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## Selected Hydrologic Data for Cache Valley, Utah and Idaho, 1969-91

D. Michael Roark

Karen M. Hanson

U.S. Geological Survey

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# **SELECTED HYDROLOGIC DATA FOR CACHE VALLEY, UTAH AND IDAHO, 1969-91**

**By D. Michael Roark and Karen M. Hanson**

UTAH HYDROLOGIC-DATA REPORT NO. 43

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U.S. GEOLOGICAL SURVEY

Open-File Report 92-173

Prepared in cooperation with the  
UTAH DEPARTMENT OF NATURAL RESOURCES,  
DIVISION OF WATER RESOURCES  
DIVISION OF WATER RIGHTS



Salt Lake City, Utah

1992

**U.S. DEPARTMENT OF THE INTERIOR**

**MANUEL LUJAN, JR., Secretary**

U.S. GEOLOGICAL SURVEY

Dallas L. Peck, Director

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## CONVERSION FACTORS, VERTICAL DATUM, AND ABBREVIATED WATER-QUALITY UNITS

	Multiply	By	To obtain
acre		0.4047	hectare
		4,047	square meter
foot		0.3048	meter
cubic foot per second		0.02832	cubic meter per second
gallon per minute		0.06308	liter per second
inch		25.4	millimeter
		0.0254	meter
mile		1.609	kilometer
square mile		2.59	square kilometer

Water temperature is given in degrees Celsius ( $^{\circ}\text{C}$ ), which can be converted to degrees Fahrenheit ( $^{\circ}\text{F}$ ) by the following equation:

$$^{\circ}\text{F} = 1.8 (^{\circ}\text{C}) + 32.$$

Sea level: In this report, "sea level" refers to the National Geodetic Vertical Datum of 1929—a geodetic datum derived from a general adjustment of the first-order level nets of the United States and Canada, formerly called Sea Level Datum of 1929.

Specific conductance and water temperature are given only in metric units. Specific conductance is given in microsiemens per centimeter ( $\mu\text{S}/\text{cm}$ ) at 25 degrees Celsius.

# SELECTED HYDROLOGIC DATA FOR CACHE VALLEY, UTAH AND IDAHO, 1969-91

By D. Michael Roark and Karen M. Hanson

## INTRODUCTION

This report contains hydrologic data collected in Cache Valley from 1969 to 1991. The report area is in north-central Utah and southeast Idaho, within the Basin and Range physiographic province described by Fenneman (1931), and includes about 660 square miles.

Most of the data in this report were collected by the U.S. Geological Survey in cooperation with the Utah Department of Natural Resources, Divisions of Water Resources and Water Rights. Some of the data collected before 1969 were previously published by McGreevy and Bjorklund (1970).

The purpose of this report is to provide hydrologic data for use by the general public and by officials managing the area's water resources, and to supplement interpretive reports for the area. Tables 1 to 7 contain selected well, spring, and surface-water data. The numbering systems used in this report for hydrologic-data sites are illustrated in figure 1. Hydrologic-data sites are shown on plate 1.

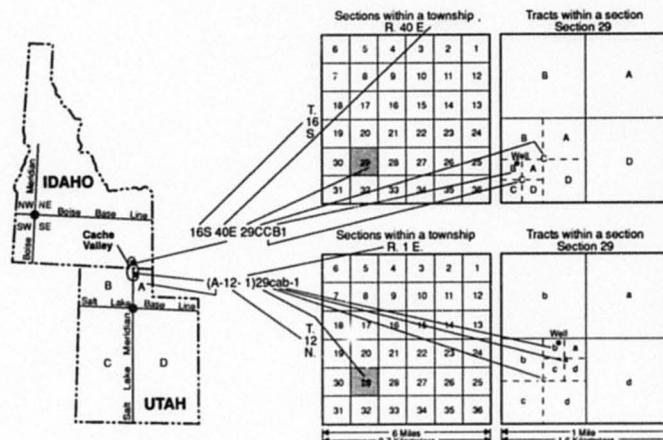
These data could not have been collected without the cooperation of local residents and officials of irrigation companies and municipalities, that permitted access to their wells, springs, and canals to measure water levels in wells and flow in springs and canals. The Idaho Department of Water Resources also provided valuable assistance and data.

## REFERENCES CITED

- Fenneman, N.M., 1931, Physiography of the western United States: McGraw-Hill, New York, 534 p.  
McGreevy, L.J., and Bjorklund, L.J., 1970, Selected hydrologic data, Cache Valley, Utah and Idaho: Utah Basic Data Release 21, 51 p.

The system of numbering wells and springs in Utah is based on the cadastral land-survey system of the U.S. Government. The number, in addition to designating the well or spring, describes its position in the land net. The land-survey system divides the State into four quadrants separated by the Salt Lake Base Line and Meridian. These quadrants are designated by the uppercase letters A, B, C, and D, indicating the northeast, northwest, southwest, and southeast quadrants, respectively. Numbers designating the township and range, in that order, follow the quadrant letter, and all three are enclosed in parentheses. The number after the parentheses indicates the section and is followed by three letters indicating the quarter section, the quarter-quarter section, and the quarter-quarter-quarter section, generally 10 acres<sup>1</sup> for regular sections. The lower case letters a, b, c, and d indicate, respectively, the northeast, northwest, southwest, and southeast quarters of each subdivision. The number after the letters is the serial number of the well or spring within the 10-acre tract. The letter S preceding the serial number designates a spring. The letter W following the serial number denotes a stream, and the letter B denotes a canal or ditch. Thus, (A-12-1)29cab-1 designates the first well constructed or visited in the NW<sup>1/4</sup> NE<sup>1/4</sup> SW<sup>1/4</sup>, section 29, T. 12 N., R. 1 E.

In Idaho, the well- and spring-numbering system is based on the cadastral land survey with reference to the Boise Base Line and Meridian. It is similar to the Utah system except that springs are not designated by the letter S and the quadrant letter is omitted; the townships are labeled N or S to designate north or south and the ranges are labeled E or W to designate east or west. The letter W following the serial number denotes a stream, and the letter B denotes a canal or ditch. Thus, 16S 40E 29CCB1 is the first well visited in the NW<sup>1/4</sup> SW<sup>1/4</sup>, section 29, T. 16 S., R. 40 E.



<sup>1</sup> Although the basic land unit, the section, is theoretically 1 square mile, many sections are irregular. Such sections are subdivided into 10-acre tracts, generally beginning at the southeast corner, and the surplus or shortage is taken up in the tracts along the north and west sides of the section.

Figure 1. Numbering systems used in this report for hydrologic-data sites in Utah and Idaho.

**Table 1.—Records of**  
[— indicates no

Location: See page 2 for an explanation of the numbering systems for hydrologic-data sites.

Owner or user: Refers to last known owner or user.

Use of water: H, domestic or household; P, public supply; U, unused; I, irrigation; S, stock; Q, aquaculture; T,

Depth of well: Greatest depth drilled or greatest depth sounded.

Casing: Diameter: reported from driller's log or measured in the field. Finish: O, open ended; P, perforated; S, feet below the landsurface, if known, and questioned (?) if extent of perforated or screened interval is

Altitude of land surface is given in feet above sea level.

Water level is given in feet and decimal fractions. Measured except where noted R, reported.

Yield: Rate: gal/min, gallons per minute; F, natural flow; P, pumped.

Water-quality parameters: °C, degrees Celsius;  $\mu\text{S}/\text{cm}$ , microsiemens per centimeter at 25 degrees Celsius.

Other data available: L, driller's log (table 2); W, water-level measurements (table 3); C, temperature and

Location	Owner or user	Year drilled	Use of water	Depth of well (feet)	Casing		
					Diameter (inches)	Depth (feet)	Finish (feet)
(A-9-1)3bca-1	Olsen, Marion	1950	H	180	4	99	O
(A-9-1)10dad-1	Maughan, Game	—	H	—	—	—	—
(A-10-1)3cco-1	Hyrum city	1975	P	630	20,16,12	628	P 310-332 420-450 457-461
(A-10-1)4abd-1	Anderson, O.H.	—	U	240	12	—	P 10-240
(A-10-1)4daa-1	Hyrum city	1963	P	472	16	472	P 378-418 435-470
(A-10-1)6ccc-2	Bassett, Stanley	1985	H	105	6.5	105	P 97-105
(A-10-1)16daa-1	Nielsen, E.J.	1964	I	12	36	—	P 6-12
(A-10-1)6dad-1	Richman, D.	1967	U	16	30	16	P 7-9
(A-10-1)21aab-1	Summers, Sharell	1963	H	103	4	103	O
(A-10-1)21dbb-1	Tams, Neil	1990	H	22	48	—	—
(A-10-1)28bba-1	Paradise town	1961	P	140	12	—	P 60-100 125-130
(A-10-1)33aab-1	Paradise town	—	P	250	12	—	—
(A-10-1)34bac-1	Paradise town	1963	P	402	12	402	P 140-155 198-222 234-245 295-350
(A-10-1)34abb-1	Mair, W.H.	1959	H	190	6	66.2	P 38-(?)
(A-11-1)3aca-1	Riverheights city	1934	P	192	10	192	P 162-192
(A-11-1)3acd-1	Riverheights city	1960	P	335	20,16	335	P 100-122 140-178 261-273 305-323
(A-11-1)3bda-1	Riverheights city	1934	P	140	12	140	P 96-140
(A-11-1)4bbc-1	Hall, W.L.	1949	S	173	2	173	P 163-173
(A-11-1)4cbd-2	Logan city	1979	P	970	24,20,16	958	P 360-368 440-620 680-957

**selected wells**  
data available]

institutional; N, industrial; C, emergency supply; D, dewater.

screened; W, walled; H, horizontal gallery; T, sand point. Upper and lower limits of perforations or screen given in unknown.

specific conductance of water (table 5); D, well-discharge measurements (table 4).

Altitude of land surface (feet)	Water level		Yield Rate (gal/min)	Date	Water-quality parameters		Other data available
	Above (-) or below land surface (feet)	Date			Temperature (°C)	Specific conductance ( $\mu\text{S}/\text{cm}$ )	
4,905	35.63	03-21-91	—	—	—	—	—
5,000	49.45	03-06-91	—	—	—	—	—
4,800	—	—	—	—	—	—	L
4,705	10.26	03-20-91	—	—	—	—	—
4,790	—	—	—	—	—	—	—
4,640	4.64	03-12-91	—	—	—	—	—
4,800	50.04	03-06-91	—	—	—	—	—
4,820	10.21	03-08-91	—	—	—	—	—
4,820	13.26	03-06-91	—	—	—	—	W
4,830	18.23	03-21-91	—	—	—	—	—
4,870	—	—	—	—	—	—	—
4,920	—	—	—	—	—	—	—
4,990	—	—	—	—	—	—	—
5,035	37.47	03-21-91	—	—	—	—	—
4,600	172.00	04-03-91	—	—	—	—	—
4,580	113.00	04-03-91	1,040 P	08-21-80	—	—	—
4,540	52.00	04-03-91	—	—	—	—	—
4,480	4.80	03-20-91	—	—	—	—	—
4,485	-4.9	03-21-91	—	—	—	—	L

Table 1.—Records of

Location	Owner or user	Year drilled	Use of water	Depth of well (feet)	Casing		
					Diameter (inches)	Depth (feet)	Finish (feet)
(A-11-1)4daa-2	Johnson, Legrand	1962	U	310	12	310	P 200-300
(A-11-1)4dad-3	Mortensen, Dean	1965	H	100	4	100	O
(A-11-1)6ccb-1	Hill, P.A.	1925	S	155	2	—	—
(A-11-1)7cccd-2	Speth, Bart	1964	H	103	6	103	O
(A-11-1)8ddc-2	Hydron Laboratory	1968	I	207	12.8	207	P 55-60 65-70 75-80 85-90 177-207
(A-11-1)10cda-1	Providence city	—	P	—	—	—	—
(A-11-1)10dad-1	Providence city	1965	P	366	16	366	P 240-262 264-267 324-328 336-366
(A-11-1)15bcb-1	Utah State University	1974	H	230	8	230	P 174-194 194-209 209-230
(A-11-1)15ddb-1	Millville city	1973	P	385	16,12	385	P 269-369
(A-11-1)16daa-1	Zollinger Commercial Warehouse	1968	O	288	16,10	288	P 158-263
(A-11-1)17daa-1	Smith, Claine	1973	H	139	2	136	O
(A-11-1)18baa-1	Jones, Norman	1979	H	115	10,6	115	P 100-112
(A-11-1)18bas-2	U.S. Geological Survey	1990	U	14.5	2	14.5	S 11-14
(A-11-1)18ddd-1	Olsen, Lovenus	1906	H	145	2	—	—
(A-11-1)19acb-1	Anderson, E.H.	1936	H	122	2	122	O
(A-11-1)20ecc-1	College Ward Irrigation Co.	1934	I	142	12	142	P 92-142
(A-11-1)20ada-1	College Ward Irrigation Co.	1963	I	378	16	—	P 90-(7)
(A-11-1)21ddb-1	Nielsen, Carl & Joan	—	I	7.65	36	7.65	W
(A-11-1)22bas-1	Palmer, Dewitt	1929	U	84	3	—	—
(A-11-1)23cbd-1	Millville city	1978	P	398	16,12	398	P 264-295 308-322 331-360 364-398
(A-11-1)23ccb-1	Humphreys, R.G.	1973	H	198	6	191	O
(A-11-1)27cccd-1	Nibley Irrigation Co.	1966	I	596	20	596	P 308-340 375-466 480-590
(A-11-1)28bdb-1	Johnson, D.A.	1962	H	168	4	168	P 163-168
(A-11-1)28dad-1	Nibley city	1976	P	441	16,12	441	P 319-337 390-439
(A-11-1)30bbc-1	Utah State University	1966	S	200	6	—	—
(A-12-1)2bdds-1	Corbridge, Don	1988	H	104	6	104	P 42-45 96-98
(A-12-1)3aca-1	Reed, Rick	1987	H	125	6	125	P 117-122
(A-12-1)3bbb-1	Smithfield Irrigation Co.	1934	I	166	12	166	—
(A-12-1)3cbd-1	Lamb, D.D.	1961	S	125	2	125	P 115-125

## selected wells—Continued

Altitude of land surface (feet)	Above (-) or below land surface (feet)	Date	Water level		Water-quality parameters			Other data available	
			Yield (gal/min)	Date	Specific conductance (µS/cm)				
					Temperature (°C)	Date			
4,500	24.75	03-08-91	—	—	—	—	—	W	
4,505	16.91	03-08-91	—	—	—	—	—	—	
4,435	-23.7	03-19-91	4.3 F	03-19-91	11.0	450	03-19-91	—	
4,435	-27.2	03-19-91	50 F	08-14-84	10.5	445	03-19-91	—	
4,435	18.8 F	03-19-91	—	—	—	—	—	—	
4,480	6.9 R	03-04-91	—	—	—	—	—	—	
4,235	43.78	03-08-91	—	—	—	—	—	—	
4,540	145.37	03-08-91	—	—	—	—	—	—	
4,500	25.25	03-07-91	—	—	—	—	—	—	
4,680	—	—	440 P	09-06-73	—	—	—	—	
4,485	—	—	300 F	03-04-91	—	—	—	—	
4,500	.02	03-07-91	20 P	04-16-73	—	—	—	—	
4,440	-30.2	03-08-91	30 F	03-08-91	11.5	465	03-08-91	W,C,D	
4,440	—	—	—	—	—	—	—	—	
4,480	-4.8	03-05-87	—	—	—	—	—	W	
4,480	2.66	03-11-91	—	—	—	—	—	—	
4,510	22.82	03-06-91	—	—	—	—	—	—	
4,520	33.79	03-07-91	2,754 P	08-20-90	—	—	—	—	
4,550	5.25	03-08-91	—	—	—	—	—	W	
4,580	—	—	—	—	—	—	—	—	
4,680	—	—	1,400 P	02-10-78	—	—	—	—	
4,750	38.26	03-07-91	—	—	—	—	—	—	
4,600	126.78	03-08-91	1,690 P	07-28-77	—	—	—	W	
4,570	79.90	03-06-91	—	—	—	—	—	—	
4,610	—	—	—	—	—	—	—	—	
4,490	13.44	03-11-91	—	—	—	—	—	—	
4,740	37.82	04-03-91	—	—	—	—	—	—	
4,540	59.11	04-03-91	—	—	—	—	—	—	
4,510	25.37	03-08-91	—	—	—	—	—	W	
4,480	-3.6	03-14-91	.49 F	03-14-91	10.5	660	03-14-91	—	

Table 1.—Records of

Location	Owner or user	Year drilled	Use of water	Depth of well (feet)	Casing		
					Diameter (inches)	Depth (feet)	Finish (feet)
(A-12-1)3dbd-1	Hyde Park town	1970	P	245	12	275	P 95-250
(A-12-1)4abb-1	Hinds, James	1939	S	182	3	152	O
(A-12-1)5dbb-1	Chambers, George	1929	S	208	2	—	
(A-12-1)6bcc-1	Reese, C.L.	1959	S	585	2	—	S 504-574 574-585
(A-12-1)7add-1	Seamons, C.	1961	S	182	2	182	P 172-182
(A-12-1)7bbc-1	Cowley, George	1918	—	441	2	—	—
(A-12-1)7bcb-1	Mughan, J.C.	1954	H	470	2	470	P 459-470
(A-12-1)8acb-1	Lee, R.E.	1895	S	60	2	—	—
(A-12-1)9bdd-2	Jensen Brothers	1971	I	280	4	220	O
(A-12-1)10cbb-1	Hancey, H.E.	1915	S	105	2	—	—
(A-12-1)11bas-1	Hyde Park town	1968	P	622	16	—	P —
(A-12-1)12cbc-1	Nelson, Lyle	1986	H	480	4	474	P 414-474
(A-12-1)16cac-1	Benson Irrigation Co.	1929	I	44	4	—	O
(A-12-1)17daa-1	Benson Irrigation Co.	1942	I	144	4	—	P 118-(?)
(A-12-1)17daa-2	U.S. Geological Survey	1990	U	19.6	2	19.6	S 17-19
(A-12-1)18bdd-1	Hofman, Alton	1962	I	337	4	337	O
(A-12-1)19bdc-1	Spiers, Bernard & Steven	1983	S	134	10.6	134	P 114-134
(A-12-1)20daa-2	Osiale, J.W.	1944	S	55	2	—	P 45-(?)
(A-12-1)21ada-1	Rich, Russell E.	1940	—	74	2	—	—
(A-12-1)21caa-2	Jensen, H. & R.	1972	S	140	3	140	O
(A-12-1)21daa-1	North Logan city	1973	P	444	16	444	P 284-325 346-430
(A-12-1)23add-1	Yeates, Brent	1990	H	350	6.5	350	P 316-350
(A-12-1)24ada-1	Neilson, M.	—	H	—	—	—	—
(A-12-1)24add-1	North Logan city	1990	P	498	16,12	498	P 152-209 248-343 363-498
(A-12-1)27cab-1	Logan city	1963	P	800	20,16	800	P 350-370 397-417 473-493 540-560 600-620 650-790
(A-12-1)27ddc-1	Logan city	1961	P	470	20,16,12	467	P 315-325 335-365 375-385 395-440
(A-12-1)28bdd-1	Jones, John C.	1986	I	162	12.8	162	P 143-159
(A-12-1)29cab-1	Gossner, Edward	1900	U	43	2	—	—
(A-12-1)29dad-1	Jones, John C.	1981	I	164	16.10	164	P 128-159
(A-12-1)30adc-1	Lundberg, Heber	1930	—	41	2	—	—
(A-12-1)31bdc-1	Gumand, T.L.	1934	—	198	2	—	—
(A-12-1)31dab-2	Nish, R.T.	1976	I	—	4	—	—
(A-12-1)32dba-1	Hunsaker, T.E.	1950	H	119	2	—	P 109-119

## selected wells—Continued

Altitude of land surface (feet)	Water level		Water-quality parameters				Other data available
	Above (-) or below land surface (feet)	Date	Yield	Date	Temperature (°C)	Specific conductance ( $\mu\text{S}/\text{cm}$ )	
	(feet)		(gal/min)				
4,520	39.06	04-02-91	1,350 P	11-10-70	—	—	—
4,485	31.12	04-02-91	—	—	—	—	—
4,435	-19.8	03-28-91	8.6 F	03-28-91	13.0	465	03-28-91
4,435	-21.3	03-19-91	5.4 F	03-19-91	15.5	1,000	03-19-91
4,435	-8.5	04-02-91	5.4 F	04-02-91	13.0	460	04-02-91
4,433	—	—	—	—	—	—	—
4,430	-34.9	03-19-91	8.6 F	03-19-91	15.5	1,460	03-19-91
4,440	-8.5	04-02-91	4.3 F	04-02-91	12.5	530	04-02-91
4,440	-8.1	03-29-91	.9 F	03-29-91	11.0	750	03-29-91
4,460	-21.1	04-03-91	7.5 F	04-03-91	13.5	540	04-03-91
4,760	212.09	04-02-91	—	—	—	—	—
4,900	404.80	04-03-91	—	—	—	—	—
4,455	-10.8	04-02-91	12 F	04-02-91	14.5	700	04-02-91
4,450	-13.5	03-09-91	3.3 F	03-09-91	20.0	490	03-09-91
4,450	1.09	03-18-91	—	—	—	—	—
4,428	-6.4	03-26-91	—	—	8.5	—	03-26-91
4,428	-16.2	03-26-91	1.2 F	03-26-91	10.5	470	03-26-91
4,455	-7.4	03-21-91	7.3 F	03-21-91	16.5	510	03-21-91
4,490	—	—	—	—	—	—	—
4,550	-7.2	04-02-91	—	—	13.0	—	04-02-91
4,495	54.00	04-02-91	—	—	—	—	L
4,760	—	—	—	—	—	—	—
5,060	—	—	—	—	—	—	—
5,060	64.57	04-02-91	600 P	11-29-90	—	—	W
4,550	—	—	—	—	—	—	—
4,485	2.80	03-06-91	—	—	—	—	—
4,440	-12.3	03-06-91	—	—	16.5	500	03-06-91
4,475	—	—	500 F	03-06-91	—	—	—
4,428	—	—	—	—	—	—	—
4,432	—	—	—	—	—	—	—
4,430	-26.8	03-07-91	8.6 F	03-01-90	14.5	415	03-07-91
4,450	-3.7	03-13-91	1.37 F	03-13-91	12.0	470	03-13-91

Table 1.—Records of

Location	Owner or user	Year drilled	Use of water	Depth of well (feet)	Casing		
					Diameter (inches)	Depth (feet)	Finish (feet)
(A-12-1)32dbd-2	L.D.S. Church	1970	I	140	8	140	O
(A-12-1)33bac-3	Jorgensen, Ester	—	U	—	2	—	—
(A-12-1)33bcs-1	Benson, K.E.	1953	S	147	2	—	—
(A-12-1)33bcc-3	Eliason Packing Co.	1940	S	64	—	—	—
(A-12-1)34ccs-1	Logan city	1963	P	1,000	20,16	975	P 485-530 635-835
(A-12-1)34ccc-1	Logan Island Irrigation Co.	1934	I	119	12	119	O
(A-12-1)35bba-1	Utah State University	1963	T	434	12.8	434	P 380-415
(A-12-1)35bcc-1	Logan city	1963	P	978	20	—	P 305-330 410-450 510-525 650-750 830-880 925-945
(A-13-1)3bab-1	Bair, F.A.	1926	S	125	3	—	—
(A-13-1)3bab-1	Mendonhall, O.J.	1930	I	125	2	—	—
(A-13-1)9bab-1	—	—	U	—	10	—	—
(A-13-1)10dba-1	Eaves, Phil	1963	H	175	6	175	P 100-175
(A-13-1)10dbb-2	Eaves, Phil	—	H	15	36	15	O
(A-13-1)11bb-1	Mendonhall, O.J.	1951	S	21	6	21	P 11-(?)
(A-13-1)16ccb-1	Miles, A.A.	1918	S	90	3	—	—
(A-13-1)17abb-2	Tout, Phil	—	S	230	4	—	—
(A-13-1)20aca-1	Amalga town	1974	P	114	24.8	114	P 86-108
(A-13-1)20acb-1	Amalga town	1962	P	107	4	107	O
(A-13-1)20acb-2	Amalga town	1921	P	139	2	139	P 105-139
(A-13-1)20acb-3	Amalga town	1947	P	98	4	98	P 88-96
(A-13-1)20acc-2	Fisher, G.R.	1925	S	90	3	—	—
(A-13-1)28aaa-1	Logan Northern Irrigation Co.	1962	I	477	20	477	P 181-474
(A-13-1)28cab-1	Smithfield city	1968	P	210	12	210	P 122-158 190-210
(A-13-1)28cod-1	Chambers, G.L.	1967	H	131	4	131	O
(A-13-1)28ddab-1	Smithfield Irrigation Co.	1954	I	195	12	—	P 105-(?)
(A-13-1)28dbd-1	Smithfield Irrigation Co.	1961	I	315	16	315	P —
(A-13-1)29adc-1	Cannell, J.C.	1919	U	106	2	106	O
(A-13-1)31ccc-1	Reese, A.C.	1918	S	400	2	400	O
(A-13-1)32ddaa-1	Weeks, David	1953	I	131	4	—	P 101-111
(A-13-1)34ccb-1	Del Monte Corporation	1953	N	315	12	315	P 135-140 206-216 262-267 282-284 313-315
(A-13-1)35ccc-1	R & J Farms	1990	S	200	6	199	P 160-195
(A-14-1)28bbd-1	Larsen, C.M.	1953	H	160	4	156	P 146-150
(A-14-1)29cod-1	Larsen, S.W.	1949	C	105	4	—	P 82-92
(A-14-1)5odb-1	Rupp, Milo A.	1965	I	7	48	—	O
(A-14-1)6ccc-1	Karen, Fred	—	I	20	36	—	—

## selected wells—Continued

Altitude of land surface (feet)	Above (-) or below land surface (feet)	Date	Water level		Water-quality parameters			Other data available
			Yield	Date	Temperature (°C)	Specific conductance ( $\mu\text{S}/\text{cm}$ )	Date	
4,450	—	—	—	—	—	—	—	—
4,486	6.19	03-13-91	—	—	—	—	—	—
4,480	-5.8	03-13-91	4.76 F	03-13-91	13.0	410	03-13-91	—
4,470	-4.7	03-13-91	—	—	11.5	410	03-13-91	—
4,550	—	—	—	—	—	—	—	—
4,530	44.09	03-08-91	—	—	—	—	—	W
4,785	—	—	—	—	—	—	—	D
4,600	—	—	—	—	—	—	—	L
4,495	-5.2	04-02-91	.25F	04-02-91	9.0	680	04-02-91	—
4,495	-14.7	04-03-91	—	—	6.5	660	04-03-91	—
4,470	—	—	—	—	—	—	—	—
4,580	32.30	04-04-91	—	—	—	—	—	—
4,560	7.41	04-04-91	—	—	—	—	—	—
4,625	9.30	04-04-91	—	—	—	—	—	—
4,480	5.06	03-28-91	—	—	—	—	—	—
4,460	-20.6	03-28-91	150 F	03-28-91	13.0	1,390	03-28-91	—
4,460	—	—	—	—	—	—	—	—
4,460	—	—	—	—	—	—	—	—
4,460	—	—	—	—	—	—	—	—
4,460	—	—	—	—	—	—	—	—
4,465	-8.7	03-28-91	12 F	03-28-91	11.5	475	03-28-91	—
4,595	118.00	03-14-91	3,560 P	08-21-90	—	—	—	—
4,595	115.32	04-03-91	—	—	—	—	—	—
4,530	—	—	—	—	—	—	—	—
4,510	18.24	04-03-91	—	—	—	—	—	—
4,570	98.40	04-03-91	1,590 P	08-03-90	—	—	—	—
4,545	67.26	04-03-91	360 P	08-19-87	—	—	—	—
4,490	12.53	03-08-91	—	—	—	—	—	W
4,440	-8.1	03-19-91	.3 F	03-12-91	12.0	940	03-19-91	—
4,475	-1.1	03-28-91	1.8 F	03-28-91	12.5	600	03-28-91	—
4,555	69.71	04-02-91	—	—	—	—	—	—
4,620	138.10	04-02-91	285 P	08-24-90	—	—	—	—
4,490	23.40	03-28-91	—	—	—	—	—	—
4,490	27.47	03-28-91	—	—	—	—	—	—
4,505	2.62	03-28-91	—	—	—	—	—	—
4,505	5.85	09-23-86	—	—	—	—	—	W

Table 1.—Records of

Location	Owner or user	Year drilled	Use of water	Depth of well (feet)	Casing		
					Diameter (inches)	Depth (feet)	Finish (feet)
(A-14-1)11cac-1	Lewiston city	1971	P	200	12	200	P 70-190
(A-14-1)1dbb-1	Larson, Boyd	1977	I	215	12	210	P 70-210
(A-14-1)11ddc-1	Allen, Claire	1977	I	224	12	224	P 127-224
(A-14-1)14aac-1	Parsons, Jack	1981	N	256	12	256	P 200-250
(A-14-1)14bac-1	Leavitt, Glade	1977	I	220	12	720	P 128-149 158-217
(A-14-1)14ccc-1	Richmond Irrigation Co.	1978	I	297	12	297	P 100-290
(A-14-1)15aad-1	Larson Brothers	1966	S	82	6	82	O
(A-14-1)16dad-1	Hurne, Wendel	1962	U	9	36	—	H
(A-14-1)12bad-1	Stoddard, C.B.	1931	S	114	3	114	O
(A-14-1)16cba-1	Christensen, W.	1949	H	94	6	—	P 82-94
(A-14-1)23odd-1	Jacobsen, S.F.	1979	D	603	16,10	603	P 450-470
(A-14-1)25ccb-1	Christensen	1989	D	306	6	94	O
(A-14-1)33abb-1	—	—	S	—	2	—	—
(A-14-1)34aeb-1	Crockett Well Co.	1931	I	150	12	100	P 10-68
(A-14-1)34add-1	Richmond city	1977	P	504	20,16	504	P 150-185 192-256 397-504
(A-14-1)34bdc-1	Thompson, W.G.	1925	I	145	3	—	—
(A-14-1)34dca-2	Richmond Irrigation Co.	—	I	—	—	—	—
(A-14-1)36ccco-1	Lindley	1987	H	242	6	242	P 220-235
(A-15-1)55cda-1	Gadde, D.R.	1955	I	301	10	235	P 148-170 208-234
(A-15-2)31cba-1	State Of Utah	1935	U	350	8,6	330	—
(B-10-1)1aa-1	Balls, Lloyd	—	H	134	36,6	134	—
(B-10-1)3aab-1	Wellsville city	1978	P	393	20,16	393	P 180-236 248-256 293-321 330-339 354-385
(B-10-1)11dad-1	Gunnell, Leland	1980	S	178	6	178	P 135-145 157-165
(B-10-1)12aaa-1	Bailey, O.S.	1890	S	60	2	—	—
(B-10-1)13bbd-1	Gunnell, Leland	—	S	185	—	—	—
(B-10-1)15ddc-1	Lindley, Reed	1978	I	250	10,8	250	P 188-250
(B-11-1)1bdd-2	Stewart, Larry	1981	H	160	6	160	P 147-157
(B-11-1)2bdc-1	Kropfli, William	1942	H	230	2	—	O
(B-11-1)4cas-1	Shelton, Verland	1914	S	100	2	—	—
(B-11-1)5ddc-1	Maurer, Dean	1968	S	100	4	—	—
(B-11-1)8aad-1	Sorenson, Owen	1926	S	70	2	—	—
(B-11-1)9cbb-1	Longstroth, William	1955	S	136	2	136	P 126-136
(B-11-1)9ccb-2	U.S. Geological Survey	1990	U	6.4	2	6.4	S 3-6
(B-11-1)11caa-1	Hodgeon, W.N.	1986	I	200	4	—	—
(B-11-1)12ddd-1	Isreason, Victor	1986	H	104	4	104	P —

## selected wells—Continued

Altitude of land surface (feet)	Above (-) or below land surface (feet)	Date	Water level		Water-quality parameters			Other data available
			Yield	Date	Temperature (°C)	Specific conductance (μS/cm)	Date	
4,525	55.08	04-04-91	—	—	—	—	—	W
4,530	60.34	03-07-69	—	—	—	—	—	D
4,560	91.84	03-13-91	490 P	08-01-90	—	—	—	—
4,700	—	—	450 P	08-20-90	—	—	—	—
4,555	89.84	03-13-91	1,850 P	01-10-78	—	—	—	—
4,530	73.48	03-08-91	1,820 P	09-13-78	—	—	—	W
			1,380 P	08-01-90	—	—	—	—
4,515	50.33	03-13-91	—	—	—	—	—	—
4,500	7.90	04-02-91	—	—	—	—	—	—
4,466	-0.7	03-08-91	3.5 F	07-24-90	10.0	485	07-24-90	W,C,D
4,555	83.37	04-02-91	—	—	—	—	—	—
4,600	56.78	04-02-91	—	—	—	—	—	L
4,960	15.2*	04-02-91	—	—	—	—	—	—
4,440	-5.6	04-03-91	2.0 F	04-03-91	—	—	—	—
4,540	20.20	03-08-91	426 P	08-19-76	—	—	—	W
4,580	95.00	04-04-91	751 P	11-30-77	—	—	—	L
4,490	-13.7	04-02-91	12.9 F	04-02-91	10.5	660	04-02-91	—
4,520	—	—	—	—	—	—	—	—
5,020	182.60	04-03-91	—	—	10.5	660	04-02-91	—
4,475	6.32	03-28-91	—	—	—	—	—	—
4,620	-1.1	04-01-91	.42 F	04-01-91	13.5	300	04-01-91	L
4,580	97.19	03-12-91	—	—	—	—	—	—
4,540	—	—	860 P	04-17-78	—	—	—	L
4,680	20.75	03-06-91	—	—	—	—	—	W
4,640	-8.3	03-12-91	—	—	11.0	640	03-12-91	—
4,800	—	—	—	—	—	—	—	—
4,840	—	—	—	—	—	—	—	—
4,430	-46.2	03-19-91	50 F	01-29-81	10.0	620	03-19-91	—
4,415	-24.8	03-20-91	—	—	—	—	—	—
4,415	-6.4	03-18-91	1.71 F	03-18-91	10.5	790	03-18-91	—
4,475	7.04	03-18-91	—	—	—	—	—	—
4,415	-3.0	03-18-91	.73 F	03-18-91	10.0	800	03-18-91	—
4,420	-5.5	03-06-91	.6 F	03-06-91	9.5	970	03-06-91	W,C,D
4,420	1.31	03-06-91	—	—	—	—	—	—
4,425	-12.6	03-19-91	15 F	03-19-91	12.0	620	03-19-91	—
4,435	-31.0	03-19-91	185 F	06-10-86	10.5	490	03-19-91	—

Table 1.—Records of

Location	Owner or user	Year drilled	Use of water	Depth of well (feet)	Casing		
					Diameter (inches)	Depth (feet)	Finish (feet)
(B-11-1)13acd-1	Jensen, C.A.	1949	H	95	2	—	P 85-95
(B-11-1)14aaa-3	L.D.S. Young Ward	1951	N	203	2	—	P 193-203
(B-11-1)14cab-1	Lewis, T., & Jensen Brothers	1969	I	283	12.8	283	P 239-264
(B-11-1)14cdb-1	Olsen, Evan	1963	I	310	12.8	310	P 241-283 266-271 281-310
(B-11-1)14cdo-1	Stuart, Charles	1917	I	220	3	—	—
(B-11-1)14ddd-3	Glen, Mary	1965	I	296	12.8	296	P 174-189 230-248 254-265 277-290
(B-11-1)15ccb-1	Hardman, E.B.	1896	S	75	2	—	—
(B-11-1)15cde-1	Anderson, Willis	1933	S	160	2	—	P —
(B-11-1)16aca-1	Sorensen, Claud	1937	S	82	2	22	O
(B-11-1)16add-1	Sorensen, Henry	1919	S	80	2	—	—
(B-11-1)16ccc-1	Moon, Marvin	—	H	250	—	—	—
(B-11-1)17add-1	Mendon city	1978	P	148	10	148	P 120-148
(B-11-1)21abd-1	Leishman, Donald P.	1977	S	135	3	135	O
(B-11-1)22ccb-1	Haslam, Legrand	1935	U	132	2	100	O
(B-11-1)22ccb-1	Murray, Henry	1962	S	75	2	75	P 65-75
(B-11-1)23bbc-1	Hill, Ray	—	I	270	10	269	P 186-191 235-268
(B-11-1)23dcb-1	Anderson, Eldon	1918	S	166	2	—	—
(B-11-1)24acd-1	Anderson, Hyrum	1915	S	120	2	—	—
(B-11-1)25cda-2	Utah State University	1981	H	212	8	212	P 187-207
(B-11-1)26bab-1	Bankhead, Heber	1921	S	55	2	—	—
(B-11-1)27bbb-1	—	—	U	29	30	—	—
(B-11-1)27cdc-1	Darley, R.M.	1972	H	194	6	188	O
(B-11-1)33das-1	Maughan, Curtis	1906	H	297	6	297	P 260-295
(B-11-1)34bac-1	Hamilton, Dixon	1987	H	173	6	173	P 160-167
(B-11-1)35caa-1	Leishman, James A.	1923	—	65	2	—	—
(B-11-1)35caa-2	Leishman, James A.	1923	S	120	—	—	—
(B-11-1)35ccca-1	Brenchley, John	1923	S	65	2	65	O
(B-12-1)1occ-2	Ballard, M.J.	1956	H	590	2	—	P 584-(?)
(B-12-1)2bab-1	Falslev, Chad	1987	H	555	4.2	555	S 545-555
(B-12-1)3occ-1	Waterson, J.L.	—	H	—	2	—	—
(B-12-1)8cdp-2	Rasmussen, Reuben	1889	S	210	2	30	O
(B-12-1)9ddid-1	Benson Recreation Area	1969	U	576	2	—	O
(B-12-1)10ddd-2	Nuttall, J.L.	1954	H	533	2	—	P 522-(?)
(B-12-1)11bbc-4	Johnson, W.D.	1990	S	606	4.2	502	S 326-336
(B-12-1)11dda-1	Snow, F.B.	1962	H	545	2	545	P 535-545
(B-12-1)14aaa-1	Riggs, Bert	1929	S	304	2	—	—
(B-12-1)15adc-1	Ricks, Charles Ethan	1941	I	418	2	418	O

## selected wells—Continued

Altitude of land surface (feet)	Above (-) or below land surface (feet)	Date	Water level		Water-quality parameters			Other data available
			Yield (gal/min)	Date	Temperature (°C)	Specific conductance (μS/cm)	Date	
4,435	-23.2	03-19-91	100 F	03-19-91	11.5	540	03-19-91	W
4,430	-25.4	03-08-82	—	—	—	—	—	—
4,435	—	—	42.5 F	03-19-91	—	—	—	—
4,440	—	—	—	—	—	—	—	L
4,445	-23.0	03-19-91	—	—	—	—	—	—
4,440	—	—	—	—	—	—	—	—
4,420	-5.7	03-19-91	3.5 F	03-19-91	10.0	680	03-19-91	—
4,420	-19.1	03-19-91	6.4 F	03-19-91	11.0	560	03-19-91	—
4,420	-7.5	03-18-91	.73F	03-18-91	10.0	610	03-18-91	—
4,420	-6.8	03-18-91	.3 F	03-18-91	10.0	680	03-18-91	—
4,530	76.10	03-18-91	—	—	—	—	—	—
4,500	—	—	824 P	05-00-78	—	—	—	—
4,440	-7.0	03-12-91	1.15 P	03-12-91	10.5	590	03-12-91	—
4,435	-5.7	03-20-91	—	—	—	—	—	—
4,440	-0.67	03-12-91	—	—	—	—	—	—
4,430	—	—	—	—	—	—	—	—
4,441	-25.8	03-11-91	—	—	11.0	660	03-11-91	—
4,455	-16.6	03-11-91	—	—	—	—	—	—
4,485	11.76	03-06-91	—	—	—	—	—	—
4,440	-11.4	03-11-91	.5 F	03-11-91	8.5	1,000	03-11-91	—
4,485	—	—	—	—	—	—	—	—
4,600	56.02	03-12-91	—	—	—	—	—	—
4,800	285.35	03-12-91	—	—	—	—	—	—
4,580	78.31	03-12-91	—	—	—	—	—	—
4,476.67	—	—	.4 F	03-01-90	—	—	—	—
4,476.67	—	—	.3 F	06-28-90	—	—	—	—
4,470	0	03-10-80	—	—	—	—	—	W
4,475	-3.6	03-06-91	—	—	10.0	740	03-06-91	W,C
4,435	-34.0	03-20-91	—	—	17.0	1,600	03-20-91	—
4,422	-51.7	03-20-91	9.2 F	03-20-91	17.5	1,790	03-20-91	—
4,410	-11.4	03-21-91	8.8 F	03-21-91	16.0	840	03-21-91	—
4,430	-5.5	03-09-91	1.2 F	03-09-91	12.0	730	03-09-91	W,C,D
4,409	-3.0	03-20-91	—	—	18.5	900	03-20-91	—
4,420	-12.3	03-21-91	6.0 F	03-21-91	23.5	820	03-21-91	—
4,422	—	—	509 F	09-06-90	—	—	—	—
4,425	-2.6	03-21-91	6.7 F	03-21-91	17.0	1,500	03-21-91	—
4,425	-10.5	03-21-91	20 F	03-21-91	14.5	475	03-21-91	—
4,415	-10.8	03-07-91	1.6 F	03-17-91	17.0	860	03-07-91	W,C,D

Table 1.—Records of

Location	Owner or user	Year drilled	Use of water	Depth of well (feet)	Casing		
					Diameter (inches)	Depth (feet)	Finish (feet)
(B-12-1)15add-2	Ricks, Charles Ethan	—	I	297	2	297	T —
(B-12-1)15add-3	U.S. Geological Survey	1960	U	9.4	2	9.4	S 6-9
(B-12-1)19cca-1	Hanson, Craig	1983	P	340	10	340	P 200-340
(B-12-1)19ddd-1	Rosen, Vickie & Cole, Brad	1988	H	177	6	177	P 140-177
(B-12-1)19ddd-2	Rosen, Vickie & Cole, Brad	—	H	40	6	—	—
(B-12-1)23dd-1	Benson, F.A.	1905	S	93	2	—	—
(B-12-1)24dss-1	Waterson, J.L.	1961	I	320	6	317	P 295-315
(B-12-1)24dd-1	Heabus, Joseph	1919	H	—	2	—	—
(B-12-1)26add-1	Utah Power & Light	—	S	450	2	—	—
(B-12-1)26cca-1	Schwanenfeldt	1944	S	248	2	248	O
(B-12-1)30abb-1	Hanson, Craig	1983	P	240	8	240	P 130-240
(B-12-1)32abc-1	Johson, Milton	—	U	460	3	—	—
(B-13-1)10bba-1	Erickson, Lynn	1964	U	258	12	258	P 50-250
(B-13-1)16bcd-1	Larsen, J.G.	1971	H	210	8	206	P 50-200
(B-13-1)17dad-2	Larsen, O.G.	1961	S	138	5	138	P 110-118
(B-13-1)27ccb-1	Anderson, Lynn	—	S	40	2	—	—
(B-13-1)27cd-1	Seamons, N.B.	1961	H	930	2	918	P 908-918
(B-13-1)28abb-1	Ringer, Wayne B.	1970	I	130	8	130	P 30-120
(B-13-1)30ecc-1	Ballard, E.R.	1907	U	90	2	90	O
(B-13-1)30cca-1	Union Pacific Railroad	1957	P	327	10	327	P 70-78
						145-157	
						196-200	
						251-254	
						301-315	
(B-13-1)30cab-1	Walton Feed Store	—	N	176	6	—	—
(B-13-1)30cba-2	Walton Feed Store	—	H	40	2	—	—
(B-13-1)36cca-1	Thain, Paul	1964	H	723	2	723	O
(B-14-1)3odd-1	Buxton, Verl	—	U	271	2	—	—
(B-14-1)5ddd-1	Trosseth, Soine	—	H	26	48	—	—
(B-14-1)17add-1	Town of Comish	1967	P	92	8	92	P 51-56
						58-68	
						69-85	
(B-14-1)28cca-1	Granchell, Dave	1979	I	215	10	116	P 100-115
(B-14-1)29bbc-1	Ravsten, B.J.	1900	S	24	30	—	W
(B-14-1)31aaa-1	Bureau of Reclamation	1955	U	23	3	23	—
(B-14-2)28dd-1	Ravsten, J.N.	1970	I	100	12	100	P 78-90
(B-14-2)27ddd-1	Jardine, Sterling	1964	U	70	4	—	—
(B-14-2)35bca-1	Bureau of Reclamation	1954	U	8	3	—	P —
(B-15-1)34ccc-1	City of Comish	1961	U	410	12	399	P 283-303
						325-330	
(B-15-1)34ccc-2	Town of Comish	—	U	32	12	—	—
13S 38E 03DDB1	Millard, Wayne	1961	I	382	16	382	P 47-382
						382-400	
13S 38E 04AAB1	Sorensen, Gene	1962	H	94	8	94	P 30-94
13S 38E 04BDA1	Sorensen, Gene	—	I	—	—	—	—

## selected wells—Continued

Altitude of land surface (feet)	Water level		Water-quality parameters				Other data available	
	Above (-) or below land surface (feet)	Date	Yield (gal/min)	Date	Temperature (°C)	Specific conductance (μS/cm)		
	—	—						
4,415	-7.3	03-07-91	4.0 F	03-07-91	17.0	890	03-07-91	
4,415	4.88	03-07-91	—	—	—	—	W,C,D	
4,660	—	—	—	—	—	—	L	
4,527	22.22	03-18-91	11 P	07-15-88	—	—	—	
4,527	23.00	03-08-91	—	—	—	—	—	
4,410	-7.2	03-21-91	4.6 F	03-21-91	12.0	430	03-21-91	
4,425	-37.1	03-26-91	8.6 F	03-26-91	12.0	405	03-26-91	
4,425	-12.8	03-22-91	15 F	03-22-91	11.0	450	03-22-91	
4,419	-7.2	03-22-91	—	—	12.0	410	03-22-91	
4,420	-12.0	03-07-91	.6 F	01-16-91	12.0	580	03-07-91	
4,604	18.95	03-06-91	—	—	—	—	—	
4,510	-4.0	03-18-91	1 F	03-18-91	—	—	—	
4,485	4.87	03-07-91	7 P	03-26-81	—	—	W	
4,645	140.68	03-14-91	—	—	—	—	L	
4,620	96.64	03-14-91	—	—	—	—	—	
4,420	-2.2	03-14-91	2.8 F	03-14-91	10.5	1,370	03-14-91	
4,415	-43.8	03-14-91	15.0 F	03-14-91	17.5	1,310	03-14-91	
4,460	11.68	03-07-91	110 P	05-05-70	—	—	W	
4,410	-17.0	03-07-91	.4 F	03-07-91	10.5	600	03-07-91	
4,445	-0.5	03-27-91	—	—	—	—	W,D	
4,555	12.63	03-27-91	—	—	—	—	—	
4,548	16.98	03-27-91	—	—	—	—	—	
4,440	-27.3	03-20-91	15 F	03-20-91	18.0	1,750	03-20-91	
4,480	-3.8	03-15-91	—	—	—	—	—	
4,525	16.26	03-15-91	—	—	—	—	—	
4,555	—	—	—	—	—	—	—	
4,640	47.63	03-19-91	300 P	12-06-79	—	—	—	
4,800	14.19	03-19-91	—	—	—	—	—	
4,790	11.35	03-04-87	—	—	—	—	W	
4,800	-0.3	03-27-91	—	—	—	—	—	
4,890	15.95	03-07-91	—	—	—	—	W	
4,790	1.96	03-27-91	—	—	—	—	—	
4,510	9.74	03-07-91	—	—	—	—	W	
4,515	11.05	03-07-91	—	—	—	—	W	
4,850	23.45	03-07-91	—	—	—	—	W	
4,800	30.98	03-11-91	—	—	—	—	—	
4,790	—	—	190 P	07-31-90	—	—	—	

Table 1.—Records of

Location	Owner or user	Year drilled	Use of water	Depth of well (feet)	Casing		
					Diameter (inches)	Depth (feet)	Finish (feet)
13S 3E 05DCA1	Gibbs	—	I	—	—	—	—
13S 3E 05DCC1	Gibbs	—	I	—	—	—	—
13S 3E 08ABA1	Sorensen, Doug	—	U	100	4	100	—
13S 3E 08BAB1	Sorensen, Doug	—	I	—	—	—	—
13S 3E 10CCC1	Hadley, Robert	—	U	250	16	—	—
13S 3E 10CCC1	Hadley, Robert	1965	I	310	16	310	P 109-111 130-132 208-209 217-224
13S 3E 12CAA1	Merrel, Lynn	—	U	—	16	—	—
13S 3E 16BAC1	Nordick, Albert	1977	I	160	16	160	P 15-160
13S 3E 17DCD1	Fisher, Doug	1961	I	232	14	232	P 60-229
13S 3E 18DAD1	Sorensen, Gene	1961	I	400	20	—	P —
13S 3E 22DDD1	Bosworth, Brigham	—	H	—	8	—	—
13S 3E 26AAD1	Allen, A.P.	—	S	—	2	—	—
13S 3E 28DDC1	Beal, Frank	—	I	218	14	218	P 102-218
13S 3E 33BDU1	Kendall, Lavern	1961	I	265	12	—	P 32-245 245-265
13S 4E 30ACB1	Hymas, Mack	1963	I	290	14	—	—
13S 4E 30CCA1	Hymas, Mack	—	I	—	8	—	—
14S 3E 02ACD1	—	—	I	—	16	—	—
14S 3E 04BBC1	Richens, Claude	—	I	136	12	—	—
14S 3E 04BBC1	Richens, Claude	1978	I	275	16	250	—
14S 3E 09BBA1	Petersen, Randy	1980	U	175	16	175	P 70-170
14S 3E 09BCD1	Beckstead, Marcel & Petersen, R.	—	I	50	—	50	P —
14S 3E 12ABA1	Reay, Verlyn	—	H	60	6	60	P 20-60
14S 3E 14CAA1	Hamilton, Cleofus	—	I	—	12	—	—
14S 3E 15CAA1	—	—	I	—	—	—	—
14S 3E 15CDC1	Mumford, Eugene	1937	I	200	12	—	P —
14S 3E 15DCC2	Martinez, Pas	1963	U	217	10	217	P 128-154 159-170 187-189 196-214
14S 3E 15BBB1	Ralphs, Dale	1961	I	190	16	—	P —
14S 3E 16BBB1	Werdel, Arthur C.	1963	H	155	12	—	—
14S 3E 16BDD1	Gailey, Willard	1961	I	300	16	300	P 54-293
14S 3E 16CAA1	Smart, Wayne	—	I	180	12	180	P 70-180
14S 3E 22ABA2	McDermott, Lou	1967	I	200	12	200	P 160-200
14S 3E 22ABA2	McDermott, Lou	—	U	165	4	—	—
14S 3E 22BDB1	Ralphs, Dennis	1959	I	180	16	—	P —
14S 3E 22BDB1	Clifton Village	1955	P	202	12	—	P 117-124 145-147 153-156 173-177 182-184 187-201
14S 3E 22BDD1	Povey, Leonard	1961	I	220	16	—	P 112-220

## selected wells—Continued

Altitude of land surface (feet)	Above (-) or below land surface (feet)	Date	Water level		Water-quality parameters			Other data available
			Yield (gal/min)	Date	Temperature (°C)	Specific conductance (µS/cm)	Date	
4,910	—	—	—	—	—	—	—	—
4,930	—	—	300 P	07-31-90	—	—	—	—
4,920	65.34	03-11-91	—	—	—	—	—	—
5,060	—	—	2,000 P	08-01-90	—	—	—	—
4,840	25.60	03-11-91	—	—	—	—	—	—
4,800	—	—	—	—	—	—	—	—
5,120	49.06	03-12-91	—	—	—	—	—	—
4,860	—	—	—	—	—	—	—	—
5,040	—	—	—	—	—	—	—	—
5,240	—	—	1,030 P	08-01-90	—	—	—	—
4,860	31.00	03-19-91	—	—	—	—	—	—
4,760	-17.5	03-27-91	12.0 F	03-27-91	12.0	1,060	03-27-91	—
4,780	.99	03-14-91	—	—	—	—	—	—
4,785	16.40	03-14-91	550 P	08-02-90	—	—	—	L
5,050	34.56	03-07-91	670 P	07-31-90	—	—	—	W
5,020	—	—	—	—	—	—	—	—
4,750	10.25	03-19-91	—	—	—	—	—	—
4,800	12.28	03-07-91	—	—	—	—	—	W
4,840	—	—	1,000 P	08-02-90	—	—	—	—
4,820	77.05	03-14-91	—	—	—	—	—	—
4,780	45.44	03-14-91	—	—	—	—	—	—
4,750	1.69	03-19-91	—	—	—	—	—	—
4,750	—	—	—	—	—	—	—	—
4,760	—	—	610 P	08-02-90	—	—	—	—
4,800	33.91	03-07-91	490 P	08-02-90	—	—	—	W
4,780	—	—	—	—	—	—	—	—
4,835	—	—	60.0 F	04-12-90	—	—	—	—
4,840	—	—	40.0 F	04-12-90	—	—	—	—
4,840	—	—	—	—	—	—	—	—
4,840	68.45	03-14-91	—	—	—	—	—	—
4,750	7.75	03-14-91	—	—	—	—	—	—
4,760	—	—	—	—	—	—	—	—
4,795	45.66	04-04-91	—	—	—	—	—	—
4,840	77.22	04-04-91	—	—	—	—	—	—
4,840	—	—	—	—	—	—	—	—

Table 1.—Records of

Location	Owner or user	Year drilled	Use of water	Depth of well (feet)	Casing		
					Diameter (inches)	Depth (feet)	Finish (feet)
14S 38E 23CCC1	Johnson, Roy	—	I	—	—	—	P 356-392
14S 38E 26DAB1	Choules, Jack	1960	I	520	14	—	398-418 442-446 449-489 490-520
14S 38E 27DDD1	—	—	I	—	8	—	—
14S 39E 01BDD1	Paskins, Edward	1957	H	118	6	—	P —
14S 39E 07BBD1	Gregorson, Ernest	1955	I	631	12	—	P —
14S 39E 08ADA1	Lindhardt, Ross	1961	I	206	12	205	P 30-205 205-206
14S 39E 09BAD1	Johnson, Dave	1961	I	210	20,16	210	P 95-210
14S 39E 29ADD1	L.D.S. Winder Ward	—	U	24	24	24	W
14S 39E 32ADA1	Swanson, Heber	—	U	25	36	25	W
14S 39E 36ACB2	Henderson	—	H	21	4	—	O
14S 40E 30BDC1	Workman, Ron & Todd	—	U	250	12	—	—
14S 40E 30BDC1	Smith, Elliot	—	H	30	8	30	P —
14S 40E 31BDA1	Sharp, Calvin	1968	H	60	6	60	O
15S 37E 36AAA1	Bingham, L.	1960	I	160	14	160	P 75-158
15S 38E 01BCB1	Howell, Kent	—	H	50	36	—	P —
15S 38E 11BBC1	Naylor, Jim	1961	I	204	16	190	P 70-190
15S 38E 11BBC1	Bergeson, E.O.	1961	I	245	12	—	P 40-220 227-245
15S 38E 14CCC1	Naylor, Jim	—	I	—	12	—	—
15S 38E 15DAD1	Dayton city	—	P	—	12	—	—
15S 38E 22DDC1	Housley, G.	1966	I	170	10	170	P 44-48 123-135 137-170
15S 38E 23AAA1	Buetter, Ernest	1962	I	475	20,16,12	475	P 357-475
15S 38E 24ADB1	Hamilton	—	U	150	10,6	150	O
15S 38E 30ACD1	Olsen, Keven	—	H	120	6	—	—
15S 38E 31BBC1	King, John	1961	I	155	16	155	P 80-150
15S 38E 34ADA1	Daly, Jerry	—	H	19	36	19	W
15S 38E 10BCC1	Carter, Laverne	—	H	15	36	15	W
15S 39E 14DDC1	Swan, Al	—	I	25	4	25	O
15S 39E 15CAD1	Bosen, Claire	—	U	9.4	36	—	O
15S 39E 16CAC1	Felows, Bob	1975	H	310	6,5	310	P 182-202 300-310
15S 39E 23BBB1	Taylor	1953	I	11	42	—	—
15S 39E 31CCB1	Bingham, Fred	—	H	50	4	50	P —
15S 39E 33CCD1	Graham	—	H	60	4	—	—
15S 39E 34CDC1	Nelson, Van E.	1940	S	11.2	36	—	W
15S 40E 18ABB1	Auger, Ron	—	H	—	36	—	W
15S 40E 19AAC1	Larsen, Arlo	—	H	350	6,4	350	P 340-350
15S 40E 19AAC2	Larsen, Arlo	—	H	550	3	500	P 500-550
15S 40E 20CCC1	Johnson, Kim	—	H	250	6	250	—

## selected wells—Continued

Altitude of land surface (feet)	Water level			Water-quality parameters				Other data available	
	Above (-) or below land surface (feet)	Date	Yield (gal/min)	Temperature (°C)		Specific conductance (µS/cm)	Date		
				Rate	Date				
4,780	39.24	03-14-91	—	—	—	—	—	—	
4,745	14.85	03-14-91	—	—	—	—	—	—	
4,760	7.20	03-15-91	—	—	—	—	—	—	
5,050	48.73	03-27-91	—	—	—	—	—	—	
4,750	3.53	03-12-91	270 P	07-31-90	—	—	—	—	
4,850	86.48	03-08-91	—	—	—	—	—	W	
4,885	—	—	—	—	—	—	—	—	
4,755	6.98	03-08-91	—	—	—	—	—	W	
4,750	19.96	03-12-91	—	—	—	—	—	—	
4,540	18.30	03-19-91	—	—	—	—	—	—	
4,760	113.45	03-27-91	—	—	—	—	—	—	
4,560	8.98	03-19-91	—	—	—	—	—	—	
4,580	26.68	03-19-91	—	—	—	—	—	—	
5,075	74.09	03-22-91	960 P	08-02-90	—	—	—	—	
4,740	24.68	03-15-91	—	—	—	—	—	—	
4,800	65.53	03-15-91	—	—	—	—	—	—	
4,800	—	—	630 P	08-02-90	—	—	—	—	
4,820	54.79	03-15-91	—	—	—	—	—	—	
4,815	57.50 R	03-13-91	—	—	—	—	—	—	
4,760	25.85	03-07-91	—	—	—	—	—	W	
4,750	57.36	03-15-91	—	—	—	—	—	—	
4,735	87.20	03-15-91	—	—	—	—	—	—	
4,160	22.10	04-04-91	—	—	—	—	—	—	
5,060	—	—	1,330 P	08-02-90	—	—	—	—	
4,770	13.38	03-22-91	—	—	—	—	—	—	
4,730	12.45	03-20-91	—	—	—	—	—	—	
4,730	4.45	03-21-91	—	—	—	—	—	—	
4,720	6.20	03-08-91	—	—	—	—	—	—	
4,565	—	—	30 P	07-08-75	—	—	—	W L	
4,725.4	4.14	09-05-94	—	—	—	—	—	W	
4,700	11.95	03-21-91	—	—	—	—	—	—	
4,660	24.97	03-26-91	—	—	—	—	—	—	
4,650	7.00	03-09-70	—	—	—	—	—	—	
4,860	8.00 R	03-20-91	—	—	—	—	—	—	
4,860	203.98	03-27-91	—	—	—	—	—	—	
4,860	195.98	03-27-91	—	—	—	—	—	—	
4,800	109.38	03-20-91	—	—	—	—	—	—	

Table 1.—Records of

Location	Owner or user	Year drilled	Use of water	Depth of well (feet)	Casing		
					Diameter (inches)	Depth (feet)	Finish (feet)
16S 40E 26BBD1	Fairview Water District	1978	P	300	10	300	O
15S 40E 29CCD1	Whitney Water Works	1939	P	175	6	—	P —
16S 40E 31DDD1	Whitney Water Works	1968	P	217	8	—	P 130-220 238-245
15S 40E 32BBA1	Whitney Water Works	1960	U	160	10	—	P —
16S 36E 01DCD1	Roberts, Mel	—	H	25	36	25	W
16S 36E 06AAC1	Nelson, Thomas	1961	I	109	10	109	P 63-109
16S 36E 08ABC1	Schwanewelt, Sidney	—	I	—	12	—	—
16S 36E 08BAB1	Williams, Herbert	1961	I	156	10	157	P 14-23 73-78 92-98 123-125 130-138 146-156
16S 36E 11BBC1	Bingham, Vereen	—	H	80	6	80	—
16S 36E 24BDD1	Kohler, P.L.	1969	I	566	16	—	P —
16S 39E 07CAD1	Bingham, Dean R.	1961	H	450	4	—	P —
16S 36E 09CCC1	Jensen, Floyd	1954	H	205	12	86.5	O
16S 39E 16CDA1	Ward, Steven H.	1961	H	462	14	—	P 204-212 238-242 252-265
16S 39E 19DBA1	Benson, Serge	1957	H	265	4	—	P —
16S 39E 22DDD1	Gilbert	—	N	10	36	10	O
16S 39E 30CAD1	Butler, C.D.	1931	H	12	36	—	W
16S 40E 07BBC1	Golightly	—	H	10	36	10	O
16S 40E 07DCD1	Whitley	—	P	—	12	—	—
16S 40E 08ACD1	Fairview Water District	1978	P	169	10.8	169	S 102-141 152-163
16S 40E 15CBC1	Riteway Corporation	—	N	—	6	—	—
16S 40E 17BBB1	Foster, Davis	1954	I	180	12	180	P 104-140 150-170
16S 40E 19CDB1	Womuck, Ronald	1978	H	48	10.8	48	P 9-47
16S 40E 20ABB1	Dinkley	—	H	10	36	10	W
16S 40E 20ACC1	Hobbs, W.P.	1963	I	250	12	—	—
16S 40E 20CCD1	—	—	I	—	8	—	—
16S 40E 21AAC2	Wright, Ramon	—	—	60	6	60	—
16S 40E 29BAD1	Bliss, Douglas	—	H	104	8	104	—
16S 40E 29CCB1	Franklin Cemetery	1950	U	81.5	10	70	O
16S 40E 29CCB2	U.S. Geological Survey	1990	U	19.2	2	19.2	S 16-19
16S 40E 30ABB1	Woodward, Ivan	1945	H	85	8	—	—

## selected wells—Continued

Altitude of land surface (feet)	Above (-) or below land surface (feet)	Date	Water level		Water-quality parameters			Other data available
			Yield (gal/min)	Date	Temperature (°C)	Specific conductance (μS/cm)	Date	
4,700	—	—	—	70 P 03-21-78	—	—	—	L
4,750	—	—	—	—	—	—	—	
4,680	—	—	—	—	—	—	—	
4,735	1.51	03-20-91	—	—	—	—	—	
4,635	12.03	03-22-91	—	—	—	—	—	
5,020	29.05	04-04-91	—	—	—	—	—	
4,940	—	—	1,220 P	08-02-90	—	—	—	
4,940	2.44	04-04-91	130 P	08-02-90	—	—	—	
4,760	.71	03-22-91	—	—	—	—	—	
4,585	58.81	03-21-91	2,500 P	06-00-69	—	—	—	
4,550	58.50	03-21-91	—	—	—	—	—	
4,550	4.62	03-27-91	—	—	—	—	—	
4,542.7	27.85	03-07-91	—	—	—	—	—	LW
4,550	39.75	03-21-91	—	—	—	—	—	
4,515	4.30	03-26-91	—	—	—	—	—	
4,550	11.94	03-21-91	—	—	—	—	—	
4,655	3.50	03-26-91	—	—	—	—	—	
4,545	—	—	—	—	—	—	—	
4,640	—	—	160 P	03-23-78	—	—	—	L
4,620	52.36	03-25-91	—	—	—	—	—	
4,550	14.52	03-20-91	240 P	07-30-90	—	—	—	
4,520	—	—	68 P	06-28-78	—	—	—	
4,520	6.42	03-26-91	—	—	—	—	—	
4,480	—	—	—	—	—	—	—	
4,495	—	—	—	—	—	—	—	
4,560	10.21	03-25-91	—	—	—	—	—	
4,450	-5.9	03-27-91	—	—	9.5	540	03-27-91	
4,504.9	22.44	03-08-91	—	—	—	—	—	
4,500	13.15	03-08-91	—	—	—	—	—	
4,500	0	03-26-91	—	—	—	—	—	

**Table 2.—Drillers' logs of selected wells**

**Location:** See page 2 for an explanation of the numbering systems for hydrologic-data sites.

**Altitude:** Altitude of land surface, in feet above sea level.

**Thickness:** In feet.

**Depth:** Depth to bottom of interval, in feet below land surface.

Material	Thickness	Depth	Material	Thickness	Depth
<b>(A-10-1)3ccc-1 Log by J. S. Lee and Sons</b>					
Altitude 4,800					
Topsoil	3	3			
Clay, gravel, and boulders	16	19			
Sand and gravel	9	28			
Clay, sandy	87	115			
Clay, gray	59	174			
Clay, sandy	38	212			
Clay, gray and sticky	5	217			
Clay, gravel, and boulders	21	238			
Clay and gravel, brown	21	259			
Clay and gravel, gray	14	273			
Clay, gravel, and boulders	24	297			
Conglomerate, hard	13	310			
Clay and gravel; first water	23	333			
Clay, gravel, and boulders	10	343			
Clay and gravel	19	362			
Conglomerate, hard	11	373			
Clay, gravel, and boulders; no water	12	385			
Clay, brown	14	399			
Clay, blue	4	403			
Clay, brown	5	408			
Clay, brown and sandy	5	413			
Conglomerate, hard; water	12	425			
Clay, sticky	3	428			
Conglomerate, hard; water	28	456			
Gravel and boulders	6	462			
Sand, coarse	17	479			
Clay and gravel	22	501			
Gravel and boulders	4	505			
Clay and gravel	28	533			
Gravel, traces of clay	19	552			
Clay	17	569			
Clay and gravel	6	575			
Clay and gravel, layered	55	630			
<b>(A-11-1)4cbd-2 Log by J. S. Lee and Sons</b>					
Altitude 4,495					
Fill and gravel	2	2			
Clay	2	4			
Silt and sand	18	22			
Clay and silt, gray	37	59			
Gravel, dirty	49	108			
Clay, brown	27	135			
Clay, gray	17	152			
<b>(A-11-1)4cbcd-2 Log by High Plains Drilling</b>					
Altitude 4,485					
Clay and gravel	9	9			
Clay	61	70			
Clay and gravel	20	90			
Sand and gravel	37	127			
Clay and gravel	93	220			

**Table 2.—Drillers' logs of selected wells—Continued**

Material	Thickness	Depth	Material	Thickness	Depth
<b>(A-12-1)21daa-1—Continued</b>					
Gravel; water (flow); iron content	28	180	Clay	6	756
Clay and gravel	24	204	Gravel, hard	4	760
Gravel; water	14	218	Clay and boulders	15	775
Clay and gravel	8	226	Gravel, hard	10	785
Conglomerate	25	251	Clay, gummy	3	788
Clay and gravel	21	272	Gravel, hard, cemented	27	815
Clay	12	284	Clay	5	820
Conglomerate	15	299	Silt and gravel, some hard		
Gravel; water	4	303	cemented, some loose	78	898
Clay and gravel	4	307	Clay, sand, and gravel,		
Conglomerate, hard	18	325	coarse, hard, sticky	80	978
Clay, blue and sticky	21	346			
Conglomerate, hard	54	400			
Gravel; water	23	423	<b>(A-14-1)23bbdd-1</b>		
Conglomerate, hard	7	430	<b>Log by J. S. Lee and Sons</b>		
Clay, gray and sticky	14	444	Altitude 4,600		
			Gravel and boulders	14	14
			Clay and gravel	6	20
			Clay, gravel, and boulders	45	65
			Clay, gray	37	102
			Clay and gravel	10	112
			Clay, gray	339	451
			Gravel	14	465
			Clay, gray	138	603
<b>(A-12-1)35bcc-1</b>					
<b>Log by Technical Services Inc.</b>					
Altitude 4,600			<b>(A-14-1)34add-1</b>		
Gravel fill	4	4	<b>Log by Wright Drilling Co.</b>		
Silt, muddy	6	10	Altitude 4,580		
Silt and gravel; little water	8	18	Clay	13	13
Clay, brown, and sand, gray	64	82	Boulders	52	65
Clay, silt and gravel	10	92	Brown mud and hard rock	49	284
Silt and gravel, hard	34	126	Clay with hard rock	6	290
Clay and gravel, brown and sandy	46	172	Clay, silt, and gravel	16	306
Silt	7	179	Sand and gravel; good water	16	322
Clay and gravel, sandy, some sediment; little water	32	211	Silt and gravel, hard; little water	17	339
Clay with hard rock	24	235	Clay and boulders, red	7	192
Brown mud and hard rock	49	284	Conglomerate and bedrock	35	185
Clay with hard rock	6	290	Clay, tan	13	118
Clay, silt, and gravel	16	306	Clay and gravel, gray	25	143
Sand and gravel; good water	16	322	Clay and gravel, rust colored	7	150
Silt and gravel, hard; little water	17	339	Conglomerate	35	185
Clay, silty, gummy	45	384	Clay and boulders, red	7	192
Broken rock	4	388	Conglomerate and bedrock	35	227
Clay, silt, and gravel, hard	28	416	Bedrock, fractured limestone	29	256
Clay and gravel, very hard; some water	38	454	Clay and gravel, light blue	18	274
Clay, silty, sandy and gummy	50	504	Clay and gravel, in alternating strata	21	295
Clay and gravel	6	510	Clay, light blue	32	327
Gravel, hard	14	524	Clay and gravel, blue	16	343
Clay, gummy and sandy	64	588	Bedrock, black limestone	30	373
Silt, gravel, and boulders, hard, some clay streak; some water	162	750	Clay and gravel	7	380

Table 2.—Drillers' logs of selected wells—Continued

Material	Thickness	Depth	Material	Thickness	Depth			
<b>(A-14-1)34add-1—Continued</b>								
Bedrock, fractured limestone			(B-10-1)3aab-1—Continued					
interbedded with soft blue limestone	2	437	Gravel; water	31	385			
Bedrock, fractured limestone	6	443	Clay, black	8	393			
Bedrock, soft and hard limestone interbedded	15	458	(B-11-1)14cds-1					
Bedrock, fractured limestone	46	504	Log by					
<b>(A-15-2)31cba-1</b>			Wright Drilling Co.					
Log by			Altitude 4,440					
R. G. Harding			Topsoil with clay	4	4			
Altitude 4,620			Clay, brown	18	22			
Boulders and soil	8	8	Clay, blue	42	64			
Boulders and gravel; small flow	25	33	Clay and gravel, blue	8	72			
Clay, sandy, gray; with little quartzite grit	52	85	Sand and gravel; water	27	99			
Conglomerate	7	92	Clay and gravel	69	168			
Clay, sandy	28	120	Sand and gravel; water	21	189			
Clay with small amount of gravel	30	150	Clay and gravel	4	193			
Clay, blue	7	157	Gravel; water	4	197			
Clay with small amount of gravel	16	173	Clay, gray	24	221			
Clay, gray	27	200	Clay and sand	15	236			
Clay, gray	20	220	Sand; water	3	239			
Clay with coarse sand	20	240	Gravel; water	3	242			
Clay, fine and sandy	11	251	Clay and gravel	21	263			
Clay and gravel, gray	24	275	Sand; water	3	266			
Clay, gray	75	350	Clay and gravel	5	271			
			Clay and sand	10	281			
			Sand and gravel; water	15	296			
			Clay and gravel; water	14	310			
<b>(B-10-1)3aab-1</b>								
Log by			<b>(B-12-1)19cca-1</b>					
Rex L. Frandsen			Log by					
Altitude 4,650			Ivan Bortz					
Topsoil	2	2	Altitude 4,785					
Sand, gray	45	47	Topsoil	6	6			
Clay, blue	26	73	Clay, blue	14	20			
Clay and sand, alternating	2	75	Clay, red and sandy	8	28			
Clay, dark blue	30	105	Clay, blue	10	38			
Clay and gravel, blue	8	113	Shale; water	1	39			
Gravel; water	4	117	Gravel, clay, and rocks; water	3	42			
Clay, blue	7	124	Clay, yellow; water	11	53			
Gravel; water	47	171	Sandstone, green; water	16	69			
Clay, brown	9	180	Rocks; water	2	71			
Gravel; water	56	236	Shale, rocks, and sandstone; water	129	200			
Clay, brown	12	248	Shale, blue clay in layers; water	5	205			
Gravel; water	8	256	Shale rock or sandstone; water	30	235			
Clay and gravel, brown	37	293	Rock, blue	20	255			
Gravel; water	28	321	Shale rock or sandstone and clay, blue	10	265			
Clay, brown	9	330						
Gravel; water	9	339						
Clay, brown	15	354						

Table 2.—Drillers' logs of selected wells—Continued

Material	Thickness	Depth	Material	Thickness	Depth			
<b>(B-13-1)16cbd-1</b>								
Log by			<b>15S 39E 16CAC1—Continued</b>					
T. J. Smith			Shale, soft and blue	80	160			
Altitude 4,845			Sand, fine; water	20	180			
(0 to 3 feet not reported)			Shale, soft and gray	20	200			
Clay, brown	30	33	Clay, sandy	20	220			
Sand, fine	7	40	Shale, hard and gray	20	240			
Clay and streaks of hardpan	20	60	Sand, fine; water	30	270			
Sand and gravel, fine; little water	20	80	Shale, gray; water	10	280			
Clay, blue	10	90	Shale	25	305			
Sand, black	1	91	Gravel and sand, coarse; water	5	310			
Clay	29	120						
Clay, blue	5	125						
Sand	25	150	<b>15S 40E 26DBD1</b>					
Clay, yellow	25	175	Log by					
Sand; small flow	25	200	W. E. Stevens and Sons					
Clay, yellow	5	205	Altitude 4,700					
Sand	5	210	Topsoil; gravel, and boulders; water	10	10			
			Clay and boulders, brown	5	15			
			Clay, blue	2	17			
			Shale with soft spots, blue; water	91	108			
			Shale, green and yellow; water	4	112			
			Shale, blue	20	132			
			Shale, green and yellow	3	135			
			Shale, blue	5	140			
			Shale, green	5	145			
			Shale, blue	8	153			
			Shale, green	7	160			
			Shale, blue	140	300			
<b>13S 38E 33BDU1</b>								
Log by			<b>16S 39E 18CDA1</b>					
Ivan Bortz			Log by					
Altitude 4,785			Charles B. Gardner					
Topsoil	6	6	Altitude 4,542.7					
Clay, blue	14	20	Topsoil	2	2			
Clay, red and sandy	8	28	Clay, gravelly	14	16			
Clay, blue	10	38	Sand	10	26			
Shale; water	1	39	Clay, blue	14	40			
Gravel, clay, and rocks; water	3	42	Clay, yellow	40	80			
Clay, yellow; water	11	53	Clay, blue	63	143			
Sandstone, green; water	16	69	Clay, gravelly	5	148			
Rocks; water	2	71	Clay, blue	2	150			
Shale, rocks, and sandstone; water	129	200	Clay, gravelly	6	156			
Shale, blue clay in layers; water	5	205	Clay, blue	48	204			
Shale rock or sandstone; water	30	235	Clay, gravelly; water	8	212			
Rock, blue	20	255	Clay, blue	26	238			
Shale rock or sandstone and clay, blue	10	265	Gravel; water	4	242			
			Clay, blue	10	252			
			Clay, blue	13	265			
			Clay, blue	6	271			
			Sand, very fine	23	273			
			Gravel; water	2	291			
			Clay, sandy and blue	35	291			

Table 2.—*Drillers' logs of selected wells—Continued*

Material	Thickness	Depth	Material	Thickness	Depth
<b>16S 39E 18CDA1—Continued</b>					
Gravel; water	6	297	16S 40E 08ACD1		
Clay, blue	28	325	Log by		
Gravel; water	2	327	W. E. Stevens and Sons		
Clay, blue	35	362	<b>Altitude 4,640</b>		
Gravel; water	2	364	Topsoil and gravel	3	3
Clay, gravelly; water	2	366	Gravel, cemented, and boulders	75	78
Clay, blue	20	386	Clay, brown and a little sand; water	34	112
Gravel; water	6	392	Sand, cemented, and stone; water	10	122
Clay, blue	2	394	Gravel, cemented; water	13	135
Gravel; water	3	397	Clay, sandy and some gravel	40	175
Clay, blue	19	416			
Gravel; water	1	417			
Clay, blue	9	426			
Gravel; water	9	435			
Clay, blue	27	462			

Table 3.—*Water levels in selected wells*

Location: See page 2 for an explanation of the numbering systems for hydrologic-data sites.

Altitude: Altitude of land surface, in feet above sea level.

Water levels are in feet below or above (-) land surface.

Date	Water level	Date	Water level	Date	Water level
(A-10-1)16dad-1		(A-10-1)16dad-1—Continued		(A-11-1)4das-2—Continued	
Altitude 4,820		MAR 01, 1990	10.29	JAN 25, 1970	14.11
AUG 05, 1969	6.21	APR 27	8.01	JAN 31	14.20
SEP 04	6.85	MAY 29	7.96	FEB 05	14.39
OCT 09	8.15	JUN 26	7.90	10	14.60
NOV 07	10.13	JUL 26	8.45	15	14.78
DEC 02	10.46	AUG 28	9.70	20	14.95
JAN 07, 1970	10.65	SEP 27	10.25	25	15.13
FEB 09	10.43	OCT 30	10.39	28	15.09
MAR 04	10.43	NOV 28	10.48	MAR 05	15.30
MAR 12, 1971	10.23	JAN 03, 1991	10.62	10	15.60
SEP 01	4.73	MAR 08	10.21	15	15.60
MAR 01, 1972	10.23			20	15.81
SEP 12	5.19	(A-11-1)4das-2		25	15.92
MAR 02, 1973	10.35	Altitude 4,500		SEP 03	15.77
SEP 13	4.80	AUG 05, 1969	13.04	MAR 01, 1971	15.50
MAR 13, 1974	9.53	10	14.71	SEP 01	9.46
SEP 11	5.20	15	15.00	MAR 01, 1972	13.08
MAR 11, 1975	10.26	25	16.03	SEP 12	8.40
OCT 15	7.73	31	16.37	MAR 02, 1973	13.79
MAR 15, 1976	10.09	SEP 05	15.74	SEP 13	12.36
SEP 13	6.29	10	15.40	MAR 13, 1974	15.79
MAR 08, 1977	10.48	15	13.80	SEP 11	11.31
SEP 28	10.06	20	13.30	MAR 12, 1975	14.10
MAR 08, 1978	10.53	25	13.07	OCT 15	9.16
SEP 18	5.83	30	12.31	MAR 15, 1976	13.65
MAR 12, 1979	9.88	OCT 05	11.98	SEP 13	10.11
SEP 17	5.86	10	11.68	MAR 08, 1977	14.29
MAR 10, 1980	10.11	15	11.62	SEP 28	19.42
SEP 17	5.76	20	11.72	MAR 08, 1978	19.54
MAR 02, 1981	10.49	25	11.60	SEP 18	15.93
SEP 17	8.28	31	11.64	MAR 12, 1979	17.30
MAR 08, 1982	10.16	NOV 05	11.50	SEP 17	16.48
SEP 08	6.07	10	11.69	MAR 10, 1980	17.79
MAR 02, 1983	10.22	15	11.69	SEP 17	13.90
AUG 31	4.89	20	11.99	MAR 02, 1981	16.25
MAR 02, 1984	10.22	25	12.20	SEP 17	21.66
SEP 07	4.12	30	12.28	MAR 08, 1982	19.93
MAR 04, 1985	10.52	DEC 05	12.49	SEP 08	10.63
SEP 19	7.52	10	12.57	MAR 02, 1983	12.85
MAR 10, 1986	6.64	15	12.71	AUG 31	6.28
SEP 29	7.76	20	12.81	MAR 02, 1984	10.21
MAR 02, 1987	10.14	25	12.91	SEP 05	4.60
SEP 15	9.59	31	13.30	MAR 04, 1985	10.07
MAR 03, 1988	10.40	JAN 05, 1970	13.59	SEP 19	12.51
SEP 26	9.25	10	13.57	MAR 10, 1986	15.58
MAR 08, 1989	10.25	15	13.75	SEP 29	7.72
SEP 19	8.09	20	13.97	MAR 03, 1987	14.08

**Table 3.—Water levels in selected wells—Continued**

Date	Water level	Date	Water level	Date	Water level
<b>(A-11-1)4daa-2—Continued</b>					
SEP 15, 1987	18.19	MAR 02, 1984	-37.3	MAR 12, 1979	-3.9
MAR 03, 1988	21.01	SEP 07	-41.0	SEP 17	-3.6
SEP 26	25.35	MAR 04, 1985	-37.8	MAR 10, 1980	-2.1
MAR 08, 1989	23.36	SEP 19	-36.2	SEP 17	-4.8
SEP 19	21.17	MAR 10, 1986	-37.2	MAR 17, 1981	-2.6
MAR 01, 1990	21.88	SEP 29	-35.5	MAR 08, 1982	-2.0
APR 27	21.66	MAR 05, 1987	-35.3	SEP 08	-8.4
MAY 29	21.97	SEP 15	-33.2	MAR 02, 1983	-7.2
JUN 26	24.52	MAR 03, 1988	-32.3	AUG 31	-10.8
JUL 25	25.10	SEP 26	-30.0	MAR 02, 1984	-7.6
AUG 20	26.44	MAR 15, 1989	-30.8	SEP 07	-11.8
25	27.30	SEP 19	-31.3	MAR 04, 1985	-7.7
28	27.70	MAR 01, 1990	-30.9	SEP 19	-5.6
31	27.73	APR 27	-32.1	MAR 10, 1986	-4.0
SEP 05	27.78	MAY 30	-29.9	SEP 29	-10.1
10	27.73	JUN 28	-29.0	MAR 05, 1987	-4.8
15	28.17	JUL 26	-28.0		
20	27.25	AUG 27	-27.3	<b>(A-11-1)21ddb-1</b>	
25	27.33	SEP 27	-28.7	Altitude 4,550	
27	28.17	OCT 29	-30.0	SEP 08, 1982	4.26
30	26.57	NOV 28	-30.7	MAR 01, 1983	5.00
OCT 05	26.30	JAN 17, 1991	-30.3	AUG 31	4.50
10	25.35	MAR 08	-30.2	MAR 02, 1984	5.32
15	25.04			SEP 07	4.18
20	24.60	<b>(A-11-1)18ddd-1</b>		MAR 04, 1985	5.40
25	24.29	Altitude 4,480		SEP 19	4.52
31	24.44	AUG 04, 1969	-5.7	MAR 10, 1986	4.86
NOV 05	23.76	SEP 04	-6.2	SEP 29	4.12
06	24.19	OCT 09	-7.3	MAR 03, 1987	5.49
10	23.83	NOV 07	-7.8	SEP 15	4.67
15	23.79	DEC 02	-7.0	MAR 03, 1988	5.51
20	23.41	JAN 07, 1970	-6.4	SEP 26	5.08
25	23.40	FEB 09	-5.5	MAR 08, 1989	4.65
27	23.74	MAR 04	-5.0	SEP 19	4.43
30	23.52	SEP 02	-6.1	MAR 01, 1990	5.17
DEC 05	23.58	MAR 01, 1971	-6.2	APR 27	5.16
10	23.60	SEP 01	-8.9	MAY 29	4.37
15	23.57	MAR 01, 1972	-6.8	JUN 26	4.79
20	23.59	SEP 12	-9.3	JUL 26	4.88
25	24.00	MAR 01, 1973	-6.3	AUG 28	5.28
31	24.19	SEP 13	-7.2	SEP 27	4.70
JAN 03, 1991	24.67	MAR 13, 1974	-7.2	OCT 29	5.24
05	24.19	SEP 11	-8.9	NOV 28	5.45
10	24.15	MAR 12, 1975	-6.6	JAN 03, 1991	6.00
15	24.15	OCT 15	-9.4	MAR 08	5.25
MAR 08	24.75	MAR 15, 1976	-6.7		
		SEP 13	-9.2	<b>(A-11-1)27cdc-1</b>	
<b>(A-11-1)18bas-1</b>					
Altitude 4,440		MAR 08, 1977	-5.7	Altitude 4,600	
MAR 02, 1983	-37.2	SEP 28	-2.0	AUG 05, 1969	116.23
AUG 31	-40.5	MAR 08, 1978	-2.5	SEP 04	116.12
		SEP 19	-2.1	OCT 09	115.13

**Table 3.—Water levels in selected wells—Continued**

Date	Water level	Date	Water level	Date	Water level
<b>(A-11-1)27cdc-1—Continued</b>					
NOV 07, 1969	114.99	NOV 28, 1990	126.26	SEP 18, 1989	16.46
DEC 02	115.76	JAN 03, 1991	126.38	MAR 01, 1990	21.28
JAN 07, 1970	116.95	MAR 08	126.78	APR 26	22.23
FEB 09	117.93			MAY 29	21.13
MAR 04	119.50	<b>(A-12-1)3bbb-1</b>		JUN 26	19.73
SEP 02	117.77	Altitude 4,510		JUL 25	23.36
MAR 15, 1971	113.99	AUG 04, 1969	3.85	AUG 27	26.08
SEP 01	116.04	SEP 04	6.90	SEP 26	25.76
MAR 01, 1972	116.29	OCT 08	5.27	OCT 31	23.94
SEP 12	119.94	NOV 06	6.84	NOV 27	23.69
MAR 02, 1973	116.70	DEC 03	9.29	JAN 03, 1991	24.34
SEP 13	114.25	JAN 06, 1970	12.15	MAR 08	25.37
MAR 13, 1974	117.80	FEB 10	14.30		
SEP 11	112.36	MAR 03	15.63	<b>(A-12-1)17das-1</b>	
MAR 11, 1975	116.09	SEP 02	8.30	Altitude 4,450	
OCT 15	111.78	MAR 01, 1971	14.48	APR 26, 1990	-13.5
MAR 15, 1976	116.10	SEP 01	.77	MAY 29	-13.3
SEP 13	111.89	MAR 01, 1972	13.79	JUN 28	-13.2
MAR 08, 1977	117.19	01	15.50	JUL 25	-12.9
SEP 28	122.01	SEP 12	4.67	AUG 28	-12.2
MAR 08, 1978	121.87	MAR 14, 1974	16.10	SEP 26	-12.4
SEP 19	118.55	SEP 13	2.63	OCT 31	-13.5
MAR 12, 1979	120.11	MAR 10, 1975	14.98	NOV 30	-13.7
SEP 17	119.02	OCT 14	2.31	JAN 17, 1991	-13.7
MAR 10, 1980	120.70	MAR 16, 1976	15.10	MAR 09	-13.5
SEP 17	117.23	SEP 20	2.93		
MAR 02, 1981	119.79	MAR 11, 1977	16.36	<b>(A-12-1)24add-1</b>	
SEP 17	137.82	OCT 12	18.28	Altitude 5,060	
MAR 08, 1982	123.32	MAR 09, 1978	21.75	JAN 04, 1991	65.22
SEP 08	111.80	SEP 20	7.05	18	65.36
MAR 02, 1983	114.36	MAR 13, 1979	18.23	APR 02, 1991	64.57
AUG 31	118.20	SEP 20	12.75		
MAR 02, 1984	116.78	MAR 11, 1980	18.87	<b>(A-12-1)29cab-1</b>	
SEP 07	107.40	SEP 18	5.37	Altitude 4,440	
MAR 04, 1985	113.54	MAR 04, 1981	17.73	AUG 25, 1969	-17.5
SEP 19	120.64	SEP 22	20.40	31	-17.4
MAR 14, 1986	120.40	MAR 08, 1982	20.35	SEP 05	-17.8
SEP 30	112.08	SEP 08	5.24	10	-18.0
MAR 03, 1987	117.74	MAR 03, 1983	18.40	15	-18.2
SEP 15	120.63	SEP 02	5.54	20	-18.5
MAR 03, 1988	123.65	MAR 05, 1984	16.66	25	-18.6
SEP 26	130.80	SEP 11	3.83	30	-18.7
MAR 08, 1989	124.98	MAR 05, 1985	16.76	OCT 05	-18.9
SEP 19	124.63	SEP 05	4.77	10	-19.0
MAR 01, 1990	124.72	MAR 11, 1986	15.50	15	-19.0
MAY 29	125.62	SEP 29	2.51	20	-19.0
JUN 26	126.20	MAR 04, 1987	15.35	25	-19.0
JUL 26	128.90	SEP 15	14.41	31	-18.9
AUG 28	129.69	MAR 04, 1988	20.18	NOV 05	-19.6
SEP 27	129.18	SEP 26	26.68	10	-19.7
OCT 30	126.70	MAR 15, 1989	23.30	15	-19.5

Table 3.—Water levels in selected wells—Continued

Date	Water level	Date	Water level	Date	Water level
<b>(A-12-1)29cab-1—Continued</b>					
NOV 20, 1969	-19.5	AUG 05, 1970	-18.2	AUG 05, 1971	-19.3
25	-19.5	10	-18.3	10	-19.2
30	-19.4	15	-18.3	15	-19.1
DEC 05	-19.4	20	-18.5	20	-19.9
10	-19.4	25	-17.6	25	-20.2
15	-19.3	31	-17.6	31	-20.5
20	-19.0	SEP 05	-17.8	SEP 05	-20.5
25	-19.0	10	-18.6	10	-20.2
31	-18.9	15	-18.7	15	-21.0
JAN 05, 1970	-18.9	20	-18.7	20	-20.8
10	-18.8	25	-18.6	25	-20.8
15	-18.8	30	-19.1	30	-20.9
20	-18.8	OCT 05	-19.2	OCT 05	-20.5
25	-18.8	10	-18.7	10	-20.5
31	-18.8	15	-18.8	15	-20.8
FEB 05	-18.7	20	-18.5	20	-20.7
10	-18.5	25	-18.3	25	-20.5
15	-18.4	31	-18.6	31	-20.4
20	-18.6	NOV 05	-18.7	NOV 05	-20.4
25	-18.5	10	-18.5	10	-20.5
28	-18.5	15	-18.5	15	-19.8
MAR 05	-18.4	20	-18.7	20	-19.8
10	-18.4	25	-18.7	25	-19.8
15	-18.4	30	-18.5	30	-19.8
20	-18.3	DEC 05	-18.3	DEC 05	-19.7
25	-18.2	10	-18.2	10	-19.7
31	-18.2	15	-18.0	15	-19.7
APR 05	-18.2	20	-17.9	20	-19.5
10	-18.2	25	-17.9	25	-19.8
15	-18.0	31	-18.2	31	-19.5
20	-18.0	JAN 31, 1971	-18.0	JAN 05, 1972	-19.2
25	-18.0	FEB 05	-17.9	10	-19.5
30	-18.0	10	-17.9	15	-19.3
MAY 05	-17.9	15	-17.8	20	-19.3
10	-17.8	20	-17.7	25	-19.5
15	-18.2	25	-17.6	31	-19.3
20	-18.3	28	-17.6	FEB 05	-19.2
25	-18.0	MAR 05	-18.0	10	-19.0
31	-17.7	10	-18.0	15	-19.1
JUN 05	-18.0	15	-17.9	20	-18.8
10	-17.3	20	-17.8	25	-19.0
15	-17.0	25	-17.8	29	-18.8
20	-17.1	31	-17.8	MAR 05	-18.7
25	-17.1	APR 25	-18.4	10	-19.1
30	-17.5	30	-18.5	15	-18.9
JUL 05	-17.1	MAY 05	-18.1	20	-18.7
10	-17.0	31	-18.5	25	-19.0
15	-17.2	JUN 30	-18.6	31	-19.0
20	-17.3	JUL 20	-19.5	APR 05	-18.8
25	-17.6	25	-19.9	10	-18.8
31	-18.3	31	-18.7	15	-18.8

Table 3.—Water levels in selected wells—Continued

Date	Water level	Date	Water level	Date	Water level
<b>(A-12-1)29cab-1—Continued</b>					
APR 20, 1972	-18.6	JAN 05, 1973	-19.6	SEP 20, 1973	-19.8
25	-18.8	10	-19.5	25	-19.0
30	-18.7	15	-19.5	30	-18.9
MAY 05	-19.0	20	-19.5	OCT 05	-19.4
10	-18.8	25	-19.5	10	-19.0
15	-18.6	31	-19.3	15	-19.2
20	-18.4	FEB 05	-19.2	20	-19.2
25	-18.5	10	-19.1	25	-19.1
31	-18.9	15	-18.8	31	-19.1
JUN 05	-18.6	20	-18.8	NOV 05	-18.9
10	-19.0	25	-18.8	10	-18.7
15	-19.1	28	-18.8	15	-18.5
20	-19.2	MAR 05	-18.8	20	-18.2
25	-19.5	10	-18.0	25	-17.9
30	-19.9	15	-17.7	30	-18.0
JUL 05	-19.5	20	-17.7	DEC 05	-18.1
10	-19.2	25	-17.6	10	-18.4
15	-19.3	31	-17.4	15	-18.0
20	-19.8	APR 05	-18.0	20	-18.2
25	-19.7	10	-17.9	25	-18.2
31	-19.8	15	-17.6	31	-18.0
AUG 05	-19.9	20	-17.4	JAN 05, 1974	-18.0
10	-20.0	25	-17.9	10	-18.0
15	-20.1	30	-17.5	15	-18.0
20	-20.0	MAY 05	-17.8	20	-18.0
25	-20.5	10	-18.0	25	-18.0
31	-20.5	15	-17.7	31	-18.0
SEP 05	-20.2	20	-17.0	FEB 05	-18.0
10	-20.7	25	-17.3	10	-17.9
15	-21.0	31	-17.8	15	-17.8
20	-21.0	JUN 05	-17.9	20	-17.5
25	-20.9	10	-17.5	25	-17.6
30	-20.6	15	-17.5	28	-17.5
OCT 05	-20.7	20	-17.5	MAR 05	-17.5
10	-20.8	25	-17.6	10	-17.5
15	-20.5	30	-17.6	15	-17.4
20	-20.6	JUL 05	-17.7	20	-17.6
25	-20.7	10	-17.8	25	-17.6
31	-20.8	15	-17.9	31	-17.5
NOV 05	-20.8	20	-18.0	APR 05	-17.6
10	-20.8	25	-18.2	10	-17.5
15	-20.8	31	-18.5	15	-17.5
20	-20.8	AUG 05	-18.0	20	-17.8
25	-20.8	10	-18.5	25	-18.0
30	-20.8	15	-18.4	30	-18.0
DEC 05	-20.4	20	-18.0	MAY 05	-17.7
10	-20.0	25	-18.3	10	-16.7
15	-19.8	31	-18.7	15	-17.2
20	-19.8	SEP 05	-18.9	20	-17.1
25	-19.8	10	-19.1	25	-17.3
31	-19.8	15	-19.5	31	-17.8

Table 3.—Water levels in selected wells—Continued

Date	Water level	Date	Water level	Date	Water level
<b>(A-12-1)29cab-1—Continued</b>					
JUN 05, 1974	-18.0	FEB 20, 1975	-19.3	NOV 05, 1975	-21.0
10	-18.0	25	-18.9	10	-21.0
15	-18.0	28	-18.8	15	-21.0
20	-18.0	MAR 05	-18.8	20	-21.0
25	-18.0	10	-18.5	25	-20.9
30	-18.0	15	-18.4	30	-20.9
JUL 05	-19.0	20	-18.5	DEC 05	-20.8
10	-18.5	25	-18.6	10	-20.4
15	-18.0	31	-18.0	15	-20.5
20	-18.5	APR 05	-18.2	20	-20.3
25	-18.8	10	-18.1	25	-20.4
31	-19.2	15	-18.1	31	-20.7
AUG 05	-19.0	20	-17.9	JAN 05, 1976	-20.5
10	-19.0	25	-21.7	10	-20.2
15	-20.0	30	-18.3	15	-20.2
20	-19.5	MAY 05	-18.0	20	-20.5
25	-18.5	10	-18.0	25	-18.5
31	-18.7	15	-18.6	31	-18.5
SEP 05	-19.6	20	-18.4	FEB 05	-19.8
10	-19.4	25	-18.0	10	-19.5
15	-19.5	31	-18.0	15	-19.3
20	-19.6	JUN 05	-18.5	20	-19.4
25	-20.0	10	-18.8	25	-19.8
30	-19.9	15	-18.3	29	-19.9
OCT 05	-19.8	20	-18.7	MAR 05	-19.6
10	-20.0	25	-19.0	10	-19.7
15	-20.2	30	-19.0	15	-19.3
20	-20.3	JUL 05	-18.7	20	-19.0
25	-20.2	10	-18.5	25	-19.0
31	-20.0	15	-19.0	31	-19.1
NOV 05	-19.9	20	-18.3	APR 05	-19.0
10	-20.0	25	-19.0	10	-19.0
15	-20.1	31	-19.7	15	-19.0
20	-20.2	AUG 05	-19.2	20	-19.0
25	-20.2	10	-19.0	23	-19.0
30	-19.9	15	-19.5	25	-19.0
DEC 05	-19.7	20	-19.3	30	-19.2
10	-19.6	25	-19.4	MAY 05	-19.2
15	-19.2	31	-19.5	10	-19.0
20	-19.6	SEP 05	-19.8	15	-18.5
25	-19.7	10	-19.3	20	-18.7
31	-19.3	15	-20.2	25	-18.9
JAN 05, 1975	-19.0	20	-20.3	31	-18.5
10	-19.1	25	-20.5	JUN 05	-18.5
15	-19.3	30	-20.5	10	-18.5
20	-19.2	OCT 05	-20.5	15	-19.4
25	-19.1	10	-20.7	20	-19.5
31	-19.2	15	-20.8	25	-19.4
FEB 05	-19.6	20	-21.0	JUL 05	-20.0
10	-19.4	25	-20.7	JUL 05	-18.5
15	-19.2	31	-20.9	10	-18.8

Table 3.—Water levels in selected wells—Continued

Date	Water level	Date	Water level	Date	Water level
<b>(A-12-1)29cab-1—Continued</b>					
JUL 15, 1976	-19.4	MAR 31, 1977	-19.0	DEC 15, 1977	-17.6
20	-19.6	APR 05	-18.5	20	-17.5
25	-19.2	10	-18.2	25	-17.5
31	-19.5	15	-18.2	31	-17.5
AUG 05	-20.2	20	-18.6	JAN 05, 1978	-18.3
10	-20.1	25	-18.1	10	-17.5
15	-20.0	30	-18.2	15	-17.3
20	-20.6	MAY 05	-18.5	20	-17.5
25	-20.5	10	-17.9	25	-17.4
31	-20.5	15	-17.8	31	-17.4
SEP 05	-20.5	20	-18.1	FEB 05	-18.3
10	-20.8	25	-18.2	10	-17.4
15	-21.0	31	-18.8	15	-17.5
20	-20.9	JUN 05	-18.0	20	-17.3
25	-20.6	10	-18.0	25	-17.2
30	-21.0	15	-18.0	28	-17.4
OCT 05	-21.0	20	-17.5	MAR 05	-17.0
10	-21.0	25	-16.6	10	-17.0
15	-21.1	30	-16.5	15	-17.5
20	-21.0	JUL 05	-16.5	20	-17.2
25	-21.0	10	-15.9	25	-17.2
31	-20.8	15	-15.8	31	-17.5
NOV 05	-20.9	20	-15.5	APR 05	-17.3
10	-21.0	25	-15.6	10	-17.3
15	-21.0	31	-15.5	15	-17.4
20	-20.5	AUG 05	-15.3	20	-17.5
25	-20.7	10	-15.2	25	-17.5
30	-20.5	15	-15.0	30	-17.1
DEC 05	-20.3	20	-16.3	MAY 05	-17.4
10	-20.3	25	-16.7	10	-17.5
15	-20.3	31	-17.4	15	-17.4
20	-20.4	SEP 05	-17.0	20	-17.1
25	-20.2	10	-17.0	25	-17.2
31	-20.1	15	-17.0	31	-17.3
JAN 05, 1977	-19.5	20	-17.4	JUN 05	-17.1
10	-19.6	25	-17.7	10	-16.8
15	-19.1	30	-17.5	15	-16.8
20	-19.1	OCT 05	-18.0	20	-17.0
25	-19.7	10	-17.8	25	-16.8
31	-20.3	15	-17.7	30	-16.6
FEB 05	-19.7	20	-17.7	JUL 05	-16.5
10	-19.7	25	-17.9	10	-17.0
15	-19.3	31	-17.6	15	-17.0
20	-19.4	NOV 05	-17.7	20	-17.0
25	-19.3	10	-17.9	25	-16.8
31	-19.3	15	-17.9	31	-17.3
MAR 05	-19.3	20	-17.5	AUG 05	-16.7
10	-19.0	25	-17.7	10	-16.8
15	-19.0	30	-17.9	15	-18.0
20	-18.9	DEC 05	-17.5	20	-18.4
25	-18.4	10	-17.4	25	-18.0

Table 3.—Water levels in selected wells—Continued

Date	Water level	Date	Water level	Date	Water level
<b>(A-12-1)29cab-1—Continued</b>					
AUG 31, 1978	-17.4	MAY 15, 1979	-18.5	JAN 31, 1980	-19.0
SEP 05	-17.3	20	-17.0	FEB 05	-18.9
10	-17.5	25	-17.5	10	-19.0
15	-18.5	31	-17.5	15	-18.1
20	-18.5	JUN 05	-17.3	20	-18.7
25	-19.0	10	-17.5	25	-18.4
30	-19.0	15	-17.0	29	-18.4
OCT 05	-19.3	20	-17.6	MAR 05	-18.3
10	-19.4	25	-17.6	10	-18.5
15	-19.4	30	-17.4	15	-18.3
20	-19.3	JUL 05	-16.9	20	-18.3
25	-19.5	10	-16.8	25	-18.0
31	-19.5	15	-17.7	31	-18.2
NOV 05	-19.3	20	-18.0	APR 05	-18.1
10	-19.3	25	-18.1	10	-18.1
15	-20.0	31	-17.9	15	-18.6
20	-19.6	AUG 05	-18.3	20	-18.6
25	-19.5	10	-18.0	25	-18.3
30	-19.0	15	-17.8	30	-18.2
DEC 05	-19.2	20	-18.0	MAY 05	-18.3
10	-19.6	25	-17.6	10	-17.9
15	-19.2	31	-18.0	15	-18.5
20	-19.0	SEP 05	-18.7	20	-18.4
25	-19.3	10	-18.2	25	-18.4
31	-19.0	15	-18.4	31	-18.6
JAN 05, 1979	-18.9	20	-18.4	JUN 05	-18.9
10	-18.6	25	-18.5	10	-18.8
15	-18.5	30	-19.0	15	-18.2
20	-18.5	OCT 05	-19.4	20	-18.0
25	-18.5	10	-19.4	25	-18.0
31	-18.5	15	-19.3	30	-18.0
FEB 05	-18.8	20	-19.2	JUL 05	-18.4
10	-18.5	25	-19.5	10	-18.5
15	-18.5	31	-19.5	15	-18.4
20	-18.5	NOV 05	-19.3	20	-19.4
25	-18.4	10	-19.6	25	-18.0
28	-18.5	15	-19.6	31	-17.3
MAR 05	-18.5	20	-19.3	AUG 05	-18.5
10	-18.5	25	-19.3	10	-18.5
15	-18.4	30	-19.4	15	-18.3
20	-18.5	DEC 05	-19.2	20	-19.6
25	-18.3	10	-19.2	25	-19.4
31	-18.1	15	-19.3	31	-19.7
APR 05	-18.3	20	-19.5	SEP 05	-19.7
10	-18.0	25	-19.0	10	-19.6
15	-18.2	31	-18.7	15	-20.3
20	-18.5	JAN 05, 1980	-19.2	20	-20.3
25	-18.0	10	-19.0	25	-20.4
30	-18.0	15	-19.0	30	-20.5
MAY 05	-18.0	20	-18.9	OCT 05	-20.5
10	-18.0	25	-19.2	10	-20.7

Table 3.—Water levels in selected wells—Continued

Date	Water level	Date	Water level	Date	Water level
<b>(A-12-1)29cab-1—Continued</b>					
OCT 15, 1980	-20.5	JUN 30, 1981	-18.6	MAR 15, 1982	-17.2
20	-20.4	JUL 05	-17.5	20	-17.1
25	-20.3	10	-17.7	25	-17.4
31	-20.4	15	-18.1	31	-17.3
NOV 05	-20.2	20	-17.5	APR 05	-17.4
10	-20.5	25	-17.6	10	-17.0
15	-19.9	31	-17.4	15	-17.6
20	-20.0	10	-17.5	20	-17.6
25	-20.1	10	-17.0	25	-17.9
30	-20.2	15	-17.5	30	-17.9
DEC 05	-20.1	20	-18.9	MAY 05	-18.0
10	-20.1	25	-17.3	10	-18.1
15	-19.8	31	-17.2	15	-18.3
20	-19.7	SEP 05	-17.4	20	-18.0
25	-19.7	10	-17.2	25	-18.2
31	-19.8	15	-17.4	31	-18.4
JAN 05, 1981	-19.9	20	-17.2	JUN 05	-18.4
10	-19.5	25	-17.5	10	-18.4
15	-19.3	30	-18.1	15	-18.6
20	-19.5	OCT 05	-18.4	20	-18.1
25	-19.4	10	-18.4	25	-18.0
31	-19.4	15	-18.5	30	-18.5
FEB 05	-19.8	20	-18.7	JUL 05	-18.9
10	-19.7	25	-18.8	10	-18.5
15	-19.2	31	-18.6	15	-19.0
20	-19.2	NOV 05	-16.9	20	-18.6
25	-19.2	10	-18.8	25	-18.9
28	-19.5	15	-18.9	31	-20.0
MAR 05	-19.3	20	-18.4	AUG 05	-20.0
10	-19.4	25	-18.5	10	-19.0
15	-19.3	30	-18.3	15	-19.5
20	-19.3	DEC 05	-18.4	20	-19.4
25	-18.8	10	-18.4	25	-19.5
31	-18.7	15	-18.5	31	-20.9
APR 05	-19.0	20	-18.5	SEP 05	-21.0
10	-19.0	25	-18.5	10	-21.0
15	-19.0	31	-19.4	15	-21.4
20	-18.8	JAN 05, 1982	-17.8	20	-21.5
25	-18.7	10	-17.5	25	-21.6
30	-18.7	15	-17.4	30	-21.4
MAY 05	-18.4	20	-17.6	OCT 05	-21.5
10	-18.8	25	-17.2	10	-21.5
15	-18.1	31	-17.2	15	-21.6
20	-18.3	FEB 05	-17.2	20	-21.8
25	-18.5	10	-16.6	25	-21.5
31	-18.5	15	-16.5	31	-21.3
JUN 05	-18.4	20	-17.0	NOV 05	-21.2
10	-18.5	25	-17.1	10	-21.0
15	-18.7	28	-17.3	15	-21.0
20	-18.3	MAR 05	-17.4	20	-21.0
25	-18.2	10	-17.2	25	-20.9

Table 3.—Water levels in selected wells—Continued

Date	Water level	Date	Water level	Date	Water level
<b>(A-12-1)29cab-1—Continued</b>					
NOV 30, 1982	-20.8	AUG 15, 1983	-22.9	APR 30, 1984	-20.6
DEC 05	-20.7	20	-22.4	MAY 05	-20.6
10	-20.8	25	-22.7	10	-20.8
15	-20.8	31	-23.0	15	-20.8
20	-20.4	SEP 05	-23.0	20	-21.0
25	-20.4	10	-23.6	25	-21.2
31	-20.3	15	-23.6	31	-20.5
JAN 05, 1983	-20.4	20	-23.3	JUN 05	-20.8
10	-20.2	25	-23.0	10	-21.1
15	-20.2	30	-23.1	15	-22.4
20	-20.2	OCT 05	-23.0	20	-22.0
25	-20.1	10	-23.0	25	-22.0
31	-20.0	15	-23.1	30	-21.0
FEB 05	-20.2	20	-23.4	JUL 05	-21.8
10	-19.9	25	-23.3	10	-22.1
15	-20.0	31	-22.7	15	-22.4
20	-19.8	NOV 05	-22.9	20	-21.8
25	-20.0	10	-22.6	25	-22.3
28	-19.8	15	-22.7	31	-23.2
MAR 05	-19.5	20	-22.4	AUG 05	-23.4
10	-19.6	25	-22.5	10	-23.1
15	-19.7	30	-22.3	15	-22.5
20	-19.7	DEC 05	-22.5	20	-23.2
25	-19.6	10	-22.0	25	-22.9
31	-19.6	15	-22.0	31	-23.4
APR 05	-19.7	20	-21.7	SEP 05	-23.6
10	-19.4	25	-21.6	10	-23.6
15	-19.8	31	-21.3	15	-23.5
20	-19.5	JAN 05, 1984	-21.3	20	-23.5
25	-19.4	10	-21.4	25	-23.6
30	-19.4	15	-21.2	29	-23.5
MAY 05	-19.6	20	-21.5	30	-23.5
10	-19.6	25	-21.0	OCT 23	-23.7
15	-19.6	31	-21.0	NOV 29	-22.9
20	-19.7	FEB 05	-21.3	DEC 28	-22.2
25	-20.1	10	-21.1	JAN 29, 1985	-21.4
31	-20.1	15	-20.9	FEB 28	-20.9
JUN 05	-20.1	20	-20.9	MAR 28	-20.4
10	-20.8	25	-20.7	APR 28	-20.0
15	-20.7	29	-20.8	JUN 02	-19.8
20	-20.7	MAR 05	-21.3	26	-19.3
25	-20.7	10	-20.5	JUL 26	-19.1
30	-20.7	15	-21.0	AUG 30	-18.8
JUL 05	-21.3	20	-21.0	SEP 19	-20.1
10	-20.8	25	-20.4	OCT 21	-20.4
15	-21.3	31	-20.1	NOV 19	-19.7
20	-21.0	APR 05	-20.4	DEC 20	-1° 2
25	-21.5	10	-20.2	JAN 30, 1986	-18.9
31	-21.8	15	-20.5	FEB 27	-18.7
AUG 05	-21.9	20	-20.5	MAR 28	-18.8
10	-22.0	25	-20.6	APR 25	-19.3

Table 3.—Water levels in selected wells—Continued

Date	Water level	Date	Water level	Date	Water level
<b>(A-12-1)29cab-1—Continued</b>					
MAY 30, 1986	-19.3	MAR 06, 1991	-12.3	<b>(A-12-1)29cab-1—Continued</b>	
JUN 27	-19.3	MAR 06, 1991	-12.3	MAR 13, 1974	34.91
JUL 25	-20.4	<b>(A-12-1)31dab-2</b>		SEP 11	32.14
AUG 29	-18.0	Altitude 4,430		MAR 12, 1975	33.24
SEP 29	-19.0	MAR 09, 1977	-38.4	OCT 15	29.78
JAN 29, 1987	-17.2	SEP 29	-36.2	MAR 15	32.73
FEB 26	-16.8	MAR 09, 1978	-36.0	MAR 08, 1977	33.16
MAR 30	-16.2	SEP 20	-38.1	OCT 04	39.17
APR 29	-15.3	MAR 12, 1979	-37.1	MAR 08, 1978	38.56
MAY 29	-15.9	SEP 20	-34.5	SEP 18	36.71
JUN 29	-15.0	MAR 10, 1980	-36.4	MAR 12, 1979	36.15
JUL 31	-15.3	SEP 17	-39.3	SEP 17	36.66
AUG 26	-15.2	MAR 02, 1981	-38.1	MAR 10, 1980	36.66
SEP 30	-15.1	SEP 17	-33.6	SEP 17	33.51
OCT 30	-15.2	MAR 08, 1982	-35.6	MAR 02, 1981	34.55
NOV 30	-14.9	SEP 08	-42.8	SEP 17	40.14
DEC 29	-14.9	MAR 02, 1983	-39.3	MAR 08, 1982	36.26
JAN 29, 1988	-14.3	AUG 31	-47.1	SEP 08	31.63
FEB 26	-14.2	MAR 02, 1984	-39.8	MAR 02, 1983	31.35
MAR 31	-14.1	SEP 07	-43.6	AUG 31	27.98
APR 28	-14.2	MAR 04, 1985	-39.8	MAR 02, 1984	29.12
MAY 31	-13.8	SEP 19	-38.2	SEP 07	23.98
JUL 28	-11.3	MAR 11, 1986	-37.7	MAR 04, 1985	28.91
AUG 29	-11.5	MAR 10, 1987	-37.8	SEP 19	31.08
OCT 05	-12.4	MAR 03, 1988	-37.8	MAR 10, 1986	33.68
28	-12.6	SEP 23	-33.8	SEP 29	26.93
DEC 29	-13.4	MAR 15, 1989	-32.4	MAR 05, 1987	31.48
FEB 22, 1989	-12.6	SEP 19	-35.5	MAR 08, 1988	38.18
MAR 31	-12.9	MAR 01, 1990	-33.2	SEP 23	42.65
APR 28	-13.0	APR 27	-32.6	MAR 08, 1989	40.75
MAY 26	-13.0	OCT 29	-31.0	SEP 19	40.36
JUN 29	-12.6	NOV 28	-28.6	MAR 01, 1990	39.61
JUL 28	-12.5	JAN 16, 1991	-26.0	JUN 26	40.68
AUG 31	-12.5	MAR 07	-26.8	JUL 26	43.19
SEP 28	-13.7	AUG 28	-44.75	SEP 27	46.00
OCT 30	-13.7	(A-12-1)34ccc-1		OCT 29	44.56
NOV 29	-13.9	Altitude 4,530		NOV 29	43.56
DEC 29	-13.7	AUG 05, 1969	33.31	JAN 04, 1991	43.55
FEB 08, 1990	-13.4	SEP 04	34.38	MAR 08	44.09
28	-13.0	OCT 09	34.18		
APR 27	-13.0	NOV 07	31.56		
MAY 29	-13.0	DEC 02	31.84	<b>(A-13-1)29adc-1</b>	
JUN 25	-12.9	JAN 07, 1970	32.94	Altitude 4,490	
29	-12.4	FEB 09	33.68	AUG 04, 1969	-3.4
JUL 25	-12.2	MAR 04	34.46	SEP 04	-0.3
AUG 28	-11.0	SEP 02	34.48	OCT 08	-2.6
SEP 27	-10.8	MAR 01, 1971	34.66	NOV 06	-1.7
OCT 29	-12.7	MAR 01, 1972	32.07	DEC 03	.19
NOV 28	-12.8	SEP 11	28.78	JAN 06, 1970	2.40
DEC 20	-13.4	MAR 02, 1973	32.74	FEB 10	4.11
JAN 16, 1991	-12.6	SEP 13	32.63	MAR 03	5.26

Table 3.—Water levels in selected wells—Continued

Date	Water level	Date	Water level	Date	Water level
<b>(A-13-1)29adb-1—Continued</b>					
SEP 02, 1970	1.08	JAN 06, 1970	4.90	MAR 04, 1987	58.95
MAR 01, 1971	4.30	MAR 03, 1970	6.00	SEP 16	63.19
SEP 01	-4.5	MAR 12	4.20	MAR 04, 1988	70.10
MAR 01, 1972	3.84	SEP 01, 1971	4.97	07, 1989	60.34
SEP 12	-6.8	MAR 01, 1972	1.94		
MAR 01, 1973	4.33	SEP 12	6.09	<b>(A-14-1)4cc-1</b>	
SEP 12	-2.9	MAR 01, 1973	5.54	Altitude 4,530	
MAR 14, 1974	4.99	SEP 12	4.74	SEP 21, 1979	72.85
SEP 13	-4.3	MAR 13, 1974	3.46	MAR 11, 1980	71.59
MAR 10, 1975	4.73	SEP 13	5.84	SEP 18	68.06
OCT 14	-4.3	MAR 10, 1975	7.30	MAR 04, 1981	72.17
MAR 16, 1976	4.74	OCT 14	5.31	MAR 08, 1982	70.73
SEP 15	-3.5	MAR 16, 1976	4.70	MAR 03, 1983	68.52
MAR 09, 1977	5.51	SEP 15	5.41	SEP 02	58.87
SEP 29	0.29	MAR 09, 1977	5.39	MAR 05, 1984	66.25
MAR 09, 1978	10.34	SEP 29	5.76	SEP 11	58.24
SEP 20	-1.5	MAR 09, 1978	3.24	MAR 05, 1985	67.97
MAR 13, 1979	7.20	SEP 19	5.64	SEP 05	69.43
SEP 20	4.50	MAR 13, 1979	4.76	MAR 10, 1986	64.87
MAR 11, 1980	8.15	SEP 20	5.73	SEP 23	64.22
SEP 18	-2.1	MAR 11, 1980	1.99	MAR 04, 1987	67.93
MAR 04, 1981	7.29	SEP 18	4.35	MAR 04, 1985	72.13
SEP 22	5.14	MAR 04, 1981	8.90	SEP 23	81.64
MAR 08, 1982	8.95	SEP 22	4.78	MAR 07, 1989	74.30
SEP 09	-2.5	MAR 08, 1982	6.13	SEP 18	72.84
MAR 03, 1983	4.80	SEP 09	4.96	MAR 01, 1990	73.12
SEP 02	-4.0	SEP 02, 1983	3.90	APR 26	68.97
SEP 11, 1984	-7.0	SEP 11, 1984	4.48	MAY 29	67.84
SEP 05, 1985	-2.5	SEP 05, 1985	3.59	JUL 25	71.61
SEP 29, 1986	-5.4	SEP 23, 1986	5.85	SEP 26	75.47
SEP 15, 1987	4.57			NOV 01	75.45
SEP 26, 1988	9.94	<b>(A-14-1)111db-1</b>		27	74.91
SEP 18, 1989	5.73	Altitude 4,530		JAN 05, 1991	74.98
APR 26, 1990	9.85	MAR 20, 1978	63.73	MAR 08	73.48
MAY 30	9.00	SEP 19	60.35		
JUN 26	7.93	MAR 13, 1979	63.63	<b>(A-14-1)22bad-1</b>	
JUL 25	12.70	SEP 20	63.65	Altitude 4,466	
AUG 28	15.89	MAR 11, 1980	63.20	AUG 04, 1969	-15.5
SEP 27	14.30	SEP 18	59.08	SEP 04	-10.9
OCT 29	12.03	MAR 04, 1981	62.67	OCT 08	-7.4
NOV 27	11.67	SEP 22	61.88	NOV 06	-5.1
JAN 03, 1991	12.34	MAR 08, 1982	61.90	DEC 03	-3.9
MAR 08	12.53	SEP 09	56.70	JAN 06, 1970	-2.8
		MAR 03, 1983	59.18	FEB 10	-2.6
<b>(A-14-1)6ccc-1</b>					
Altitude 4,505		SEP 02	49.90	MAR 03	-2.5
AUG 04, 1969	4.77	MAR 05, 1984	56.76	SEP 02	-10.3
SEP 04, 1969	4.80	MAR 05, 1985	57.70	SEP 01	-16.3
OCT 08	5.00	SEP 05	61.27	MAR 01, 1972	-7.3
NOV 06	5.62	MAR 10, 1986	57.24	SEP 12	-12.0
DEC 03	4.85	SEP 23	54.80	MAR 01, 1973	-6.6

Table 3.—Water levels in selected wells—Continued

Date	Water level	Date	Water level	Date	Water level
<b>(A-14-1)22bad-1—Continued</b>					
SEP 12, 1973	-9.8	JAN 06, 1970	15.90	JAN 03, 1991	20.40
MAR 13, 1974	-7.4	FEB 10	13.99	MAR 08	20.20
SEP 13	-10.4	MAR 03	12.75		
MAR 10, 1975	-3.6	SEP 02	11.56	<b>(B-10-1)111db-1</b>	
OCT 14	-9.3	MAR 01, 1971	10.99	Altitude 4,680	
SEP 15, 1976	-9.8	SEP 01	6.27	APR 25, 1990	15.89
MAR 09, 1977	-3.5	MAR 01, 1972	9.14	MAY 29	16.30
SEP 28	-2.7	SEP 12	10.29	JUN 26	16.92
MAR 09, 1978	-2.5	MAR 01, 1973	17.43	AUG 27	17.48
SEP 19	-4.6	SEP 12	9.43	SEP 25	18.16
MAR 13, 1979	-1.0	MAR 13, 1974	8.98	OCT 29	19.22
SEP 20	-1.0	SEP 13	8.97	NOV 26	1C 93
MAR 11, 1980	-2.2	MAR 10, 1975	12.52	JAN 03, 1991	20.56
SEP 18	-4.3	OCT 14	11.45	MAR 06	20.75
MAR 17, 1981	-2.0	MAR 16, 1976	11.45		
SEP 22	-4.0	SEP 15	17.18	<b>(B-11-1)9cd-1</b>	
MAR 08, 1982	-4.3	MAR 09, 1977	29.80	Altitude 4,420	
SEP 09	-4.5	SEP 28	23.43	AUG 05, 1969	-5.4
MAR 03, 1983	-3.8	MAR 09, 1978	14.91	SEP 04	-5.1
SEP 02	-8.0	SEP 19	15.23	OCT 09	-5.2
MAR 05, 1984	-6.1	MAR 13, 1979	26.70	NOV 07	-5.2
SEP 11	-7.6	SEP 20	17.42	DEC 02	-5.0
MAR 05, 1985	-4.4	MAR 11, 1980	14.66	JAN 06, 1970	-4.6
SEP 05	-3.5	SEP 18	12.95	FEB 09	-6.1
MAR 10, 1986	-5.9	MAR 04, 1981	23.22	MAR 04	-5.6
SEP 29	-6.0	SEP 22	13.63	MAR 12, 1971	-6.3
MAR 04, 1987	-4.5	MAR 08, 1982	14.00	SEP 01	-7.2
SEP 15	-0.4	SEP 09	8.60	MAR 01, 1972	-6.8
MAR 04, 1988	-2.1	MAR 03, 1983	11.40	SEP 12	-6.4
SEP 23	1.80	SEP 02	8.97	MAR 02, 1973	-6.6
MAR 07, 1989	.23	MAR 02, 1984	12.32	SEP 13	-5.9
SEP 18	-1.1	SEP 11	10.34	MAR 13, 1974	-5.9
MAR 01, 1990	-1.0	MAR 05, 1985	12.86	SEP 11	-6.6
APR 26	-3.2	SEP 05	13.45	MAR 10, 1975	-6.8
MAY 30	-4.1	MAR 10, 1986	7.32	OCT 15	-6.8
JUN 28	-4.8	SEP 23	11.78	MAR 15, 1976	-6.8
JUL 24	-1.9	MAR 04, 1987	15.94	SEP 13	-6.3
AUG 28	1.26	SEP 15	17.74	MAR 08, 1977	-7.7
SEP 26	1.28	MAR 04, 1988	19.39	SEP 28	-7.7
NOV 01	1.24	SEP 23	38.08	MAR 08, 1978	-7.1
29	.79	MAR 07, 1989	18.95	SEP 19	-6.4
JAN 04, 1991	.88	SEP 18	15.55	MAR 12, 1979	-7.4
MAR 08	-0.7	MAR 01, 1990	18.33	SEP 18	-7.3
APR 26	15.03	MAR 10, 1980	15.03		
MAY 29	12.25	SEP 17	12.25		
JUN 26	9.74	MAR 02, 1981	9.74		
JUL 25	11.01	SEP 17	11.01		
SEP 04	8.39	AUG 27	21.50	MAR 08, 1982	-6.5
OCT 08	10.95	SEP 26	19.02	SEP 08	-7.5
NOV 06	13.08	NOV 01	18.98	MAR 02, 1983	-6.9
DEC 03	14.66	27	19.19	AUG 31	-6.8
<b>(A-14-1)34adb-1</b>					
Altitude 4,540					
AUG 04, 1969	8.66	JUL 25	11.01	SEP 17	-6.5
SEP 04	8.39	AUG 27	21.50	MAR 08, 1982	-6.5
OCT 08	10.95	SEP 26	19.02	SEP 08	-7.5
NOV 06	13.08	NOV 01	18.98	MAR 02, 1983	-6.9
DEC 03	14.66	27	19.19	AUG 31	-6.8

Table 3.—Water levels in selected wells—Continued

Date	Water level	Date	Water level	Date	Water level
<b>(B-11-1)8cdb-1—Continued</b>					
MAR 02, 1984	-7.4	SEP 17, 1979	-38.2	SEP 19, 1989	-5.5
SEP 07	-7.2	MAR 10, 1980	-34.5	MAR 01, 1990	-5.6
MAR 04, 1985	-7.3	SEP 17	-35.8	APR 25	-5.1
SEP 05	-6.9	MAR 02, 1981	-33.6	MAY 29	-5.6
MAR 10, 1986	-7.7	SEP 17	-28.9	JUN 28	-4.0
SEP 23	-6.3	MAR 08, 1982	-25.4	JUL 24	-4.3
MAR 05, 1987	-7.1			AUG 27	-3.3
SEP 15	-6.5	<b>(B-11-1)35cas-3</b>		SEP 25	-3.9
MAR 03, 1988	-7.3	Altitude 4,470		OCT 29	-3.4
SEP 23	-6.7	AUG 05, 1969	-18.0	NOV 28	-4.1
MAR 06, 1989	-6.5	SEP 04	-15.8	JAN 17, 1991	-4.3
SEP 19	-6.6	OCT 09	-16.0	MAR 06	-3.6
MAR 01, 1990	-6.1	NOV 07	-16.6		
APR 25	-5.8	DEC 02	-16.3	<b>(B-12-1)8cdb-2</b>	
MAY 29	-6.3	JAN 07, 1970	-13.8	Altitude 4,430	
JUN 28	-6.3	FEB 09	-14.8	AUG 05, 1969	-10.9
JUL 24	-6.3	MAR 04	-15.0	SEP 04	-10.4
AUG 27	-6.1	SEP 03	-14.8	OCT 08	-10.6
SEP 25	-6.4	MAR 01, 1971	-15.6	NOV 06	-10.2
OCT 29	-6.6	SEP 01	-17.7	DEC 03	-9.6
NOV 28	-6.4	MAR 01, 1972	-16.8	JAN 06, 1970	-9.4
JAN 17, 1991	-6.8	SEP 12	-17.9	FEB 10	-9.4
MAR 06	-5.5	MAR 02, 1973	-16.5	MAR 03	-10.6
		SEP 13	-15.9	SEP 03	-9.1
<b>(B-11-1)14aaa-3</b>					
Altitude 4,430		MAR 13, 1974	-14.0	MAR 01, 1971	-7.2
SEP 04	-37.5	SEP 11	-16.9	SEP 01	-11.1
AUG 04, 1969	-37.5	MAR 12, 1975	-16.4	MAR 01, 1972	-11.3
SEP 04	-37.5	OCT 15	-17.5	SEP 12	-10.7
OCT 09	-40.5	MAR 15, 1976	-16.4	MAR 01, 1973	-7.9
NOV 07	-43.2	MAR 08, 1977	-12.9	SEP 12	-11.3
DEC 02	-41.1	SEP 28	-8.7	MAR 13, 1974	-10.3
JAN 07, 1970	-41.0	MAR 08, 1978	-12.7	SEP 11	-10.6
FEB 09	-40.7	SEP 19	-13.0	MAR 10, 1975	-10.1
MAR 04	-39.8	MAR 10, 1980	0.	OCT 14	-9.7
SEP 03	-41.3			MAR 15, 1976	-9.2
MAR 01, 1971	-39.0	<b>(B-11-1)35cca-1</b>		SEP 14	-10.2
SEP 01	-44.3	Altitude 4,475		MAR 08, 1977	-10.0
MAR 01, 1972	-41.8	FEB 23, 1963	-12.3	SEP 28	-8.9
SEP 21	-41.2	MAR 02	-12.3	MAR 09, 1978	-8.5
MAR 02, 1973	-40.9	AUG 31	-14.3	SEP 19	-8.6
SEP 13	-41.4	MAR 02, 1984	-12.9	MAR 12, 1979	-9.0
MAR 13, 1974	-40.1	SEP 07	-12.7	SEP 17	-9.5
SEP 11	-42.2	MAR 04, 1985	-13.4	MAR 10, 1980	-8.6
MAR 12, 1975	-40.8	SEP 05	-10.0	SEP 17	-9.4
OCT 15	-39.9	MAR 10, 1986	-9.5	MAR 02, 1981	-9.3
MAR 19, 1976	-40.6	SEP 23	-9.8	SEP 17	-8.0
MAR 08, 1977	-39.8	MAR 05, 1987	-9.7	MAR 08, 1982	-8.0
SEP 28	-39.1	SEP 15	-7.2	SEP 08	-10.6
MAR 08, 1978	-39.4	MAR 03, 1988	-6.8	MAR 02, 1983	-10.3
SEP 19	-39.2	SEP 23	-4.5	AUG 31	-15.8
MAR 20, 1979	-39.2	MAR 06, 1989	-4.9	MAR 02, 1984	-14.2

Table 3.—Water levels in selected wells—Continued

Date	Water level	Date	Water level	Date	Water level
<b>(B-12-1)8cdb-2—Continued</b>					
SEP 07, 1984	-15.2	SEP 18, 1982	-12.5	MAR 06, 1989	4.55
MAR 04, 1985	-13.2	MAR 02, 1983	-11.9	SEP 18	4.64
SEP 05	-12.9	AUG 31	-12.7	MAR 01, 1990	4.82
MAR 10, 1986	-12.4	MAR 02, 1984	-12.9	APR 25	4.88
SEP 23	-12.3	SEP 07	-12.6	MAY 29	4.36
MAR 04, 1987	-11.5	MAR 04, 1985	-12.8	JUN 28	4.47
SEP 15	-11.6	SEP 19	-12.2	JUL 24	4.49
MAR 04, 1988	-9.6	MAR 10, 1986	-13.9	AUG 27	4.60
SEP 23	-8.6	SEP 29	-13.2	SEP 26	4.89
MAR 06, 1989	-8.1	MAR 05, 1987	-13.2	OCT 30	4.80
SEP 29	-8.4	SEP 15	-12.4	NOV 26	5.13
MAR 01, 1990	-7.4	MAR 03, 1988	-12.1	JAN 03, 1991	5.17
APR 25	-7.0	SEP 23	-11.2	MAR 07	4.87
MAY 29	-7.7	MAR 15, 1989	-11.4		
JUN 28	-7.6	SEP 18	-11.7	<b>(B-13-1)28abb-1</b>	
JUL 24	-7.5	MAR 01, 1990	-12.0	Altitude 4,460	
AUG 27	-7.2	APR 25	-11.9	MAY 29, 1990	9.67
SEP 25	-7.2	MAY 29	-12.2	JUN 27	9.87
NOV 30	-6.0	JUN 28	-12.6	JUL 24	10.01
JAN 16, 1991	-5.8	JUL 24	-12.4	AUG 27	9.98
MAR 09	-5.5	AUG 27	-11.8	SEP 26	10.68
		SEP 25	-12.2	OCT 29	11.45
<b>(B-12-1)15sedc-1</b>					
Altitude 4,415		OCT 29	-12.0	NOV 26	11.65
APR 26, 1990	-11.5	JAN 16, 1991	-11.6	JAN 03, 1991	11.96
MAY 30	-10.8	MAR 07	-12.0	MAR 07	11.68
JUN 28	-10.9			<b>(B-13-1)30acc-1</b>	
JUL 24	-11.4	(B-13-1)10bbe-1		Altitude 4,410	
AUG 27	-11.4	Altitude 4,485		AUG 05, 1969	-22.3
SEP 25	-11.3	APR 11, 1978	4.80	SEP 04	-21.5
OCT 29	-10.9	SEP 19	5.53	OCT 08	-22.5
NOV 29	-11.0	MAR 13, 1979	5.03	NOV 06	-22.1
JAN 17, 1991	-11.2	SEP 20	4.65	DEC 03	-23.5
MAR 07	-10.8	MAR 11, 1980	4.82	JAN 06, 1970	-22.2
		SEP 18	4.65	FEB 10	-23.1
<b>(B-12-1)15sedc-2</b>					
Altitude 4,415		MAR 04, 1981	4.79	MAR 03	-23.7
SEP 22		SEP 22	5.77	SEP 02	-19.9
OCT 29, 1990	-7.1	MAR 08, 1982	4.43	MAR 01, 1971	-21.6
NOV 29	-6.9	SEP 09	3.93	SEP 01	-22.9
JAN 17, 1991	-7.4	MAR 03, 1983	3.86	MAR 01, 1972	-23.9
MAR 07	-7.3	SEP 02	4.66	SEP 12	-21.8
		MAR 05, 1984	3.82	MAR 01, 1973	-21.8
<b>(B-12-1)26ccca-1</b>					
Altitude 4,420		SEP 11	4.30	SEP 12	-22.3
MAR 20, 1979	-9.6	SEP 05	4.02	MAR 13, 1974	-19.9
SEP 20	-7.3	MAR 10, 1986	4.00	MAR 10, 1975	-20.1
MAR 10, 1980	-12.5	SEP 23	4.16	OCT 14	-21.7
SEP 17	-5.8	MAR 04, 1987	4.63	MAR 15, 1976	-20.2
MAR 20, 1981	-12.9	SEP 15	4.96	SEP 14	-22.1
SEP 17	-10.7	MAR 04, 1988	4.75	MAR 08, 1977	-18.8
MAR 08, 1982	-11.1	SEP 23	4.75	SEP 28	-19.7

Table 3.—Water levels in selected wells—Continued

Date	Water level	Date	Water level	Date	Water level
<b>(B-13-1)30ccc-1—Continued</b>					
MAR 09, 1978	-20.5	MAR 05, 1985	9.93	SEP 23, 1988	.38
SEP 19	-20.6	SEP 05	10.22	MAR 22, 1989	9.29
MAR 12, 1979	-19.8	MAR 10, 1986	5.82	SEP 18	11.62
SEP 19	-20.7	SEP 23	11.39	MAR 01, 1990	15.01
MAR 10, 1980	-19.5	MAR 04, 1987	11.35	APR 25	14.86
SEP 17	-21.4			MAY 29	15.00
MAR 02, 1981	-20.2	<b>(B-14-2)27ddd-1</b>		JUN 27	13.70
SEP 17	-19.0	Altitude 4,800		JUL 24	15.24
MAR 08, 1982	-19.4	AUG 04, 1969	8.69	AUG 27	16.10
SEP 08	-24.1	SEP 04	9.97	SEP 26	16.70
MAR 02, 1983	-22.6	OCT 08	13.75	OCT 30	16.75
AUG 31	-27.7	NOV 06	15.30	NOV 26	18.07
MAR 02, 1984	-22.2	DEC 03	15.34	JAN 04, 1991	18.52
SEP 07	-23.6	JAN 06, 1970	13.06	MAR 07	15.95
MAR 04, 1985	-22.2	FEB 10	9.95		
SEP 05	-22.6	MAR 03	9.93	<b>(B-15-1)34ccc-1</b>	
MAR 10, 1986	-23.5	MAR 12, 1971	11.12	Altitude 4,510	
SEP 23	-19.0	SEP 01	10.01	AUG 04, 1969	5.87
MAR 04, 1987	-22.3	MAR 01, 1972	11.08	SEP 04	6.04
SEP 15	-21.5	SEP 12	11.39	OCT 08	7.42
MAR 09, 1988	-21.2	MAR 01, 1973	15.94	NOV 06	8.08
SEP 23	-19.8	SEP 12	10.15	DEC 03	8.34
MAR 15, 1989	-23.6	MAR 13, 1974	11.30	JAN 06, 1970	9.10
SEP 19	-20.4	SEP 13	10.86	FEB 10	9.32
MAR 01, 1990	-19.8	MAR 10, 1975	11.69	MAR 03	9.46
APR 25	-19.4	OCT 14	11.82	SEP 02	6.09
MAY 29	-19.0	MAR 16, 1976	11.92	MAR 01, 1971	8.45
JUN 28	-18.7	SEP 15	11.97	SEP 01	7.19
JUL 24	-18.7	MAR 09, 1977	16.75	MAR 01, 1972	9.15
AUG 27	-19.2	SEP 28	16.90	SEP 12	6.80
SEP 25	-19.2	MAR 09, 1978	11.10	MAR 01, 1973	9.34
OCT 29	-18.7	SEP 19	13.27	SEP 12	6.67
NOV 29	-17.5	MAR 13, 1979	12.13	MAR 13, 1974	8.01
JAN 16, 1991	-17.2	SEP 20	10.12	SEP 13	6.70
MAR 07	-17.0	MAR 11, 1980	7.97	MAR 10, 1975	8.75
		SEP 18	10.64	OCT 14	7.98
<b>(B-14-1)31aaa-1</b>					
Altitude 4,790					
MAR 20, 1978	11.59	MAR 08, 1982	10.77	MAR 09, 1977	9.82
SEP 19	11.02	SEP 09	8.88	SEP 26	7.98
MAR 13, 1979	12.28	MAR 03, 1983	11.00	MAR 08, 1978	9.11
SEP 20	11.09	SEP 02	7.83	SEP 19	6.80
MAR 11, 1980	10.95	MAR 05, 1984	12.22	MAR 13, 1979	7.88
SEP 18	9.73	SEP 11	7.82	SEP 20	6.05
MAR 04, 1981	11.18	MAR 05, 1985	10.03	MAR 11, 1980	7.45
SEP 22	13.65	SEP 05	8.52	SEP 18	7.64
MAR 08, 1982	11.95	MAR 10, 1986	7.14	MAR 04, 1981	9.68
SEP 09	11.48	SEP 23	10.80	SEP 22	7.80
MAR 03, 1983	7.34	MAR 04, 1987	12.57	MAR 08, 1982	7.76
SEP 02	9.88	SEP 15	12.37	SEP 09	7.54
SEP 11, 1984	9.49	MAR 04, 1988	14.47	MAR 03, 1983	8.74

Table 3.—Water levels in selected wells—Continued

Date	Water level	Date	Water level	Date	Water level
<b>(B-14-2)27ddd-1—Continued</b>					
SEP 02, 1983	7.72	13S 38E 03DBB1		14S 38E 15CDC1	
MAR 02, 1984	8.98	Altitude 4,850	Altitude 4,800		
SEP 11	7.72	MAR 08, 1977	24.26	AUG 11, 1969	27.89
MAR 05, 1985	8.26	SEP 30	26.72	SEP 08	32.62
SEP 05	6.97	MAR 21, 1978	24.76	23	31.84
MAR 10, 1986	7.54	APR 04, 1990	22.77	OCT 10	28.70
SEP 23	7.11	MAY 30	23.88	NOV 13	24.06
JUN 26		JUN 26	25.22	DEC 04	22.68
MAR 04, 1987	9.91	JUL 25	25.49	JAN 08, 1970	23.83
SEP 17	8.45	AUG 27	25.77	FEB 11	20.90
MAR 04, 1988	9.80	SEP 26	25.41	MAR 09	20.60
SEP 23	11.02	OCT 30	24.28	18	20.67
MAR 07, 1989	9.49	NOV 26	23.91	SEP 24	34.03
SEP 18	8.15	JAN 04, 1991	23.96	MAR 23, 1971	21.37
MAY 29, 1990	8.60	MAR 07	23.45	SEP 15	23.68
JUL 11	8.12			MAR 08, 1972	17.98
	24	13S 40E 30ACB1		SEP 27	29.09
AUG 27	8.08	Altitude 5,050		MAR 28, 1973	20.07
SEP 26	8.73	SEP 08, 1969	36.55	SEP 26	30.54
OCT 30	9.40	OCT 10	27.02	MAR 20, 1974	22.15
NOV 26	9.65	NOV 13	24.62	SEP 23	40.20
JAN 03, 1991	9.68	DEC 04	23.93	MAR 19, 1975	23.84
MAR 07	9.74	JAN 08, 1970	22.95	MAR 10, 1976	21.78
		FEB 11	20.19		
MAR 09	20.66	MAR 08, 1977	19.85	MAR 08, 1977	22.06
SEP 18	9.08	SEP 29	35.39	JUL 06	46.02
MAR 21, 1978		MAR 21, 1978	17.85	AUG 12	52.58
MAR 04, 1981	11.01	APR 26, 1990	30.25	SEP 20	43.02
SEP 22	9.22	SEP 26	51.35	SEP 20	43.02
MAR 08, 1982	9.88	NOV 01	44.92	29	41.53
SEP 09	8.95	27	42.24	NOV 09	36.41
MAR 03, 1983	10.28	JAN 04, 1991	39.86	DEC 21	33.60
SEP 02	9.08	MAR 07	34.56	FEB 09, 1978	31.32
SEP 11, 1984	9.15			MAR 21	29.95
SEP 05, 1985	8.33	14S 38E 04BBC1		APR 26	25.20
SEP 29, 1986	8.75	Altitude 4,800		MAY 31	22.60
SEP 17, 1987	9.75	APR 11, 1990	20.11	JUL 12	44.40
SEP 23, 1988	7.34	26	19.25	AUG 23	38.43
SEP 18, 1989	9.28	MAY 30	18.29	SEP 26	33.81
MAR 01, 1990	9.82	JUN 26	32.03	NOV 08	28.85
JUN 27	9.69	JUL 25	25.16	DEC 20	26.26
JUL 11	9.48	AUG 27	28.10	JAN 24, 1979	24.92
	24	SEP 26	24.28	MAR 07	23.83
AUG 27	9.29	OCT 30	23.21	APR 20	22.57
SEP 26	9.90	NOV 27	22.89	MAY 23	22.33
OCT 29	10.69	JAN 04, 1991	22.49	JUL 25	33.76
NOV 26	10.87	MAR 07	12.28	SEP 12	35.05
JAN 03, 1991	10.98			OCT 24	31.39
MAR 07	11.05			DEC 12	28.37
				FEB 07, 1980	25.98
				MAR 26	24.63

Table 3.—Water levels in selected wells—Continued

Date	Water level	Date	Water level	Date	Water level
<b>14S 38E 15CDC1—Continued</b>					
MAY 14, 1980	21.31	MAR 09, 1988	20.36	MAY 29, 1990	7.80
JUL 15	27.07	MAY 16	25.85	JUN 26	6.83
SEP 09	25.62	JUL 05	44.16	JUL 25	7.54
NOV 04	23.48	SEP 14	48.10	AUG 27	5.97
JAN 07, 1981	22.14	NOV 29	33.99	SEP 26	7.73
MAR 24	22.02	JAN 06, 1989	31.55	OCT 30	8.15
APR 15	21.95	MAR 24	28.70	NOV 27	8.07
MAY 19	22.93	MAY 04	24.49	JAN 04, 1991	8.26
JUL 08	38.21	JUL 11	44.29	MAR 08	6.98
AUG 20	44.06	SEP 13	37.75		
SEP 22	33.22	NOV 21	32.69		
NOV 04	29.27	JAN 23, 1990	29.80		
FEB 10, 1982	25.37	FEB 28	28.87		
MAR 23	23.94	MAR 13	27.44		
MAY 05	22.14	APR 26	28.63		
JUN 15	19.29	MAY 30	31.10		
JUL 27	24.20	JUL 25	44.85		
SEP 08	25.70	AUG 27	47.96		
OCT 27	21.83	SEP 26	43.30		
DEC 07	20.90	OCT 30	40.42		
JAN 13, 1982	20.26	NOV 27	38.32		
MAR 02	19.84	JAN 04, 1991	38.99		
MAY 25	17.73	MAR 07	33.91		
JUL 07	15.85				
SEP 20	17.17				
NOV 09	17.22				
JAN 05, 1984	16.13				
MAR 28	16.70				
MAY 30	14.28				
JUL 18	15.56				
SEP 05	14.85				
NOV 15	15.41				
JAN 04, 1985	15.27				
MAR 20	16.29				
MAY 02	15.04				
JUL 11	32.27				
SEP 09	21.03				
NOV 20	17.90				
JAN 23, 1986	17.52				
MAR 05	15.34				
MAY 21	12.41				
JUL 01	22.27				
SEP 24	16.75				
NOV 07	15.94				
JAN 28, 1987	15.75				
MAR 11	15.80	JAN 04, 1991	85.58		
MAY 28	18.73	MAR 08	86.48		
JUL 09	43.05				
SEP 22	24.00	14S 39E 29DAD1			
NOV 13	21.69	Altitude 4,755			
JAN 28, 1988	20.93	APR 26, 1990	7.66	23	3.64

Table 3.—Water levels in selected wells—Continued

Date	Water level	Date	Water level	Date	Water level
<b>15S 39E 23BBB1—Continued</b>					
OCT 10, 1969	4.48	MAR 23, 1981	1.56	MAR 08, 1972	24.06
NOV 13	4.40	APR 15	2.83	SEP 27	40.86
DEC 04	4.75	MAY 19	2.31	MAR 28, 1973	25.65
JAN 08, 1970	4.91	JUL 03	3.13	SEP 26	42.00
FEB 11	2.03	AUG 20	3.87	MAR 20, 1974	27.06
MAR 09	2.57	SEP 22	6.62	SEP 23	51.69
18	2.80	NOV 04	5.62	MAR 19, 1975	32.91
SEP 24	3.75	MAR 23, 1982	1.33	SEP 19	42.30
MAR 23, 1971	.95	MAY 05	2.51	MAR 10, 1976	30.46
SEP 15	3.37	JUN 15	2.44	SEP 09	41.01
MAR 08, 1972	1.18	JUL 27	3.25	MAR 09, 1977	27.13
SEP 27	4.51	SEP 08	3.63	JUL 06	44.10
MAR 28, 1973	.74	OCT 27	2.52	AUG 18	47.42
SEP 26	3.53	DEC 07	1.74	SEP 29	45.95
MAR 20, 1974	1.19	MAR 02, 1983	.83	NOV 09	40.47
SEP 23	5.02	MAY 25	1.77	DEC 21	37.05
MAR 19, 1975	1.28	JUL 07	2.52	FEB 09, 1978	33.25
SEP 19	3.85	SEP 20	3.48	MAR 21	30.83
MAR 10, 1976	2.20	NOV 09	1.17	APR 26	28.85
SEP 09	3.50	JAN 05, 1984	1.08	MAY 31	27.52
MAR 09, 1977	5.59	MAR 28	1.04	JUL 12	40.27
18	3.96	MAY 30	3.20	AUG 23	48.62
SEP 20	4.54	JUL 18	2.49	SEP 26	46.02
29	5.13	SEP 05	4.14	NOV 08	40.00
NOV 09	6.18			DEC 20	35.49
DEC 21	4.19			JAN 24, 1979	32.91
FEB 08, 1978	1.42			MAR 07	30.86
MAR 21	2.15			AUG 11, 1969	6.62
APR 26	2.13			SEP 08	6.98
MAY 31	3.39			JUL 25	48.13
JUL 12	2.68			SEP 12	48.55
AUG 23	3.67			OCT 24	46.19
SEP 26	* 5			DEC 12	40.26
NOV 08	5.64			FEB 11	35.58
DEC 20	5.00			MAR 09	7.00
JAN 23, 1979	5.51			MAR 26	31.49
MAR 06	2.61			MAY 14	26.17
APR 19	2.77			JUL 15	30.81
MAY 23	3.56			SEP 09	38.72
JUL 25	3.49			JUL 25	48.13
SEP 12	4.72			SEP 12	48.55
OCT 24	4.71			OCT 24	46.19
DEC 12	6.05			DEC 12	40.26
FEB 07, 1980	3.33			JUL 06	33.51
MAR 26	1.81			JUL 08	33.51
MAY 14	1.66			JUL 27	28.80
JUL 15	3.14			MAR 22	27.80
SEP 10	3.37			MAR 03	22.43
NOV 04	4.75			MAR 04	29.89
JAN 07, 1981	4.08			MAR 09	31.49
<b>15S 39E 34CBD1</b>					
<b>16S 39E 15CAD1</b>					
<b>16S 39E 18CDA1—Continued</b>					
JAN 24, 1979	5.51				
MAR 07	3.62				
AUG 11, 1969	6.62				
SEP 08	6.98				
JUL 25	7.05				
NOV 13	6.86				
DEC 04	6.95				
JAN 08, 1970	7.13				
FEB 11	6.58				
MAR 09	7.00				
NOV 04	5.64				
DEC 20	5.00				
JAN 23, 1979	5.51				
MAR 06	2.61				
APR 19	2.77				
MAY 23	3.56				
JUL 25	3.49				
SEP 12	4.72				
OCT 24	4.71				
DEC 12	6.05				
FEB 07, 1980	3.33				
MAR 26	1.81				
MAY 14	1.66				
JUL 15	3.14				
SEP 10	3.37				
NOV 04	4.75				
JAN 07, 1981	4.08				

Table 3.—Water levels in selected wells—Continued

Date	Water level	Date	Water level	Date	Water level
<b>16S 39E 18CDA1—Continued</b>					
OCT 27, 1982	28.74	NOV 27, 1990	32.38	MAR 25, 1970	15.32
MAR 02, 1983	27.00	MAR 07	27.85	31	15.41
MAY 25	23.28			APR 05	15.91
JUL 07	22.10	16S 40E 29CCB1		10	16.60
SEP 20	28.23	Altitude 4,504.9		15	16.89
NOV 09	25.93	AUG 05, 1969	5.30	20	17.43
JAN 05, 1984	23.98	10	4.32	25	17.63
MAR 28	22.00	13	3.60	30	17.90
MAY 30	21.22	20	3.70	MAY 05	17.88
JUL 18	26.96	25	4.98	10	17.96
SEP 05	26.86	31	6.15	15	18.07
NOV 15	24.23	SEP 05	4.01	20	18.54
JAN 04, 1985	23.34	10	3.96	25	18.75
MAR 20	21.81	15	4.95	31	18.88
MAY 02	20.96	20	4.99	JUN 05	19.00
JUL 11	29.19	25	5.95	10	19.05
SEP 09	33.40	30	6.73	15	19.19
NOV 20	26.25	OCT 05	7.24	20	19.37
JAN 23, 1986	24.81	10	7.83	24	19.56
MAR 05	24.40	15	8.43	25	18.95
MAY 21	23.87	20	8.95	30	19.08
JUL 01	26.10	25	9.32	JUL 05	15.30
SEP 24	28.16	31	9.33	SEP 24	7.70
NOV 07	26.53	NOV 05	10.57	25	7.83
JAN 28, 1987	24.60	10	11.20	30	8.38
MAR 11	24.32	15	11.87	OCT 05	8.89
MAY 28	22.68	20	12.40	10	8.35
JUL 09	32.87	25	12.82	15	8.18
SEP 22	26.80	30	13.31	20	7.52
NOV 13	25.18	DEC 05	13.86	25	5.83
JAN 28, 1988	23.75	10	14.50	31	6.67
MAR 09	23.08	15	15.28	NOV 05	6.24
MAY 17	19.56	20	16.12	08	5.68
JUL 05	33.59	25	16.26	10	6.25
SEP 14	31.82	31	16.94	15	7.13
NOV 29	29.83	JAN 05, 1970	17.30	20	7.38
JAN 06, 1989	29.84	10	17.71	25	6.63
MAR 24	25.96	15	18.26	30	7.18
MAY 04	25.10	20	16.70	DEC 05	8.20
JUL 11	36.56	25	13.92	10	8.55
SEP 13	38.33	31	13.07	MAR 23, 1971	3.90
NOV 21	30.83	FEB 05, 1970	13.37	25	3.59
JAN 23, 1990	27.08	10	13.44	31	4.19
MAR 13	26.00	15	13.39	APR 05	4.80
APR 18	21.90	20	13.08	10	5.45
25	22.89	25	13.22	15	6.54
MAY 30	24.74	28	13.28	18	6.70
JUN 27	27.08	MAR 05	13.50	20	6.57
JUL 24	36.35	10	13.72	25	5.88
SEP 26	38.19	15	13.74	26	3.57
OCT 29	33.97	20	13.91	30	3.89

Table 3.—Water levels in selected wells—Continued

Date	Water level	Date	Water level	Date	Water level
<b>16S 40E 29CCB1—Continued</b>					
MAY 05, 1971	4.83	16S 40E 29CCB1—Continued		NOV 30, 1978	16.72
10	5.85	DEC 05	15.90	25	4.17
15	4.70	10	15.74	SEP 15	6.41
20	4.06	11	15.72	20	7.16
25	4.00	15	15.96	25	7.84
31	3.63	20	16.32	30	8.71
JUN 05	3.33	25	16.65	OCT 05	9.86
10	3.20	31	17.04	10	11.04
15	3.01	JAN 01, 1979	17.02	15	12.26
20	2.68	05	17.33	20	12.90
25	2.18	10	17.83	25	13.27
27	1.97	15	18.15	31	14.03
30	4.30	20	18.49	DEC 12	19.25
JUL 06	6.36	23	18.73	15	19.36
09	5.87	25	18.65	20	19.36
18	6.51	31	19.10	25	19.35
20	6.14	FEB 03	19.34	31	19.35
25	5.20	05	19.34	JAN 05, 1980	19.35
27	5.83	10	19.34	10	17.82
AUG 05	3.93	15	18.64	15	8.27
10	5.52	20	18.47	20	10.77
15	5.61	25	18.61	25	12.03
20	5.63	28	18.78	31	12.98
25	5.49	MAR 05	18.83	FEB 05	13.56
31	5.05	10	18.40	10	14.16
SEP 15	6.58	15	17.01	15	12.45
MAR 08, 1972	6.07	20	13.43	20	8.88
SEP 27	9.46	25	9.44	25	8.90
MAR 28, 1973	10.48	31	7.50	29	8.51
SEP 26	7.57	APR 05	7.79	MAR 05	7.95
MAR 20, 1974	3.86	10	7.74	07	7.70
SEP 23	9.27	15	7.93	26	8.34
MAR 19, 1975	10.49	20	8.24	31	7.87
SEP 19	8.50	25	8.77	APR 03	7.16
MAR 10, 1976	15.08	30	9.27	05	7.16
SEP 09	7.93	MAY 05	9.69	10	7.37
MAR 09, 1977	23.37	10	10.14	15	7.77
JUL 06	3.44	15	10.46	20	8.20
AUG 18	6.70	20	11.03	25	8.42
SEP 29	10.65	25	11.44	30	8.83
NOV 09	16.17	31	12.16	MAY 05	9.27
DEC 21	16.46	JUN 05	12.62	10	9.37
FEB 08, 1978	13.47	10	13.14	14	7.93
MAR 21	9.37	15	13.62	JUL 15	9.03
APR 26	8.00	20	14.11	20	9.95
MAY 31	11.00	25	14.55	25	8.87
JUL 12	2.18	29	14.91	31	8.55
AUG 23	3.92	30	9.66	AUG 05	9.00
SEP 26	8.69	JUL 05	5.20	10	9.67
NOV 08	14.85	10	7.85	15	10.52
25	16.50	15	8.91	20	11.31

Table 3.—Water levels in selected wells—Continued

Date	Water level	Date	Water level	Date	Water level
<b>16S 40E 29CCB1—Continued</b>					
AUG 25, 1980	11.97	SEP 10, 1981	14.84	MAY 20, 1982	6.37
31	12.89	15	16.11	25	6.69
SEP 05	13.70	25	17.85	31	7.07
06	13.88	30	18.58	JUN 05	7.53
10	13.77	OCT 05	19.23	10	8.00
11	13.70	10	19.65	15	8.69
15	14.10	15	19.76	20	9.69
20	14.80	20	20.09	JUL 31	10.39
25	15.54	25	20.48	AUG 05	11.36
30	16.27	31	21.03	10	11.93
OCT 05	16.84	NOV 04	21.25	15	11.45
10	17.52	05	21.33	20	12.14
15	17.94	10	21.64	25	12.44
20	18.44	15	21.84	31	13.09
25	18.76	20	22.15	SEP 05	13.74
31	19.26	25	22.24	10	13.91
NOV 03	19.45	30	22.43	15	14.18
04	19.48	DEC 05	22.53	20	14.84
JAN 07, 1981	22.83	10	22.67	25	15.56
MAR 24	18.74	11	22.70	30	15.16
25	18.52	15	22.48	OCT 01	15.12
31	17.08	20	22.39	05	14.59
APR 05	16.42	25	22.03	10	14.29
10	16.29	31	21.34	15	14.27
15	16.52	JAN 05, 1982	20.49	20	14.37
20	16.72	10	20.12	25	14.56
25	16.88	15	19.70	31	14.57
30	16.13	20	19.68	NOV 05	14.38
MAY 05	15.91	25	19.76	10	14.55
10	15.98	31	19.62	15	14.22
15	16.20	FEB 05	19.64	20	14.05
20	16.49	10	19.53	25	13.58
25	16.35	15	19.66	30	13.28
31	15.28	20	17.51	DEC 05	13.47
JUN 03	15.16	25	13.40	10	13.29
05	15.23	28	12.69	15	13.22
10	15.41	MAR 05	9.32	20	13.22
15	15.90	10	7.64	25	13.23
JUL 10	15.03	15	6.28	31	12.97
15	10.35	20	4.85	JAN 05, 1983	13.05
20	11.73	25	5.27	10	12.74
25	12.72	31	5.37	13	12.55
31	13.77	APR 05	4.83	15	12.51
AUG 02	8.30	10	4.96	20	12.63
05	8.87	12	3.01	25	12.88
10	9.69	15	4.03	31	12.56
15	9.99	20	4.76	FEB 05	12.65
20	10.93	22	4.98	10	12.69
25	11.81	MAY 05	5.08	15	12.11
31	12.94	10	5.72	20	11.11
SEP 05	13.85	15	6.03	25	10.40

Table 3.—Water levels in selected wells—Continued

Date	Water level	Date	Water level	Date	Water level
<b>16S 40E 29CCB1—Continued</b>					
FEB 28, 1983	9.62	NOV 05, 1983	10.91	AUG 20, 1984	5.39
MAR 05	7.80	10	10.86	25	5.66
10	7.17	15	10.45	31	6.21
15	6.02	20	10.01	SEP 05	6.71
20	5.65	25	9.66	10	7.11
25	4.30	30	8.96	15	7.64
31	4.37	DEC 05	8.56	20	8.24
APR 05	4.23	10	7.59	25	8.09
10	4.53	15	6.75	30	8.26
15	4.06	20	6.44	OCT 05	8.62
20	4.58	25	6.24	10	9.02
25	4.83	31	6.15	15	8.89
30	4.38	JAN 05, 1984	6.06	20	9.03
MAY 05	2.68	10	5.94	25	9.15
10	3.68	15	5.88	31	9.15
15	3.33	20	5.84	NOV 05	9.06
19	2.00	25	5.94	10	8.57
20	2.67	31	5.94	15	8.00
25	3.89	FEB 05	6.06	20	8.08
31	4.74	10	6.18	25	8.28
JUN 05	5.29	15	5.54	30	8.34
10	5.83	20	5.58	DEC 05	8.46
15	6.13	25	5.60	10	8.61
20	6.50	29	5.61	15	8.83
25	6.99	MAR 05	5.72	20	9.06
30	7.46	10	5.47	25	9.34
JUL 05	7.24	15	3.44	31	9.65
10	7.69	20	1.88	JAN 15, 1985	10.43
15	8.26	25	1.84	20	10.68
20	9.04	26	1.32	25	10.94
25	9.85	31	.94	31	11.30
31	10.65	APR 01	.57	FEB 05	11.63
AUG 05	11.36	05	1.99	10	11.94
10	10.55	10	1.76	15	12.23
15	10.35	MAY 30	5.26	20	12.40
20	7.83	31	5.33	25	12.71
25	8.25	JUN 05	5.61	28	12.84
31	9.03	10	5.13	MAR 05	13.01
SEP 05	9.55	15	5.60	10	13.24
10	10.13	20	5.93	15	13.39
15	10.74	25	6.33	18	13.53
20	11.36	30	6.79	20	13.46
25	11.92	JUL 05	7.29	25	13.20
30	11.87	10	7.90	31	11.46
OCT 01	11.94	15	8.51	APR 05	6.64
05	10.81	20	9.23	08	1.84
10	10.61	25	9.63	10	3.01
15	10.43	31	5.04	15	3.78
20	10.45	AUG 05	4.75	20	4.44
25	10.59	10	5.77	25	4.71
31	10.77	15	6.49	30	5.10

Table 3.—Water levels in selected wells—Continued

Date	Water level	Date	Water level	Date	Water level
<b>16S 40E 29CCB1—Continued</b>					
MAY 05, 1985	5.67	JAN 15, 1986	9.68	SEP 25, 1986	7.92
10	6.07	20	9.71	30	7.44
15	6.33	25	9.28	OCT 05	7.47
20	6.68	31	9.28	10	7.79
25	7.07	FEB 05	8.35	15	8.18
31	7.67	10	8.16	20	8.45
JUN 05	8.31	15	7.32	25	8.73
10	9.08	19	.60	31	9.20
15	9.83	20	1.09	NOV 07	9.33
20	10.13	25	2.29	10	9.51
25	8.65	28	2.68	15	9.80
30	7.14	MAR 05	3.16	20	10.06
JUL 05	4.75	10	2.34	25	10.31
10	3.09	15	2.69	30	10.56
15	4.27	20	2.92	DEC 05	10.84
20	5.66	25	3.52	10	11.03
25	6.37	31	4.08	15	11.15
31	7.14	APR 05	3.01	20	11.54
AUG 05	7.62	10	3.68	25	11.81
10	6.80	15	2.71	31	12.05
15	2.81	20	3.27	JAN 05, 1987	12.44
20	3.49	25	2.48	10	12.64
25	5.14	30	2.29	15	12.93
31	5.92	MAY 05	3.09	20	13.31
SEP 05	6.38	10	2.29	25	13.60
10	6.71	15	3.04	31	13.88
15	7.27	20	3.83	FEB 03	14.02
20	7.71	25	4.29	05	11.52
25	8.16	31	4.91	10	12.00
30	8.57	JUN 05	5.49	15	9.51
OCT 05	9.01	10	5.95	20	10.17
10	9.38	15	6.36	25	10.39
15	9.69	20	6.75	28	10.47
20	10.12	25	7.03	MAR 05	10.50
25	10.31	30	3.45	10	10.38
31	10.86	JUL 05	2.86	15	10.26
NOV 05	11.25	10	4.25	20	10.30
10	11.50	15	5.02	25	10.25
14	11.77	20	5.72	31	10.38
15	11.75	25	6.14	APR 05	10.64
20	11.61	31	6.62	10	10.74
25	11.26	AUG 05	7.15	15	10.89
30	9.71	10	7.77	20	11.16
DEC 05	9.12	15	6.88	25	11.34
10	8.84	20	2.46	30	11.67
15	8.75	25	4.71	MAY 05	11.92
20	8.86	31	5.38	10	12.17
25	9.05	SEP 05	6.17	15	12.46
31	9.32	10	6.71	20	12.49
JAN 05, 1986	9.45	15	7.24	25	12.47
10	9.55	20	7.72	31	12.44

Table 3.—Water levels in selected wells—Continued

Date	Water level	Date	Water level	Date	Water level
<b>16S 40E 29CCB1—Continued</b>					
JUN 05, 1987	12.63	JUN 05, 1988	19.34	NOV 05, 1988	12.61
10	12.87	20	19.61	10	12.80
15	13.29	22	19.79	15	13.14
20	13.75	25	19.74	20	13.46
25	13.94	29	18.88	25	13.67
30	4.11	MAR 05	14.67	30	13.50
JUL 05	7.21	10	14.04	DEC 05	13.47
10	4.39	15	13.95	10	13.88
15	6.95	20	14.04	15	14.28
20	7.91	25	14.24	20	14.69
25	8.59	31	14.48	25	15.10
31	9.69	APR 05	14.70	30	15.59
AUG 05	9.69	10	14.91	31	15.64
10	7.36	15	15.18	JAN 05, 1989	16.10
15	5.78	20	15.42	10	16.67
20	2.65	25	15.52	15	17.06
22	.72	30	15.56	20	17.44
25	3.66	MAY 05	15.48	25	17.83
31	5.27	10	15.59	31	18.67
SEP 05	6.21	15	15.80	FEB 05	18.86
10	6.69	20	15.95	10	19.06
15	7.23	25	15.99	15	19.11
20	7.85	31	16.25	20	19.19
25	8.59	JUN 05	4.81	25	19.47
30	9.27	10	7.12	26	19.27
OCT 05	9.93	15	8.62	MAR 05	17.42
10	10.48	20	9.84	10	13.34
15	10.87	25	7.16	15	9.10
20	11.45	30	7.42	20	5.50
25	12.07	JUL 05	8.55	25	5.26
31	12.67	10	9.74	31	5.58
NOV 05	13.11	15	10.96	APR 05	6.20
10	13.58	20	7.21	10	6.61
15	13.84	25	9.80	15	6.95
20	14.07	31	11.21	20	7.23
25	14.34	AUG 05	3.04	25	7.53
30	14.64	10	6.36	30	7.82
DEC 05	14.88	15	7.39	MAY 05	8.17
10	15.11	20	7.20	10	8.37
15	15.33	25	7.47	15	8.73
20	15.53	26	6.50	20	9.19
25	15.95	SEP 15	8.40	25	9.66
31	16.28	20	9.07	31	10.06
JAN 05, 1988	16.50	25	9.91	JUN 05	10.56
10	16.84	30	10.52	10	11.08
15	17.21	OCT 05	11.02	15	11.62
20	17.65	10	11.42	20	2.85
25	18.48	15	12.36	25	4.45
31	18.21	20	12.00	30	6.35
FEB 05	18.59	25	12.42	JUL 05	7.18
10	19.05	31	12.45	10	8.10

**Table 3.—Water levels in selected wells—Continued**

Date	Water level	Date	Water level	Date	Water level
<b>16S 40E 29CCB1—Continued</b>					
JUL 15, 1989	9.08	JAN 05, 1990	23.84	JUL 20, 1990	6.29
20	9.61	10	24.22	25	7.99
25	10.30	15	22.97	31	9.77
31	11.46	20	23.74	AUG 05	5.91
AUG 05	11.81	25	24.91	06	3.73
10	12.65	31	24.98	10	6.50
15	13.34	FEB 05	25.33	15	7.64
20	13.19	10	25.54	20	8.67
25	6.52	15	25.41	25	9.80
31	8.29	20	25.76	27	10.22
SEP 05	9.70	21	25.78	31	10.85
10	10.75	22	25.78	SEP 05	11.67
15	11.54	25	21.48	10	13.01
20	12.55	28	19.49	15	14.53
25	13.31	MAR 05	20.76	20	15.90
30	14.34	10	20.73	25	17.37
OCT 05	15.40	15	20.21	26	17.54
10	16.36	20	20.81	30	18.42
15	17.12	25	19.98	OCT 05	19.51
20	17.37	31	20.83	10	20.58
25	17.91	APR 04	20.73	15	21.72
31	18.30	10	20.98	20	22.83
NOV 05	18.54	15	21.78	25	23.61
10	19.29	20	22.33	31	24.17
15	19.85	25	22.60	NOV 01	24.39
20	20.00	26	22.75	05	24.64
25	20.29	30	23.41	11	25.02
30	20.22	MAY 05	23.63	15	25.35
DEC 05	20.72	10	24.22	20	25.27
10	20.74	15	23.93	25	25.72
15	21.73	20	24.05	27	25.71
20	21.94	24	19.98	JAN 04, 1991	27.39
25	21.96	29	8.83	17	27.52
31	23.63	JUN 26	6.37	MAR 08	22.44

**Table 4.—Discharge of selected flowing wells**

Location: See page 2 for an explanation of the numbering systems for hydrologic-data sites.  
 Discharge: gal/min, gallons per minute.

Location	Date	Discharge (gal/min)	Location	Date	Discharge (gal/min)
(A-11-1)18baa-1	03-01-90	30.0	(B-12-1) 8cdb-2	08-27-90	1.2
	06-28-90	30.0		09-25-90	1.2
	07-26-90	30.0		10-29-90	1.2
	09-27-90	30.0		11-30-90	1.2
	10-29-90	33.0		01-16-91	1.2
	11-28-90	37.5		03-09-91	1.2
	01-17-91	37.5		04-19-90	1.5
	03-08-91	30.0		05-30-90	2.0
	04-26-90	4.6		06-28-90	1.7
	06-29-90	4.0		07-24-90	1.9
	06-23-90	3.8		08-27-90	2.0
	07-25-90	3.8		09-25-90	1.9
	09-26-90	3.3		10-29-90	1.7
	10-31-90	3.5		11-29-90	1.6
	11-20-90	3.8		01-17-91	1.7
	12-20-90	3.5		03-17-91	1.6
	01-17-91	3.5		10-29-90	3.8
	03-09-91	3.3		11-29-90	3.3
	03-11-80	6.0		01-17-91	4.0
	09-18-80	6.0		03-07-91	4.0
	03-04-81	4.3		03-01-90	.7
	09-22-81	5		04-25-90	.8
	03-08-82	7.0		08-27-90	.5
	09-09-82	10		09-25-90	.6
	09-18-89	1.3		10-29-90	.6
	03-01-90	.5		01-16-91	.6
	04-26-90	6.0		(B-13-1)30acc-1	03-01-73
	04-27-90	6.0		09-12-73	.7
	05-30-90	8.6		03-13-74	.6
	06-28-90	10.0		09-11-74	.6
	07-24-90	3.5		03-10-75	.6
	03-01-90	.7		10-14-75	.6
	04-25-90	.5		03-15-76	.7
	05-29-90	.6		09-14-76	.7
	06-28-90	.6		03-08-77	.6
	07-24-90	.6		09-28-77	.8
	08-27-90	.5		03-09-78	.7
	09-25-90	.5		09-19-78	.7
	10-29-90	.6		03-12-79	.7
	11-28-90	.6		09-19-79	.6
	01-17-91	.6		03-10-80	.6
	03-06-91	.6		09-17-80	.6
	03-01-90	1.1		03-02-81	.7
	04-25-90	1.1		09-17-81	.8
	05-29-90	1.1		03-08-82	.7
	06-28-90	1.3		03-01-90	.5
	07-24-90	1.4		04-25-90	.5

**Table 4.—Discharge of selected flowing wells—Continued**

Location	Date	Discharge (gal/min)	Location	Date	Discharge (gal/min)
(B-13-1)30acc-1	05-29-90	0.3	(B-13-1)30acc-1	10-29-90	0.4
	06-28-90	.4		11-29-90	.4
	07-24-90	.4		01-15-91	.4
	08-27-90	.4		03-07-91	.4
	09-25-90	.4			

**Table 5.—Temperature and specific conductance  
of water from selected wells**

Location: See page 2 for an explanation of the numbering systems for hydrologic-data sites.

Water temperature: In degrees Celsius.

Specific conductance: In microsiemens per centimeter at 25 degrees Celsius; — indicates no data available.

Location	Date	Water temperature	Specific conductance
(A-11-1)18baa-1	03-01-90	11.0	570
	04-27-90	11.0	475
	05-30-90	11.5	430
	06-28-90	12.0	500
	07-26-90	12.0	520
	08-27-90	12.5	485
	09-27-90	12.0	495
	10-29-90	11.5	465
	11-28-90	10.5	455
	01-17-91	10.0	540
	03-08-91	11.5	465
(A-12-1)17daa-1	04-26-90	20.0	510
	05-29-90	20.0	500
	06-28-90	20.5	520
	07-25-90	20.5	500
	08-28-90	20.5	500
	09-26-90	20.5	520
	10-31-90	20.0	455
	11-30-90	20.0	470
	12-20-90	20.0	470
	01-17-91	20.0	490
	03-09-91	20.0	490
(A-12-1)29cab-1	06-29-90	15.5	520
	08-28-90	19.0	495
	10-22-90	10.5	415
	10-29-90	10.5	415
	11-28-90	9.5	455
	01-16-91	14.0	490
	03-06-91	16.5	500
(A-12-1)31dab-2	03-01-90	16.5	—
	04-27-90	16.0	410
	10-29-90	16.0	440
	11-28-90	15.5	380
	01-16-91	14.5	440
	03-07-91	14.5	415
(A-14-1)22bad-1	03-01-90	9.5	455
	04-26-90	10.0	460

**Table 5.—Temperature and specific conductance  
of water from selected wells—Continued**

Location	Date	Water temperature	Specific conductance
(A-14-1)22bad-1—Continued	05-30-90	10.0	470
	06-28-90	10.0	475
	07-24-90	10.0	485
(B-11-1)9cdb-1	03-01-90	10.0	910
	04-25-90	11.0	950
	05-29-90	10.0	960
	06-28-90	11.0	960
	07-24-90	11.0	1,000
	08-27-90	12.0	960
	09-25-90	12.0	980
	10-29-90	11.0	840
	11-28-90	10.0	950
	01-17-91	10.0	950
	03-06-91	9.5	970
(B-11-1)35cca-1	03-01-90	10.0	730
	04-25-90	11.0	770
	05-29-90	11.0	750
	06-28-90	11.0	780
	07-24-90	11.0	800
	08-27-90	11.5	800
	09-25-90	14.5	800
	10-29-90	13.0	670
	11-28-90	10.5	800
	01-07-91	10.0	770
	03-06-91	10.0	740
(B-12-1)8cdb-2	03-01-90	13.0	730
	04-25-90	13.0	770
	05-29-90	13.5	1,200
	06-28-90	13.0	800
	07-24-90	13.0	810
	08-27-90	14.5	770
	09-25-90	13.5	770
	10-29-90	12.5	780
	11-30-90	13.0	750
	01-16-91	12.5	730
	03-09-91	12.0	730
(B-12-1)15adc-1	04-26-90	17.5	860
	05-30-90	18.0	870
	06-28-90	18.5	880
	07-24-90	18.0	890
	08-27-90	19.0	850

**Table 5.—Temperature and specific conductance  
of water from selected wells—Continued**

Location	Date	Water temperature	Specific conductance
(B-12-1)15adc-1—Continued	09-25-90	19.0	860
	10-29-90	17.5	790
	11-29-90	17.5	820
	01-17-91	17.5	830
	03-07-91	17.0	860
(B-12-1)15adc-2	10-29-90	17.5	820
	11-29-90	17.5	830
	01-17-91	17.5	840
	03-07-91	17.0	890
(B-12-1)26cca-1	03-01-90	12.0	560
	04-25-90	12.5	600
	05-29-90	12.0	600
	06-28-90	13.0	600
	07-24-90	13.5	660
	08-27-90	13.0	650
	09-25-90	14.0	600
	10-29-90	12.5	550
	11-28-90	12.5	560
	01-16-91	12.0	600
	03-07-91	12.0	580

**Table 6.—Records of selected springs**

[— indicates no data available]

Location: See page 2 for an explanation of numbering systems for hydrologic-data sites.

Altitude of land surface: In feet above sea level interpolated from U.S. Geological Survey topographic maps.

Probable source of water: Geologic unit from which spring discharges: Cz u, Cenozoic undivided; pC u, Precambrian undivided.

Discharge: gal/min, gallons per minute.

Specific conductance:  $\mu\text{S}/\text{cm}$ , microsiemens per centimeter at 25 degrees Celsius.

Water temperature: °C, degrees Celsius.

Location	Name	Altitude of land surface (feet)	Probable source of water	Field measurements				
				Discharge (gal/min)	Specific conductance ( $\mu\text{S}/\text{cm}$ )	Water temperature (°C)	pH	Date
(A-10-1)21bab-S1	—	4,770	Cz u	100	—	—	—	06-06-90
(A-10-1)21bca-S1	—	4,770	Cz u	500	—	—	—	06-06-90
(A-10-1)33bac-S1	Whites Inc.	4,820	Cz u	76.4	530	12.0	6.4	06-06-90
				117	500	9.0	7.4	12-06-90
				447	650	12.0	6.5	05-31-90
				277	—	—	—	11-21-90
(A-11-1)10ccd-S1	Little Ballard Spring	4,500	Cz u	829	600	12.0	6.2	05-31-90
				344	—	—	—	11-21-90
(A-11-1)15bbc-S1	Big Ballard Spring	4,490	Cz u	3,150	540	14.5	6.3	06-05-90
				2,061	670	8.0	7.9	11-28-90
				2,050	740	9.0	8.1	12-06-90
(A-11-1)18bcd-S1	Spring Creek Number 3	4,430	Cz u	2,280	—	—	—	06-05-90
				3,890	—	—	—	12-06-90
(A-11-1)18bdd-S1	Spring Creek Number 2	4,430	Cz u	2,280	—	—	—	06-05-90
				3,890	—	—	—	12-06-90
(A-12-1)4bab-S1	Chambers Spring	4,470	Cz u	421	680	13.0	6.4	05-31-90
(A-13-1)17dca-S1	Joseph Smith Spring	4,460	Cz u	216	640	11.0	6.3	06-01-90
				165	620	4.5	7.9	11-10-90
(A-13-1)20ddb-S1	Corbit Spring	4,400	Cz u	854	510	17.5	6.5	06-07-90
				942	500	8.5	7.8	11-20-90
(A-13-1)20aba-S1	William Smith Spring	4,460	Cz u	347	590	12.0	7.8	06-01-90
				68.2	600	5.0	6.9	11-20-90
(A-13-1)20cca-S1	—	4,440	Cz u	600	540	11.0	6.3	05-31-90
				722	—	7.5	8.1	11-10-90
(A-13-1)29ccd-S1	Gittins Springs	4,440	Cz u	395	360	14.5	6.3	05-31-90
				503	480	6.0	8.0	11-10-90
(A-13-1)32adc-S1	Hopkins Spring	4,470	Cz u	520	640	12.0	6.4	05-31-90
				280	—	—	—	11-21-90
(A-14-1)5acbb-S1	Clear Creek Spring	4,460	Cz u	1,200	600	12.0	6.4	06-07-90
				552	600	12.0	7.5	11-20-90
(A-14-1)33abb-S1	—	4,440	Cz u	100	950	4.5	8.2	06-07-90
				2	—	—	—	11-10-90
(A-14-1)34bdc-S1	Pearl-Thompson	4,490	Cz u	100	730	10.5	6.4	06-07-90
				30.0	650	10.0	7.2	11-20-90
(A-14-2)29bcd-S1	Ranger Spring	5,850	pC u	5,660	—	—	—	06-07-90
(A-14-2)300ba-S1	Cherry Creek Spring	5,310	Cz u	200	—	—	—	06-07-90
(B-10-1)10aac-S1	Wellsville Spring	4,535	Cz u	822	730	18.0	6.7	06-06-90
				930	820	11.5	7.6	12-07-90
(B-10-1)10cab-S1	Murray Spring	4,640	Cz u	900	530	11.0	6.8	06-06-90
				1,280	495	10.0	8.2	12-07-90
(B-11-1)21dac-S1	Gardner Spring	4,440	Cz u	596	520	11.5	6.2	06-05-90
				1,990	—	—	—	12-07-90
(B-11-1)27dca-S1	Darley Spring	4,480	Cz u	1,500	485	9.5	8.0	12-07-90
(B-11-1)34dac-S1	Northfield Spring	4,510	Cz u	3,200	500	10.0	6.7	06-06-90
				1,050	455	10.5	7.4	11-28-90
16S 40E 22DBB1	Low Spring	4,800	Cz u	11.5	405	10.5	6.3	06-06-90
				7.3	345	10.0	7.4	12-07-90

**Table 7.—Field measurements of discharge, specific conductance, and water temperature at selected surface-water sites**

[— indicates no data available]

Location: See page 2 for explanation of the numbering systems for hydrologic-data sites; location numbers are listed in approximate downstream order; letter following location number indicates type of site: B, canal or ditch; W, stream.

Discharge:  $\text{ft}^3/\text{s}$ , cubic feet per second.

Specific conductance:  $\mu\text{S}/\text{cm}$ , microsiemens per centimeter at 25 degrees Celsius.

Water temperature: °C, degrees Celsius.

Location	Date	Discharge ( $\text{ft}^3/\text{s}$ )	Specific conductance ( $\mu\text{S}/\text{cm}$ )	Water temperature (°C)	Remarks
16S 40E 04DDC1B	06-08-90	30.9	310	13.5	Cub River Canal
	06-09-90	30.6	325	12.5	
	06-10-90	29.9	320	13.0	
16S 40E 09CBC1B	06-08-90	1.11	—	—	Diversion from Cub River Canal
	06-09-90	1.27	—	—	
	06-10-90	1.01	—	—	
16S 40E 09CBC2B	06-08-90	35.4	315	14.0	Cub River Canal
	06-09-90	33.8	260	13.5	
	06-10-90	32.2	320	14.0	
16S 40E 09CBC3B	06-08-90	4.72	—	—	Diversion from Cub River Canal
	06-09-90	2.29	258	13.5	
	06-10-90	2.46	315	14.0	
16S 40E 08DAB1B	06-08-90	3.77	—	—	Diversion from Cub River Canal
	06-09-90	3.76	315	14.0	
	06-10-90	0	—	—	
16S 40E 08CAA1B	06-08-90	1.27	—	—	Diversion from Cub River Canal
	06-09-90	.904	325	14.0	
	06-10-90	.706	314	14.5	
16S 40E 08BBB1B	06-08-90	21.5	325	15.0	Cub River Canal
	06-09-90	21.5	330	15.0	
	06-10-90	22.8	325	15.0	
16S 40E 07AAA1B	06-08-90	1.06	—	—	Diversion from Cub River Canal
	06-09-90	1.54	330	15.0	
	06-10-90	1.89	325	14.5	
16S 40E 06DCB1B	06-08-90	.134	946	14.0	Inflow to Cub River Canal
	06-09-90	.134	1,160	14.0	
	06-10-90	.134	1,160	14.0	
16S 40E 06CAD1B	06-08-90	.107	859	15.5	Inflow to Cub River Canal
	06-09-90	.268	1,090	15.5	
	06-10-90	.107	990	14.0	
16S 40E 06CBB1B	06-08-90	23.1	325	17.0	Cub River Canal
	06-09-90	22.1	330	15.5	
	06-10-90	25.2	335	16.0	

**Table 7.—Field measurements of discharge, specific conductance, and water temperature at selected surface-water sites—Continued**

Location	Date	Discharge (ft <sup>3</sup> /s)	Specific conductance (µS/cm)	Water temperature (°C)	Remarks
16S 39E 28CBC1B	08-08-90	68.9	940	23.0	Cub River Canal
	08-09-90	64.4	890	22.0	
	08-10-90	67.3	900	21.0	
16S 39E 28CCA1B	08-08-90	.447	—	—	Diversion from Cub River Canal
	08-09-90	.447	—	—	
	08-10-90	2.01	—	—	
16S 39E 28CDD1B	08-08-90	14.40	—	—	Diversion from Cub River Canal
	08-09-90	14.5	—	—	
	08-10-90	13.9	—	—	
16S 39E 28CDD2B	08-08-90	1.56	—	—	Diversion from Cub River Canal
	08-09-90	2.24	—	—	
	08-10-90	6.44	—	—	
(A-15-1)32cdd-1B	08-08-90	0	—	—	Diversion from Cub River Canal
	08-09-90	1.43	—	—	
	08-10-90	3.34	960	22.0	
(A-14-1)5abb-1B	08-08-90	7.60	838	23.0	Diversion from Cub River Canal
	08-09-90	7.89	900	23.0	
	08-10-90	8.57	960	22.0	
(A-14-1)5bdd-1B	08-08-90	6.10	—	—	Diversion from Cub River Canal
	08-09-90	5.81	925	24.0	
	08-10-90	3.08	950	23.0	
(A-14-1)5bdd-2B	08-08-90	1.70	—	—	Diversion from Cub River Canal
	08-09-90	1.72	925	24.0	
	08-10-90	2.11	950	23.0	
(A-14-1)5bdd-1B	08-08-90	2.46	—	—	Diversion from Cub River Canal
	08-09-90	2.40	—	—	
	08-10-90	2.41	—	—	
(A-14-1)5cab-1B	08-08-90	2.57	—	—	Diversion from Cub River Canal
	08-09-90	3.21	—	—	
	08-10-90	2.14	—	—	
(A-14-1)5cdo-1B	08-08-90	46.9	890	24.0	Cub River Canal
	08-09-90	39.7	890	24.0	
	08-10-90	40.8	990	22.5	
(A-12-1)14bas-1B	08-22-90	25.0	370	12.5	Logan Northern Canal
	08-22-90	21.7	355	16.0	
(A-12-1)11cdd-1B	08-22-90	.109	355	13.0	Diversion from Logan Northern Canal
	08-22-90	.030	345	16.0	
(A-12-1)11cdd-2B	08-22-90	.371	355	13.0	Diversion from Logan Northern Canal
	08-22-90	.276	355	16.0	
(A-12-1)11cda-1B	08-22-90	.022	350	14.0	Diversion from Logan Northern Canal
	08-22-90	.067	371	16.0	

**Table 7.—Field measurements of discharge, specific conductance, and water temperature at selected surface-water sites—Continued**

Location	Date	Discharge (ft <sup>3</sup> /s)	Specific conductance (µS/cm)	Water temperature (°C)	Remarks
(A-12-1)11cad-1B	08-22-90	0.007	—	—	Diversion from Logan Northern Canal
	08-22-90	.033	—	—	
(A-12-1)11cab-1B	08-22-90	24.4	365	14.5	Logan Northern Canal
	08-22-90	22.7	356	17.0	
(A-12-1)36bca-1W	11-07-90	62.3	215	7.5	Logan River
	11-08-90	76.5	370	3.5	
	11-09-90	62.6	370	4.5	
(A-12-1)35aca-1B	11-07-90	9.54	—	—	Inflow to Logan River
	11-08-90	9.81	—	—	
	11-09-90	9.83	—	—	
(A-12-1)34ddd-1W	11-07-90	73.7	340	4.0	Logan River
	11-08-90	82.0	365	3.5	
	11-09-90	78.9	345	5.0	
(A-10-1)6ccc-1B	08-07-90	48.1	460	16.0	Wellsville-Mendon Lower Canal
(B-10-1)1ddd-1B	08-07-90	2.07	412	21.0	Diversion from Wellsville-Mendon Lower Canal
(B-10-1)1ddo-1B	08-07-90	.882	586	16.0	Inflow to Wellsville-Mendon Lower Canal
(B-10-1)1ddo-2B	08-07-90	.071	—	—	Inflow to Wellsville-Mendon Lower Canal
(B-10-1)1ddo-3B	08-07-90	.446	580	15.0	Diversion from Wellsville-Mendon Lower Canal
(B-10-1)1dbo-1B	08-07-90	.396	—	—	Diversion from Wellsville-Mendon Lower Canal
(B-10-1)11aaa-1B	08-07-90	1.52	—	—	Diversion from Wellsville-Mendon Lower Canal
(B-10-1)11aac-1B	08-07-90	.504	—	—	Diversion from Wellsville-Mendon Lower Canal
(B-10-1)11adb-1B	08-07-90	36.1	440	—	Wellsville-Mendon Lower Canal
(B-10-1)10deb-1B	08-07-90	.882	—	—	Diversion from Wellsville-Mendon Lower Canal
(B-10-1)10dbb-1B	08-07-90	3.16	447	25.0	Diversion from Wellsville-Mendon Lower Canal
(B-10-1)10bca-1B	08-07-90	36.0	450	23.0	Wellsville-Mendon Lower Canal
(B-10-1)3cbd-1B	08-07-90	1.14	—	—	Diversion from Wellsville-Mendon Lower Canal
(B-10-1)3cab-1B	08-07-90	.468	—	—	Diversion from Wellsville-Mendon Lower Canal
(B-10-1)3bdc-1B	08-07-90	2.30	—	—	Diversion from Wellsville-Mendon Lower Canal
(B-11-1)34cds-1B	08-07-90	1.41	—	—	Diversion from Wellsville-Mendon Lower Canal
(B-11-1)34cab-1B	08-07-90	19.8	450	24.0	Wellsville-Mendon Lower Canal
(B-11-1)27ccc-1B	08-07-90	5.05	—	—	Diversion from Wellsville-Mendon Lower Canal
(B-11-1)27ddc-1B	08-07-90	1.43	—	—	Diversion from Wellsville-Mendon Lower Canal

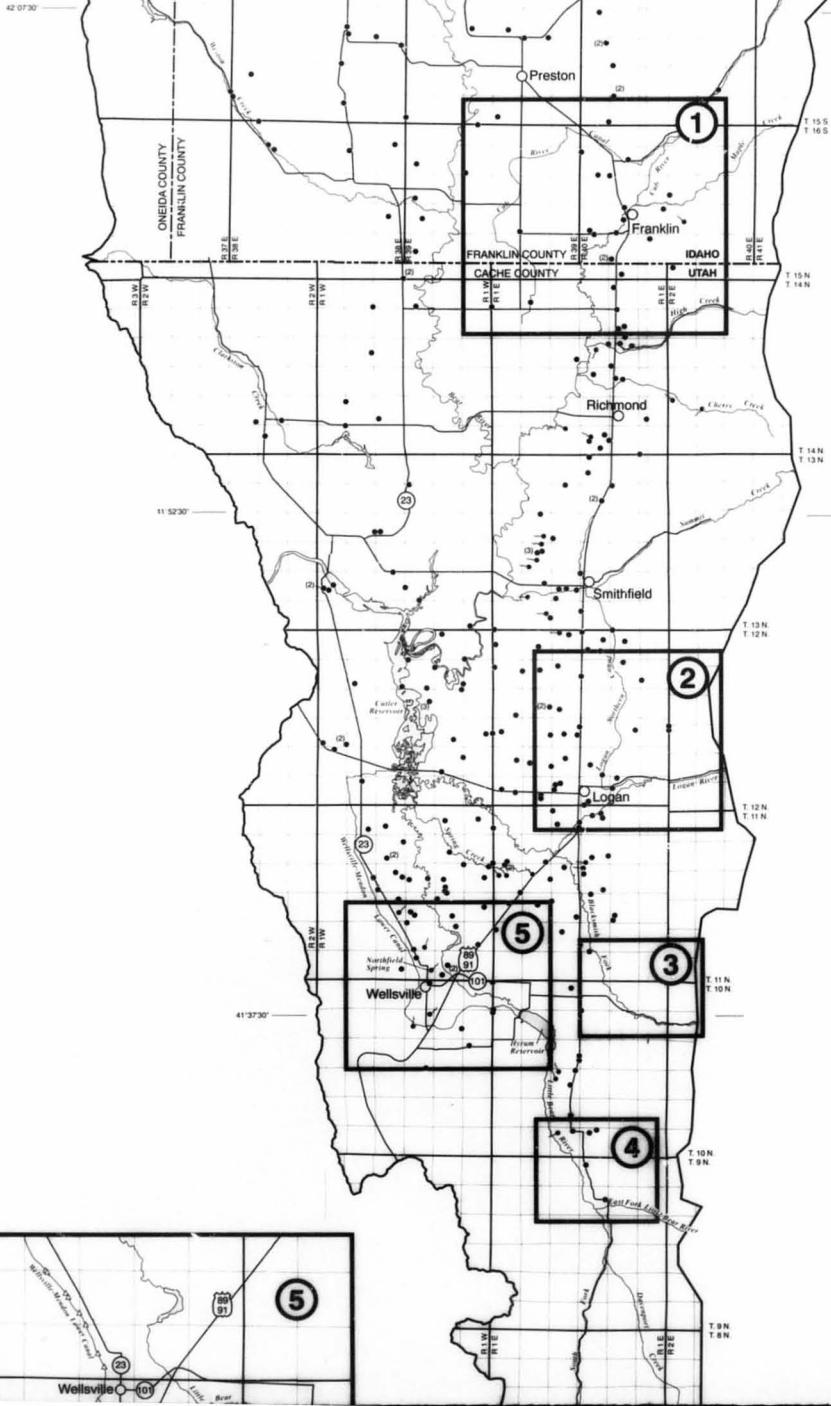
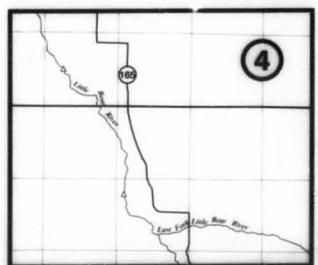
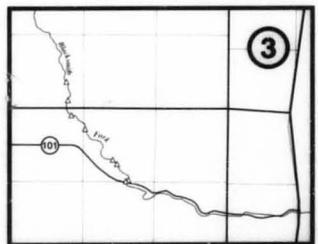
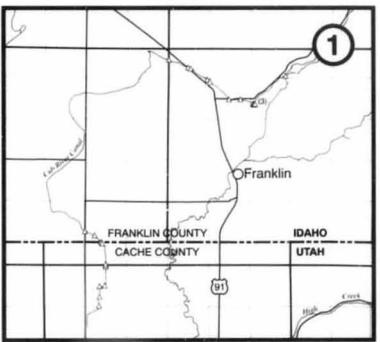
**Table 7.—Field measurements of discharge, specific conductance, and water temperature at selected surface-water sites—Continued**

Location	Date	Discharge (ft <sup>3</sup> /s)	Specific conductance (µS/cm)	Water temperature (°C)	Remarks
(B-11-1)28abd-1B	08-07-90	1.36	—	—	Diversion from Wellsville-Mendon Lower Canal
(B-11-1)28acc-1B	08-07-90	.042	—	—	Diversion from Wellsville-Mendon Lower Canal
(B-11-1)28baa-1B	08-07-90	1.18	—	—	Diversion from Wellsville-Mendon Lower Canal
(B-11-1)28baa-2B	08-07-90	14.1	440	26.0	Wellsville-Mendon Lower Canal
(A-10-1)2dco-1W	11-07-90	51.4	400	4.0	Blacksmith Fork
	11-08-90	48.6	360	5.5	
	11-09-90	52.3	325	7.5	
(A-10-1)2ddc-1B	11-07-90	3.42	363	9.5	Inflow to Blacksmith Fork
	11-08-90	3.51	550	10.0	
	11-09-90	3.33	560	10.0	
(A-10-1)2dca-1B	11-07-90	2.24	—	—	Diversion from Blacksmith Fork
	11-08-90	2.09	445	7.0	
	11-09-90	2.01	445	8.5	
(A-10-1)2cad-1B	11-07-90	5.42	—	—	Diversion from Blacksmith Fork
	11-08-90	5.33	450	6.5	
	11-09-90	5.56	445	8.5	
(A-10-1)2bcb-1B	11-07-90	1.39	450	5.5	Diversion from Blacksmith Fork
	11-08-90	1.39	450	6.0	
	11-09-90	1.36	300	7.5	
(A-10-1)3aab-1B	11-07-90	1.18	—	—	Diversion from Blacksmith Fork
	11-08-90	1.06	440	6.0	
	11-09-90	1.21	440	8.5	
(A-11-1)34ddc-1B	11-07-90	9.32	445	5.5	Diversion from Blacksmith Fork
	11-08-90	8.70	385	6.5	
	11-09-90	8.33	430	7.0	
(A-11-1)34dac-1W	11-07-90	45.3	—	—	Blacksmith Fork
	11-08-90	41.4	450	6.0	
	11-09-90	36.6	455	8.5	
(A-9-1)10bbc-1W	11-07-90	12.7	—	—	Little Bear River
	11-08-90	17.0	445	4.5	
	11-09-90	17.5	445	6.0	
(A-10-1)33bdc-1W	11-07-90	18.2	—	—	Little Bear River
	11-08-90	21.6	475	5.5	
	11-09-90	21.9	471	7.5	
(B-11-1)13aab-1W	08-27-90	19.1	450	17.5	Spring Creek
	09-27-90	22.4	550	15.5	
	11-01-90	20.6	480	8.0	
	11-29-90	21.3	520	5.0	
	01-17-91	22.1	560	7.0	
	03-09-91	22.2	530	10.0	

**Table 7.—Field measurements of discharge, specific conductance, and water temperature at selected surface-water sites—Continued**

Location	Date	Discharge (ft <sup>3</sup> /s)	Specific conductance (µS/cm)	Water temperature (°C)	Remarks
(B-11-1)34daa-S1	08-06-90	7.12	—	—	Northfield Spring
	07-26-90	7.07	530	11.0	
	08-27-90	6.72	520	10.5	
	09-25-90	2.77	540	11.0	
	11-05-90	2.54	470	10.5	
	11-28-90	2.33	460	10.0	
	01-17-91	1.84	580	10.0	
	03-09-91	2.32	520	10.0	
15S 41E 08ABB1W	07-31-90	40.3	270	14.5	Cub River near Franklin, Idaho
	08-28-90	25.8	230	17.5	
	09-26-90	17.5	295	13.5	
	10-31-90	13.8	265	7.0	
	11-29-90	13.4	308	.5	

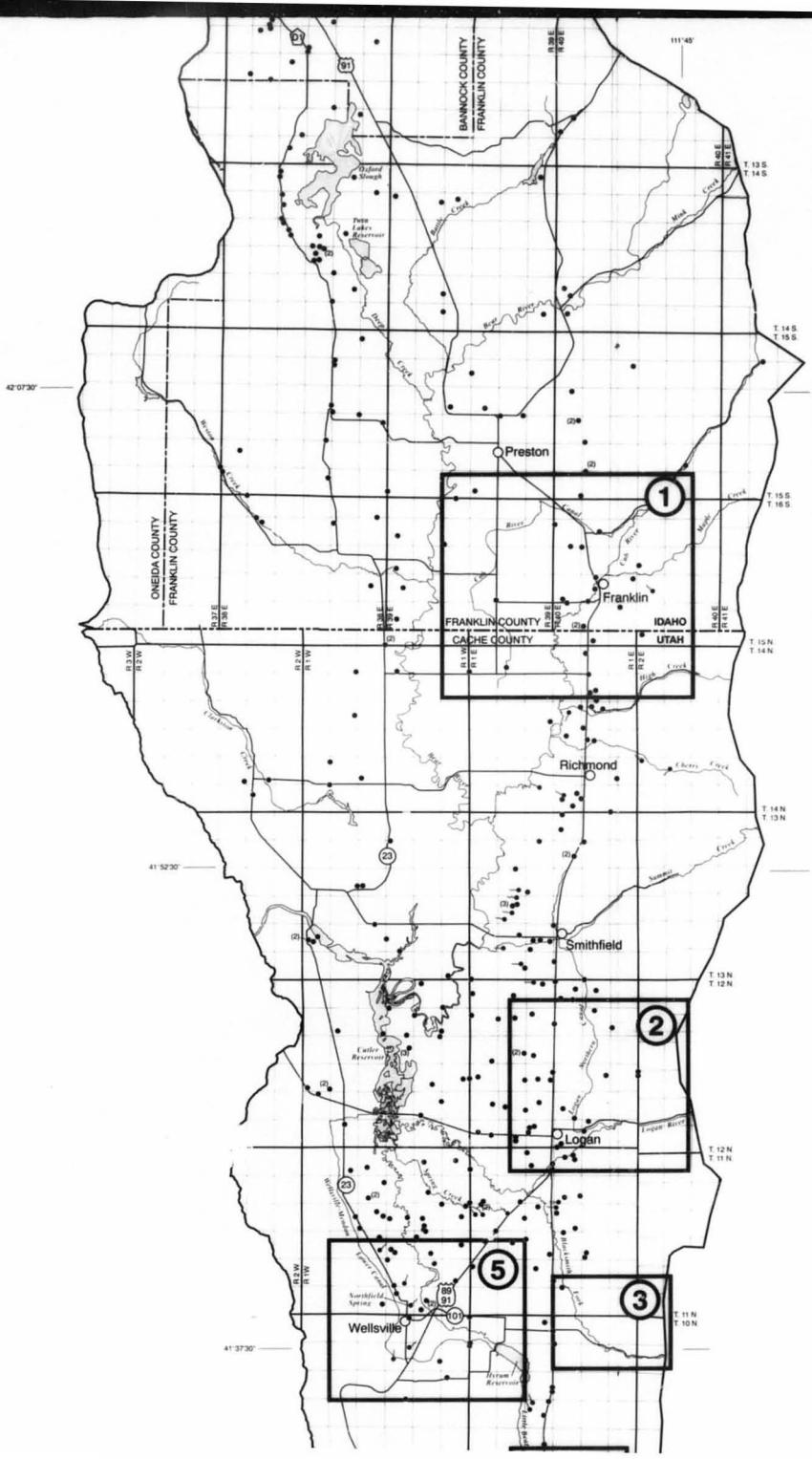
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