13.5	-	-	-	-	-	-	-	-	14	-	1.3	0	-	-	-	-	-	G
33ddb1	Minidoka	318	4-11-70	239.66																							
			6-30-70		241.10	953	349	-	13.5	-	-	-	-	-	-	-	-	14	-	1.4	0	-	-	-	-	-	G
			8-18-70		243.25	967	-	-	12.5	-	-	-	-	-	-	-	-	14	-	1.0	0	-	-	-	-	-	G
6S-30E-11bdal	Bingham	252	6-17-70		-	994	490	-	11.5	-	-	-	-	-	-	-	-	28	-	2.5	.01	-	-	-	-	-	G
			8-25-70		-	1,090	-	-	10.5	-	-	-	-	-	-	-	-	26	-	3.2	.03	-	-	-	-	-	G
			9- 2-70		-	-	495	7.8	-	28	51	18	21	4.0	193	0	53	25	.5	3.1	.01	.05	a299	199	.6	0	B
13acal	Bingham	127	5- 1-70	96.40																							
			6-17-70		-	1,420	650	-	11.5	-	-	-	-	-	-	-	-	46	-	5.0	0	-	-	-	-	-	G
			8-20-70		109.50	1,420	-	-	-	-	-	-	-	-	-	-	-	44	-	5.8	0	-	-	-	-	-	G
21cac1	Bingham	345	6-17-70		-	789	408	-	12.0	-	-	-	-	-	-	-	-	20	-	2.1	0	-	-	-	-	-	G
			8-25-70		-	886	-	-	11.5	-	-	-	-	-	-	-	-	19	-	2.3	.01	-	-	-	-	-	G
			9- 3-70		-	-	412	7.7	-	28	42	15	18	4.0	170	0	35	19	.7	2.1	0	.06	a248	166	.6	0	B

6S-30E-23dca1	Bingham	195	6-17-70	-	1,060	628	-	11.0	-	-	-	-	-	-	-	-	45	-	4.9	0	-	-	-	-	-	-	G
			9- 3-70	-	-	646	7.9	-	26	64	22	33	6.0	231	0	63	43	0.4	4.2	.02	0.10	a376	248	0.9	0	B	G
			9- 4-70	-	1,060	-	-	10.0	-	-	-	-	-	-	-	-	45	-	4.8	.06	-	-	-	-	-	-	G
24aba1	Bingham	134	5- 1-70	90.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G
			6-22-70	-	554	679	-	11.5	-	-	-	-	-	-	-	-	44	-	6.4	0	-	-	-	-	-	-	G
			8-20-70	-	553	-	-	11.0	-	-	-	-	-	-	-	-	43	-	8.1	.02	-	-	-	-	-	-	G
33bab1	Power	242	6-17-70	-	1,100	529	-	11.5	-	-	-	-	-	-	-	-	32	-	2.8	0	-	-	-	-	-	-	G
			8-25-70	-	1,450	-	-	10.5	-	-	-	-	-	-	-	-	33	-	3.2	.02	-	-	-	-	-	-	G
			9- 3-70	-	-	521	7.6	-	26	56	19	22	4.0	199	0	52	30	.5	2.4	.01	.08	a310	216	.7	0	B	G
34bdb1	Power	225	6-22-70	-	1,060	636	-	11.0	-	-	-	-	-	-	-	-	45	-	4.8	0	-	-	-	-	-	-	G
			8-20-70	-	1,010	-	-	10.5	-	-	-	-	-	-	-	-	45	-	5.9	.05	-	-	-	-	-	-	G
			9- 3-70	-	-	680	7.7	-	25	64	22	35	6.0	237	0	65	43	.4	5.1	.02	.11	a383	250	1.0	0	B	G
35adb1	Power	-	6-22-70	-	859	712	-	-	-	-	-	-	-	-	-	-	44	-	7.7	0	-	-	-	-	-	-	G
			8-20-70	-	883	-	-	11.0	-	-	-	-	-	-	-	-	50	-	9.1	.11	-	-	-	-	-	-	G
			9- 3-70	-	-	756	7.7	-	26	69	24	53	5.0	281	0	79	48	.4	8.2	.02	.13	a451	270	1.6	-	B	G
6S-31E-18cdbl	Bingham	-	5- 1-70	95.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G
			6-18-70	-	102.90	725	705	0	11.5	-	-	-	-	-	-	-	36	-	8.3	0	-	-	-	-	-	-	G
			8-25-70	-	103.80	725	-	-	10.5	-	-	-	-	-	-	-	29	-	8.7	.03	-	-	-	-	-	-	G
Batise Springs- 13075010 ^c	Bannock	-	6-10-70	-	b45.9	969	7.2	14.5	42	98	34	61	12	302	0	172	60	.5	15	-	-	644	-	-	-	-	G
			10- 6-70	-	b32.3	791	7.5	14.0	45	76	27	52	10	264	0	114	50	.5	3.3	-	-	512	300	-	-	-	G
7S-14E-34baa2	Gooding	175	6- 2-70	-	114.72	426	362	-	15.0	-	-	-	-	-	-	-	12	-	2.6	0	-	-	-	-	-	-	G
			8- 4-70	-	111.43	413	-	-	15.0	-	-	-	-	-	-	-	12	-	2.7	.02	-	-	-	-	-	-	G
			8-31-70	-	-	304	7.0	-	32	34	17	19	5.0	182	0	23	11	.4	2.2	.01	.08	a235	156	.7	0	B	G
Billingsley Creek- 13134500 ^{cd}	Gooding	-	3-29-70	-	b45.4	451	-	13.5	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-	G
7S-14E-34cad1	Gooding	130	6- 1-70	-	700	363	-	16.0	-	-	-	-	-	-	-	-	14	-	3.2	.04	-	-	-	-	-	-	G
			8- 4-70	-	760	-	-	-	-	-	-	-	-	-	-	-	14	-	3.1	.04	-	-	-	-	-	-	G
			8-31-70	-	-	421	7.7	-	32	37	18	21	4.0	197	0	30	12	.4	2.6	.02	.06	a254	166	.7	0	B	G
7S-17E-4cab1	Jerome	439	6- 2-70	-	1,230	315	-	15.5	-	-	-	-	-	-	-	-	10	-	2.2	.02	-	-	-	-	-	-	G
			8- 3-70	-	1,350	-	-	15.0	-	-	-	-	-	-	-	-	-	8.7	-	1.4	.04	-	-	-	-	-	G
Seed1	Jerome	409	5-20-70	-	344.00	-	-	15.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G
			6- 2-70	-	344.55	1,920	315	-	15.5	-	-	-	-	-	-	-	11	-	2.1	.01	-	-	-	-	-	-	G
			8- 5-70	-	344.00	1,940	-	-	-	-	-	-	-	-	-	-	10	-	1.6	0	-	-	-	-	-	-	G
7S-22E-17dcd1	Lincoln	-	4-11-70	236.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			6-11-70	-	239.50	750	543	-	13.0	-	-	-	-	-	-	-	52	-	4.0	0	-	-	-	-	-	-	G
			8-13-70	-	242.30	731	-	-	12.5	-	-	-	-	-	-	-	41	-	2.4	.01	-	-	-	-	-	-	G
20edd1	Lincoln	-	4-11-70	245.93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			6-11-70	-	251.10	2,020	653	-	13.0	-	-	-	-	-	-	-	72	-	4.7	.03	-	-	-	-	-	-	G
			8-13-70	-	1,340	-	-	11.5	-	-	-	-	-	-	-	-	65	-	3.7	.10	-	-	-	-	-	-	G

Table 2. Chemical analyses of ground water from selected irrigation wells and springs, Snake Plain aquifer, southeastern Idaho--Continued.

Well or spring identification number	County	Reported well depth below land surface (feet)	Date of collection	Static water level below land surface (feet)	Pumping water level below land surface (feet)	Discharge (gpm)	Specific conductance (micromhos at 25° C)	pH	Temperature (° C)	Silica (SiO ₂)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Orthophosphate (PO ₄)	Boron (B)	Dissolved solids (calculated)	Total hardness as CaCO ₃	Sodium-adsorption- ratio (SAR)	Total coliform	Analysis by
7S-23E-21bea1	Lincoln	-	6- 8-70		267.70	2,360	616	-	13.0	-	-	-	-	-	-	-	-	64	-	4.4	0.01	-	-	-	-	-	G
			8-31-70		265.70	2,390	-	-	11.5	-	-	-	-	-	-	-	-	56	-	4.4	.02	-	-	-	-	-	G
21ddc1	Lincoln	-	4-11-70	243.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G
			6- 8-70		-	2,300	599	-	13.0	-	-	-	-	-	-	-	-	62	-	4.0	0	-	-	-	-	-	G
			8-18-70		-	2,360	-	-	11.5	-	-	-	-	-	-	-	-	57	-	4.2	.05	-	-	-	-	-	G
23daa1	Minidoka	510	4-26-70	301.23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G
			6- 9-70		-	4,110	534	-	13.0	-	-	-	-	-	-	-	-	49	-	3.1	0	-	-	-	-	-	G
			8-21-70		-	4,440	-	-	12.0	-	-	-	-	-	-	-	-	47	-	3.1	0	-	-	-	-	-	G
26cd31	Minidoka	450	6- 8-70		-	4,600	811	-	13.0	-	-	-	-	-	-	-	-	100	-	5.6	0	-	-	-	-	-	G
			8-17-70		-	4,500	-	-	12.5	-	-	-	-	-	-	-	-	74	-	4.3	.03	-	-	-	-	-	G
7S-24E- 1ddb1	Minidoka	332	4-27-70	218.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G
			6-10-70		220.55	652	340	-	13.5	-	-	-	-	-	-	-	-	16	-	1.3	0	-	-	-	-	-	G
5dda1	Minidoka	411	4-26-70	323.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G
			6-11-70		-	1,670	381	-	-	-	-	-	-	-	-	-	-	25	-	2.0	0	-	-	-	-	-	G
			8-18-70		-	1,690	-	-	-	-	-	-	-	-	-	-	-	24	-	.7	.01	-	-	-	-	-	G
13adc1	Minidoka	260	4-16-70	193.23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G
			6-11-70		197.30	3,210	423	-	13.0	-	-	-	-	-	-	-	-	34	-	2.4	0	-	-	-	-	-	G
			9-21-70		197.70	3,020	-	-	12.5	-	-	-	-	-	-	-	-	32	-	2.4	0	-	-	-	-	-	G
18dac1	Minidoka	390	4-11-70	275.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G
			6-10-70		282.85	950	441	-	13.5	-	-	-	-	-	-	-	-	36	-	2.9	0	-	-	-	-	-	G
22bea1	Minidoka	329	4-11-70	210.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G
			6-30-70		212.20	925	442	-	13.5	-	-	-	-	-	-	-	-	34	-	2.6	0	-	-	-	-	-	G
			8-18-70		214.75	920	-	-	13.5	-	-	-	-	-	-	-	-	33	-	2.6	0	-	-	-	-	-	G
22db1	Minidoka	257	8-19-70		-	-	-	-	12.5	-	-	-	-	-	-	-	-	44	-	3.8	.02	-	-	-	-	-	G
26cb1	Minidoka	290	8-19-70		-	-	-	-	12.0	-	-	-	-	-	-	-	-	92	-	5.7	.03	-	-	-	-	-	G
31ac1	Minidoka	366	8-19-70		-	-	-	-	12.0	-	-	-	-	-	-	-	-	86	-	5.4	0	-	-	-	-	-	G
7S-25E-16cda1	Minidoka	340	5- 3-70	250.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G
			6-18-70		-	1,500	333	-	13.0	-	-	-	-	-	-	-	-	14	-	1.5	0	-	-	-	-	-	G
			8-18-70		-	1,400	-	-	13.5	-	-	-	-	-	-	-	-	13	-	1.8	.01	-	-	-	-	-	G
18eda1	Minidoka	-	5-26-70	261.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G
			6-10-70		264.70	1,910	402	-	13.0	-	-	-	-	-	-	-	-	29	-	2.3	0	-	-	-	-	-	G
			8-17-70		266.20	1,840	-	-	12.5	-	-	-	-	-	-	-	-	24	-	2.8	.03	-	-	-	-	-	G
19aad1	Minidoka	350	6-10-70		-	1,420	430	-	13.5	-	-	-	-	-	-	-	-	34	-	2.9	0	-	-	-	-	-	G
			8-24-70		-	1,260	-	-	12.5	-	-	-	-	-	-	-	-	28	-	3.0	.02	-	-	-	-	-	G
21bbc1	Minidoka	357	6- 9-70		272.20	1,030	366	-	13.0	-	-	-	-	-	-	-	-	22	-	2.0	0	-	-	-	-	-	G
			8-17-70		273.05	1,240	-	-	12.5	-	-	-	-	-	-	-	-	20	-	2.6	0	-	-	-	-	-	G
26bac1	Minidoka	280	6-30-70		-	1,860	346	-	12.5	-	-	-	-	-	-	-	-	16	-	2.2	0	-	-	-	-	-	G
			9-18-70		-	1,700	-	-	12.5	-	-	-	-	-	-	-	-	16	-	2.0	.03	-	-	-	-	-	G
27dc1	Minidoka	350	8-19-70		-	-	-	-	13.5	-	-	-	-	-	-	-	-	22	-	2.5	.08	-	-	-	-	-	G

23

Table 2. Chemical analyses of ground water from selected irrigation wells and springs, Snake Plain aquifer, southeastern Idaho--Continued.

Well or spring identification number	County	Reported well depth below land surface (feet)	Date of collection	Static water level below land surface (feet)	Pumping water level below land surface (feet)	Discharge (gpm)	Specific conductance (micromhos at 25° C)	pH	Temperature (° C)	Silica (SiO ₂)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Orthophosphate (PO ₄)	Boron (B)	Dissolved solids (calculated)	Total hardness as CaCO ₃	Sodium-adsorption- ratio (SAR)	Fecal coliform	Analysis by
Box Canyon Springs- 13095500 ^c	Gooding		4-15-70			b431	405	8.0	16.0	33	35	16	22	3.7	172	0	36	18	0.6	3.3	-	-	253	-	-	-	G
			9-17-70			b416	408	8.1	14.0	23	36	17	22	4.0	187	0	32	18	.6	3.7	-	-	248	-	-	-	G
Box Canyon Springs- 13095600 ^c	Gooding		3-25-70			-	399	-	13.5	-	-	-	-	-	-	-	-	18	-	-	-	-	-	-	-	-	G
Blind Canyon Spring- 13095400 ^c	Gooding		3-24-70			b11.7	410	-	13.5	-	-	-	-	-	-	-	-	18	-	1.9	-	-	-	-	-	-	G
Unnamed Spring- 1309535 ^c	Gooding		3-24-70			b4.2	412	-	13.5	-	-	-	-	-	-	-	-	19	-	2.6	-	-	-	-	-	-	G
Banbury Spring- 13095300 ^c	Gooding		3-24-70			b120	412	-	13.0	-	-	-	-	-	-	-	-	19	-	2.5	-	-	-	-	-	-	G
8S-18E-35aac1	Jerome	325	5-20-70		229.39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			6- 4-70		228.90	1,110	567	-	-	-	-	-	-	-	-	-	-	46	-	3.9	0	-	-	-	-	-	G
			8- 5-70		224.25	1,160	-	-	-	-	-	-	-	-	-	-	-	46	-	3.5	.01	-	-	-	-	-	G
			9- 1-70		-	-	602	7.9	-	32	57	21	30	5.0	204	0	62	43	.5	3.1	.01	0.05	a354	226	0.9	0	B
8S-21E-36dad1	Jerome	389	4-10-70	296.41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			6- 9-70		304.70	2,700	981	-	14.0	-	-	-	-	-	-	-	-	116	-	12	0	-	-	-	-	-	G
			8-25-70		309.70	2,860	-	-	13.5	-	-	-	-	-	-	-	-	112	-	13	.06	-	-	-	-	-	G
8S-22E- 1cbb1	Minidoka	375	6- 8-70		-	1,900	918	-	13.5	-	-	-	-	-	-	-	-	118	-	6.8	0	-	-	-	-	-	G
			8-19-70		-	1,850	-	-	13.0	-	-	-	-	-	-	-	-	113	-	7.0	.09	-	-	-	-	-	G
13dbc1	Minidoka	402	4-16-70	292.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			6-19-70		-	2,980	984	-	14.0	-	-	-	-	-	-	-	-	114	-	11	0	-	-	-	-	-	G
			8-31-70		-	2,950	-	-	14.0	-	-	-	-	-	-	-	-	118	-	13	.02	-	-	-	-	-	G
14dbd1	Minidoka	490	4-10-70	354.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			7- 6-70		358.23	1,760	923	-	-	-	-	-	-	-	-	-	-	104	-	10	0	-	-	-	-	-	G
			9-21-70		360.73	1,830	-	-	13.0	-	-	-	-	-	-	-	-	100	-	9.6	0	-	-	-	-	-	G
-30cb1	Minidoka	516	8-19-70		-	-	-	-	13.0	-	-	-	-	-	-	-	-	107	-	8.5	.01	-	-	-	-	-	G
36baa1	Minidoka	278	6- 5-70		142.72	2,560	1,040	-	14.5	-	-	-	-	-	-	-	-	126	-	18	0	-	-	-	-	-	G
			8- 7-70		138.79	2,490	-	-	14.0	-	-	-	-	-	-	-	-	126	-	17	.01	-	-	-	-	-	G
8S-23E-17ba1	Minidoka	302	8-19-70		-	-	-	-	13.0	-	-	-	-	-	-	-	-	134	-	9.8	.01	-	-	-	-	-	G
17ccc1	Minidoka	289	6-18-70		-	1,030	1,110	-	14.0	-	-	-	-	-	-	-	-	140	-	11	.01	-	-	-	-	-	G
			9-21-70		-	1,060	-	-	13.5	-	-	-	-	-	-	-	-	134	-	14	.04	-	-	-	-	-	G
18dcbl	Minidoka	330	5-25-70	268.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			6- 5-70		-	1,830	1,030	-	14.5	-	-	-	-	-	-	-	-	128	-	12	.01	-	-	-	-	-	G
			8-19-70		261.75	2,020	-	-	13.5	-	-	-	-	-	-	-	-	126	-	14	.10	-	-	-	-	-	G

8S-23E-27cd1	Minidoka	229	8-19-70	-	-	-	-	14.0	-	-	-	-	-	-	-	75	-	18	0.10	-	-	-	-	-	G
35cc1	Minidoka	298	8-19-70	-	-	-	-	14.0	-	-	-	-	-	-	-	35	-	14	.04	-	-	-	-	-	G
8S-24E-30bd1	Minidoka	207	8-19-70	-	-	-	-	14.5	-	-	-	-	-	-	-	39	-	12	.04	-	-	-	-	-	G
8S-25E- 3abb1	Minidoka	290	4-27-70	217.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G
			6-10-70		220.30	580	680	-	12.5	-	-	-	-	-	-	88	-	4.2	0	-	-	-	-	-	G
			8-17-70		221.00	580	-	-	12.0	-	-	-	-	-	-	80	-	4.5	.05	-	-	-	-	-	G
3dal	Minidoka	304	8-19-70	-	-	-	-	12.0	-	-	-	-	-	-	-	22	-	2.1	.03	-	-	-	-	-	G
14cal	Minidoka	258	8-19-70	-	-	-	-	13.5	-	-	-	-	-	-	-	43	-	1.2	.02	-	-	-	-	-	G
8S-26E-12bcb1	Blaine	497	10-11-54	221.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G
			6-11-70	-	-	1,960	1,020	-	12.0	-	-	-	-	-	-	162	-	9.0	0	-	-	-	-	-	G
			8-18-70	-	-	1,970	863	-	11.5	-	-	-	-	-	-	129	-	6.4	0	-	-	-	-	-	G
Clear Lakes Spring- 13094480 ^c	Gooding		3-13-70	-	-	540	-	13.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G
Clear Lakes Spring- 13094300 ^c	Gooding		3-26-70	-	-	424	-	13.5	-	-	-	-	-	-	-	21	-	2.8	-	-	-	-	-	-	G
Briggs Springs- 13095175 ^c	Gooding		3-26-70	-	b108	429	7.8	14.0	34	38	18	22	3.9	182	0	39	20	0.5	3.4	-	-	269	-	-	G
			9-21-70	-	b138	473	8.0	14.0	26	44	20	24	4.3	216	0	37	21	.7	4.3	-	-	287	-	-	G
Niagara Springs- 13093689 ^c	Gooding		3-13-70	-	-	526	-	13.5	-	-	-	-	-	-	-	-	35	-	-	-	-	-	-	-	G
Crystal Springs- 13093398 ^c	Gooding		3-27-70	-	b17.3	594	8.2	14.5	36	21	24	34	4.8	236	0	55	37	.5	6.7	-	-	365	-	-	G
			9-21-70	-	b25.4	609	8.1	13.5	26	55	25	34	5.2	253	0	47	39	.6	7.0	-	-	363	-	-	G
Crystal Springs- 13093396 ^c	Gooding		3-13-70	-	-	630	-	13.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G	
Crystal Springs- 13093391 ^c	Gooding		3-13-70	-	-	705	-	14.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G	
9S-16E- 9ccal	Jerome	300	8- 4-70	-	-	900	-	15.0	-	-	-	-	-	-	-	-	38	-	7.3	.02	-	-	-	-	G
Ellisons Springs- 13093300 ^c	Jerome		3-28-70	-	b2.1	656	-	13.5	-	-	-	-	-	-	-	-	38	-	8.4	-	-	-	-	-	G
Blue Lakes Spring- 13091000 ^c	Jerome		5- 6-70	-	b204	612	8.0	15.5	38	56	20	38	6.3	234	0	56	42	.4	7.5	-	-	379	-	-	G
			9-16-70	-	b217	604	7.9	14.5	27	57	21	36	7.0	238	0	53	44	.4	7.7	-	-	370	-	-	G
Warm Creek- 13091700 ^{cd}	Jerome		3-28-70	-	b16.7	594	-	14.5	-	-	-	-	-	-	-	-	44	-	4.7	-	-	-	-	-	G
Unnamed Spring No. 2- 13090350 ^c	Jerome		3-23-70	-	b4.3	612	-	17.0	-	-	-	-	-	-	-	-	43	-	6.6	-	-	-	-	-	G

Table 2. Chemical analyses of ground water from selected irrigation wells and springs, Snake Plain aquifer, southeastern Idaho--Continued.

Well or spring identification number	County	Reported well depth below land surface (feet)	Date of collection	Static water level below land surface (feet)	Pumping water level below land surface (feet)	Discharge (gpm)	Specific conductance (micromhos at 25° C)	pH	Temperature (° C)	Silica (SiO ₂)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Orthophosphate (PO ₄)	Boron (B)	Dissolved solids (calculated)	Total hardness as CaCO ₃	Sodium-adsorption- ratio (SAR)	Fecal coliform	Analysis by
Unnamed Spring No. 1- 13090300 ^c	Jerome		3-23-70			b1.8	608	-	15.5	-	-	-	-	-	-	-	-	41	-	6.3	-	-	-	-	-	-	G
Devils Corral Springs- 13090099 ^c	Jerome		3-23-70			b7.4	613	-	14.5	-	-	-	-	-	-	-	-	42	-	7.7	-	-	-	-	-	-	G
Devils Corral Springs- 13090098 ^c	Jerome		3-23-70			b44.3	647	-	15.5	-	-	-	-	-	-	-	-	42	-	7.5	-	-	-	-	-	-	G
9S-21E-18dab1	Jerome	340	5-18-70	302.44																							
			6- 4-70		305.25	1,390	878	-	14.5	-	-	-	-	-	-	-	-	96	-	18	0.02	-	-	-	-	-	G
			8- 6-70		301.86	1,380	-	-	13.5	-	-	-	-	-	-	-	-	91	-	14	.03	-	-	-	-	-	G
9S-22E- 4ccal	Minidoka	330	4-16-70	252.51																							
			6- 9-70		255.10	623	842	-	14.0	-	-	-	-	-	-	-	-	62	-	18	0	-	-	-	-	-	G
			8-24-70		258.10	670	-	-	13.5	-	-	-	-	-	-	-	-	55	-	18	.04	-	-	-	-	-	G
6add1	Minidoka	400	6- 5-70		307.20	2,330	843	-	14.5	-	-	-	-	-	-	-	-	75	-	17	0	-	-	-	-	-	G
			8- 7-70		313.45	2,140	-	-	-	-	-	-	-	-	-	-	-	86	-	15	.04	-	-	-	-	-	G
Devils Washbowl Spring- 13089500 ^c	Jerome		3-28-70			b15.7	682	8.1	14.0	43	56	24	48	7.3	262	0	69	44	0.3	9.1	-	-	430	-	-	-	G
			9-22-70			b17.5	678	8.2	14.0	26	58	24	50	7.5	282	0	63	42	.4	12	-	-	422	-	-	-	G
10S-20E- 9dab1	Jerome	-	6- 3-70		-	1,300	652	-	16.0	-	-	-	-	-	-	-	-	42	-	7.9	.01	-	-	-	-	-	G
			9- 1-70		-	-	639	7.7	-	42	48	24	51	8.0	246	0	66	36	.4	6.2	.01	0.14	a396	218	1.5	0	B
10adcl	Jerome	427	5-18-70	368.08																							
			6- 3-70		-	1,390	630	-	16.0	-	-	-	-	-	-	-	-	38	-	7.4	.01	-	-	-	-	-	G
			8- 6-70		-	1,580	-	-	-	-	-	-	-	-	-	-	-	38	-	6.2	.05	-	-	-	-	-	G
			9- 1-70		-	-	646	7.9	-	42	49	23	51	7.0	248	0	63	36	.4	6.6	.02	.11	a400	217	1.5	-	B
13bcc2	Jerome	390	5-20-70	353.52																							
			6- 3-70		355.50	876	519	-	16.5	-	-	-	-	-	-	-	-	31	-	2.2	0	-	-	-	-	-	G
			8- 6-70		351.17	893	-	-	15.5	-	-	-	-	-	-	-	-	27	-	1.0	.03	-	-	-	-	-	G
			9- 1-70		-	-	505	7.7	-	38	40	21	31	6.0	206	0	49	25	.6	1.8	.01	.07	a313	188	1.0	0	B
14bdd1	Jerome	420	10- 6-53	371.03																							
			6-19-70		-	520	578	-	15.5	-	-	-	-	-	-	-	-	40	-	3.0	0	-	-	-	-	-	G
			8- 5-70		-	540	-	-	-	-	-	-	-	-	-	-	-	33	-	2.4	.04	-	-	-	-	-	G
			9- 1-70		-	-	548	7.8	-	38	41	22	35	7.0	212	0	56	30	.6	2.9	.01	.08	a337	196	1.1	-	B
17cdd1	Jerome	535	5-20-70	377.27																							
			6- 3-70		-	1,240	656	-	17.0	-	-	-	-	-	-	-	-	51	-	7.4	.01	-	-	-	-	-	G
			8- 6-70		-	1,230	-	-	16.0	-	-	-	-	-	-	-	-	46	-	5.7	.03	-	-	-	-	-	G
			9- 1-70		-	-	631	7.7	-	41	55	21	45	8.0	226	0	72	44	.3	6.2	.03	.10	a403	224	1.3	-	B

a Dissolved solids calculated by U.S. Geological Survey using U.S. Bureau of Reclamation chemical data.
b Discharge reported in cubic feet per second.
c Station number; see table 3 for location.
d Although this spring is called a "Creek", the water sampled issues from the Snake Plain aquifer.

Table 3. Locations of sampled springs, Snake River Plain, southeastern Idaho.

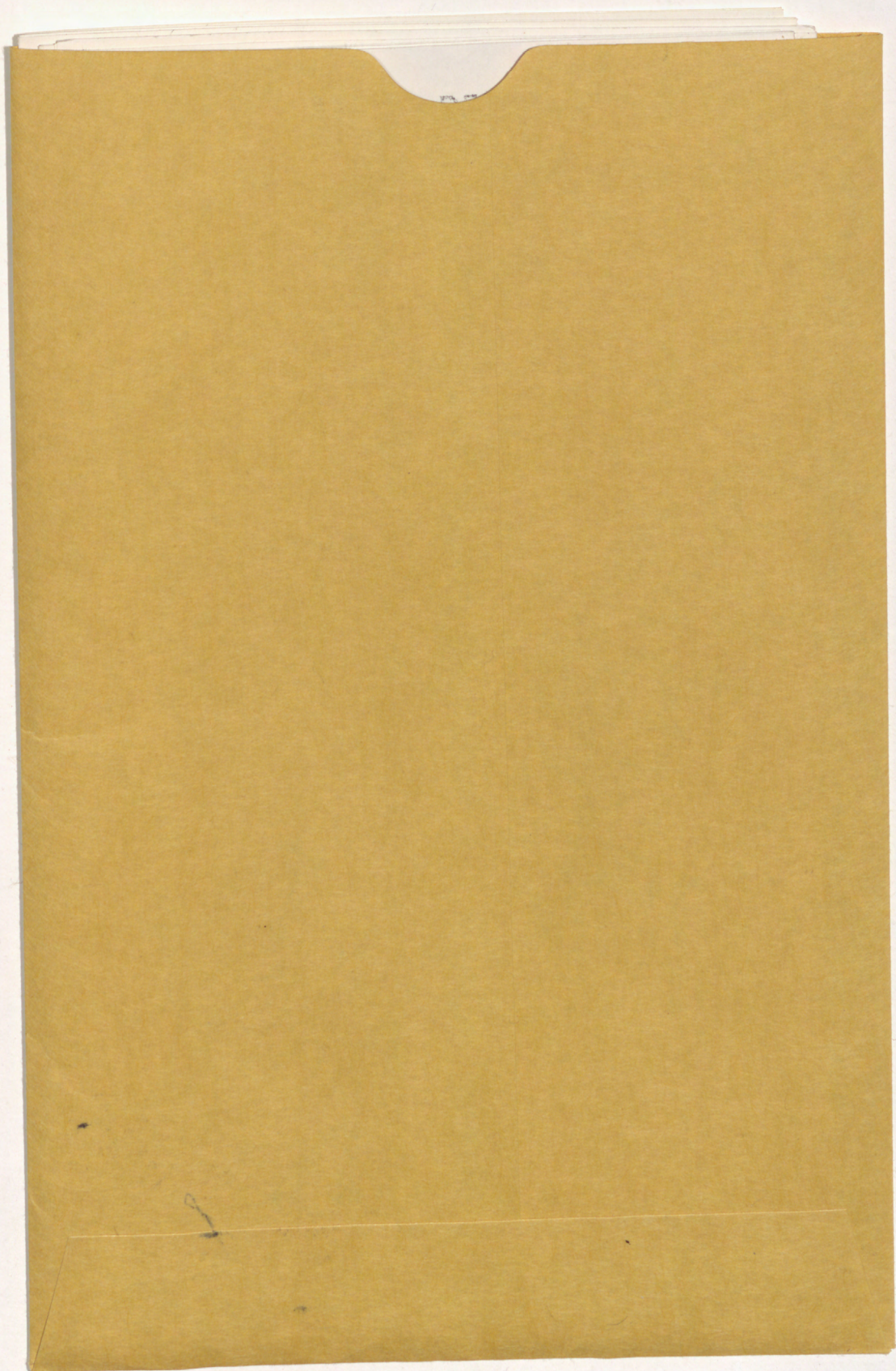
Station number	Station name	Location
13069540	Danielson Creek near Springfield ^a	Lat 43°03'32", long 112°41'23", NW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.23, T.4 S., R.32 E.
13075810	Batise Springs near Pocatello	Lat 42°54'55", long 112°31'18", SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.7, T.6 S., R.34 E.
13075920	Wide Creek near Pocatello ^a	Lat 42°57'28", long 112°34'11", SE $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.26, T.5 S., R.33 E.
13075970	Kinney Creek near Fort Hall ^a	Lat 43°00'16", long 112°34'50", SE $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.10, T.5 S., R.33 E.
13075980	Spring Creek near Blackfoot ^a	Lat 43°05'45", long 112°30'15", NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.8, T.4 S., R.34 E.
13076600	Reugar Springs near American Falls	Lat 42°46'05", long 112°52'54", NW $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.31, T.7 S., R.31 E.
13089500	Devils Washbowl Spring near Kimberly	Lat 42°35'22", long 114°20'46", NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.4, T.10 S., R.18 E.
13090098	Devils Corral Springs (upper outlet) near Kimberly	Lat 42°35'38", long 114°21'55", SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.32, T.9 S., R.18 E.
13090099	Devils Corral Springs (lower outlet) near Kimberly	Lat 42°36'01", long 114°22'30", SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.32, T.9 S., R.18 E.
13090300	Unnamed Spring No. 1 above Shoshone powerplant	Lat 42°36'03", long 114°23'36", SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.31, T.9 S., R.18 E.
13090350	Unnamed Spring No. 2 above Shoshone powerplant	Lat 42°35'52", long 114°23'55", NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.31, T.9 S., R.18 E.
13091000	Blue Lakes Springs near Twin Falls	Lat 42°36'30", long 114°28'34", NE $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.28, T.9 S., R.17 E.
13091700	Warm Creek near Twin Falls ^a	Lat 42°37'15", long 114°29'55", NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.29, T.9 S., R.17 E.
13093300	Ellisons Springs (upper outlet) near Jerome	Lat 42°38'13", long 114°33'40", NE $\frac{1}{4}$ sec.22, T.9 S., R.16 E.
13093391	Crystal Springs tributary No. 3 near Filer	Lat 42°39'31", long 114°38'19", NW $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.12, T.9 S., R.15 E.
13093396	Crystal Springs main lake outlet near Filer	Lat 42°39'39", long 114°38'50", SW $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.12, T.9 S., R.15 E.
13093398	Crystal Springs tributary No. 8 near Buhl	Lat 42°39'36", long 114°38'32", NE $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.12, T.9 S., R.15 E.

Table 3. Locations of sampled springs, Snake River Plain, southeastern Idaho--Continued.

Station number	Station name	Location
13093689	Niagara Springs at diversion No. 3 near Buhl	Lat 42°39'53", long 114°40'26", NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.10, T.9 S., R.15 E.
13094300	Clear Lakes Springs east group at head, near Buhl	Lat 42°40'29", long 114°46'17", SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.1, T.9 S., R.14 E.
13094480	Clear Lakes Springs west outlet at head, near Buhl	Lat 42°40'28", long 114°46'48", SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.2, T.9 S., R.14 E.
13095175	Briggs Springs at head, near Buhl	Lat 42°40'20", long 114°49'00", NW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.3, T.9 S., R.14 E.
13095300	Banbury Springs near Buhl	Lat 42°41'31", long 114°49'21", SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.33, T.8 S., R.14 E.
13095350	Unnamed spring between Banbury Spring and Blind Canyon Spring near Buhl	Lat 42°41'51", long 114°49'21", SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.28, T.8 S., R.14 E.
13095400	Blind Canyon Spring near Buhl	Lat 42°42'12", long 114°49'20", SE $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.28, T.8 S., R.14 E.
13095500	Box Canyon Springs near Wendell	Lat 42°42'30", long 114°48'40", SE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.28, T.8 S., R.14 E.
13095600	Box Canyon Springs at mouth, near Wendell	Lat 42°42'25", long 114°49'22", NW $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.28, T.8 S., R.14 E.
13132600	Sand Springs Creek above ponds, near Hagerman ^a	Lat 42°43'36", long 114°50'00", SW $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.17, T.8 S., R.14 E.
13132790	Pickle Springs near Hagerman	Lat 42°45'29", long 114°51'19", SE $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.6, T.8 S., R.14 E.
13132800	Thousand Springs at mouth, near Hagerman	Lat 42°44'23", long 114°50'27", NE $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.8, T.8 S., R.14 E.
13134300	Riley Creek at mouth, near Hagerman ^a	Lat 42°45'46", long 114°51'31", SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.6, T.8 S., R.14 E.
13134600	Billingsley Creek near Hagerman ^a	Lat 42°46'35", long 114°50'55", SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.32, T.7 S., R.14 E.
13135100	Birch Creek near Hagerman ^a	Lat 42°51'10", long 114°53'30", SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.34, T.6 S., R.13 E.
13152900	Cove Creek near Hagerman ^a	Lat 42°52'01", long 114°52'06", SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.25, T.6 S., R.13 E.
13153713	Short Creek near Bliss ^a	Lat 42°52'46", long 114°54'26", NW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.27, T.6 S., R.13 E.

^a Although this spring is called a "Creek", the water sampled issues from the Snake Plain aquifer.

POCKET 3 CONTAINS
ITEMS



Bno-Dart

NEWARK, N.J. • WILLIAMSPORT, PA.
LOS ANGELES, CALIF.
BRANTFORD, ONT.
MADE IN U.S.A.

USGS LIBRARY - RESTON



3 1818 00331982 7