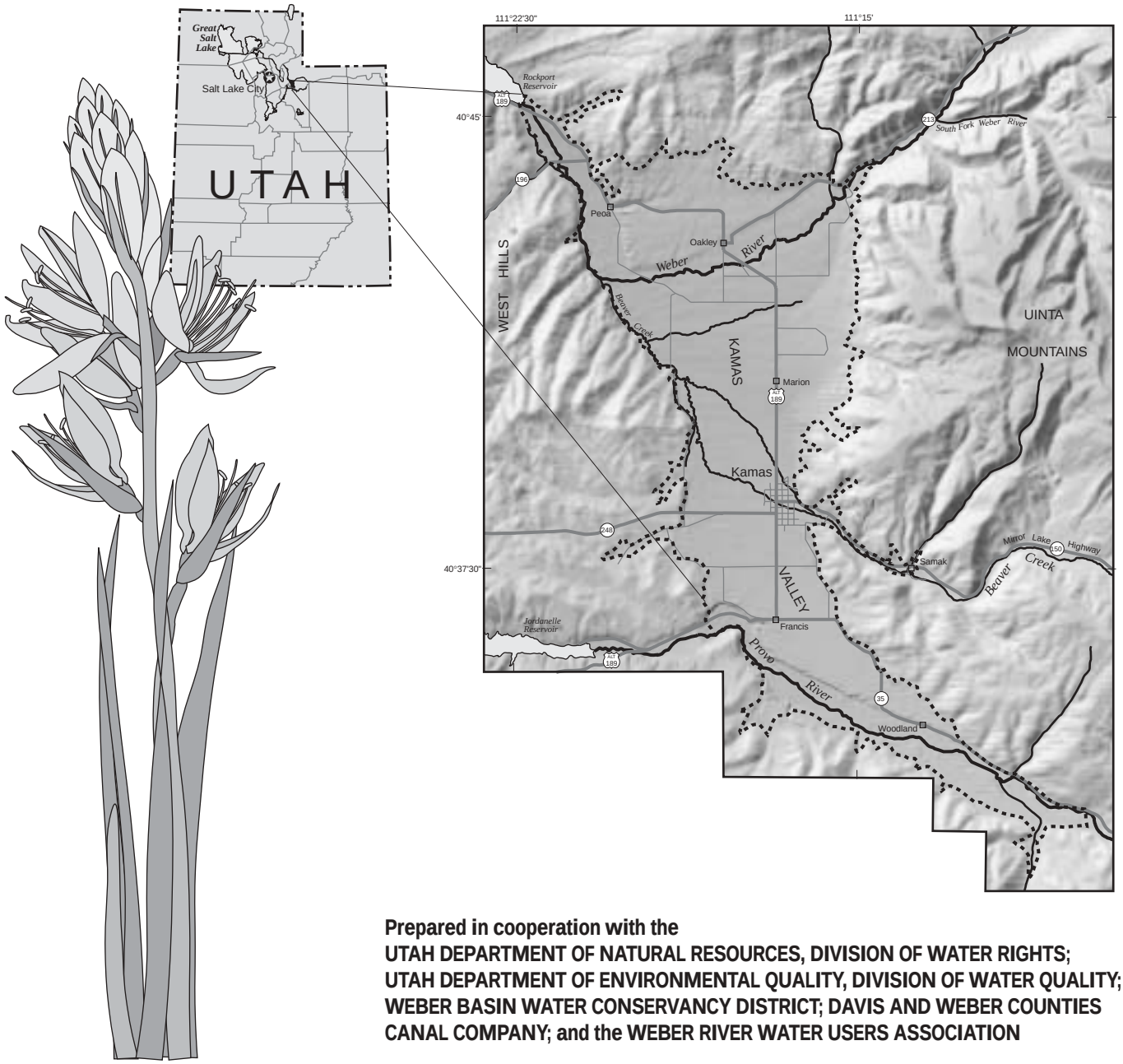
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

# Selected Hydrologic and Water-Quality Data for Kamas Valley and Vicinity, Summit County, Utah, 1997–2000

**U.S. GEOLOGICAL SURVEY**
**Open-File Report 01–155**




**Prepared in cooperation with the**
**UTAH DEPARTMENT OF NATURAL RESOURCES, DIVISION OF WATER RIGHTS;**
**UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WATER QUALITY;**
**WEBER BASIN WATER CONSERVANCY DISTRICT; DAVIS AND WEBER COUNTIES CANAL COMPANY; and the WEBER RIVER WATER USERS ASSOCIATION**

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**Cover:** Flower image is of *Camassia quamash*. The following information is from the book *Five Hundred Utah Place Names*, written by R.W. Leigh in 1961.

Before the arrival of the first European settlers, Kamas Valley is reported to have been a rolling grass and meadow land. On the meadow grew a species of plant known as *Camassia quamash* (common name: camas) of the lily family with blue or white flowers and succulent bulbs, similar to the hyacinth. The name Kamas is an early form of the word “camas”, which came into English from Chinook jargon and means “sweet.” Camas bulbs were a staple food of the Native Americans, prepared by steaming in heated pits and deposited in caches for winter provisions. In aboriginal times, camas also grew along the headwaters of the Weber River. Kamas Valley is named for this edible plant.

**Note:** Although similar in appearance, *Camassia quamash* is **not** the same as the white-flowered camas (*Zigadenus sp.*) known as “death camas,” which should **never** be eaten.

# SELECTED HYDROLOGIC AND WATER-QUALITY DATA FOR KAMAS VALLEY AND VICINITY, SUMMIT COUNTY, UTAH, 1997-2000

**By P.L. Haraden, L.E. Spangler, L.E. Brooks, and B.J. Stolp**

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**Salt Lake City, Utah**
**2001**

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

**GALE A. NORTON, Secretary**

U.S. GEOLOGICAL SURVEY

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

| Multiply | By | To obtain |
|---|---|---|
| acre-foot | 0.0001233 | cubic hectometer |
| | 1,233 | cubic meter |
| cubic foot per second | 0.02832 | cubic meter per second |
| | 448.8 | gallon per minute |
| foot | 0.3048 | meter |
| inch | 25.4 | millimeter |
| square mile | 2.590 | square kilometer |

The unit cubic foot per second ($ft^3/s$) is used in this report and also can be expressed as 1 $ft^3/s$ = 1.9835 acre-feet per day.

Water temperature is reported in degree Celsius (×°C) which can be converted to degree Fahrenheit (°F) by using the following equation:

$$°F = 9/5(×°C)+32.$$

**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.

Chemical concentration and water temperature are reported only in metric units. Chemical concentration in water is reported in milligrams per liter (mg/L), which expresses the solute weight per unit volume (liter) of water. For concentrations less than 7,000 milligrams per liter, the numerical value is about the same as for concentrations in parts per million (ppm). Specific conductance is reported in microsiemens per centimeter at 25 degrees Celsius (µS/cm). Gross alpha and gross beta concentrations in water are reported as picocuries per liter (pCi/L).

# SELECTED HYDROLOGIC AND WATER-QUALITY DATA FOR KAMAS VALLEY AND VICINITY, SUMMIT COUNTY, UTAH, 1997-2000

By P.L. Haraden, L.E. Spangler, L.E. Brooks, and B.J. Stolp

## INTRODUCTION

This report contains hydrologic and water-quality data collected in the Kamas Valley vicinity during a study from 1997 to 2000. The study area is in Summit County in north-central Utah and is part of the Middle Rocky Mountains Physiographic Province described by Fenneman (1931). Data were collected in Kamas Valley between the Uinta Mountains on the east and the West Hills on the west, the upper Weber River area, the Samak area along Beaver Creek, the Woodland area, and the Indian Hollow area. These areas, where population growth and water demand are concentrated, encompass about 70 square miles and include the Weber River, Beaver Creek, and Provo River drainages. Surface water is the dominant hydrologic resource. The combined average flow from these three drainages is about 345,000 acre-feet per year. Ground water is present in the unconsolidated deposits in Kamas Valley, in stream alluvium along Beaver Creek and the upper Weber River, and in the consolidated rocks surrounding Kamas Valley.

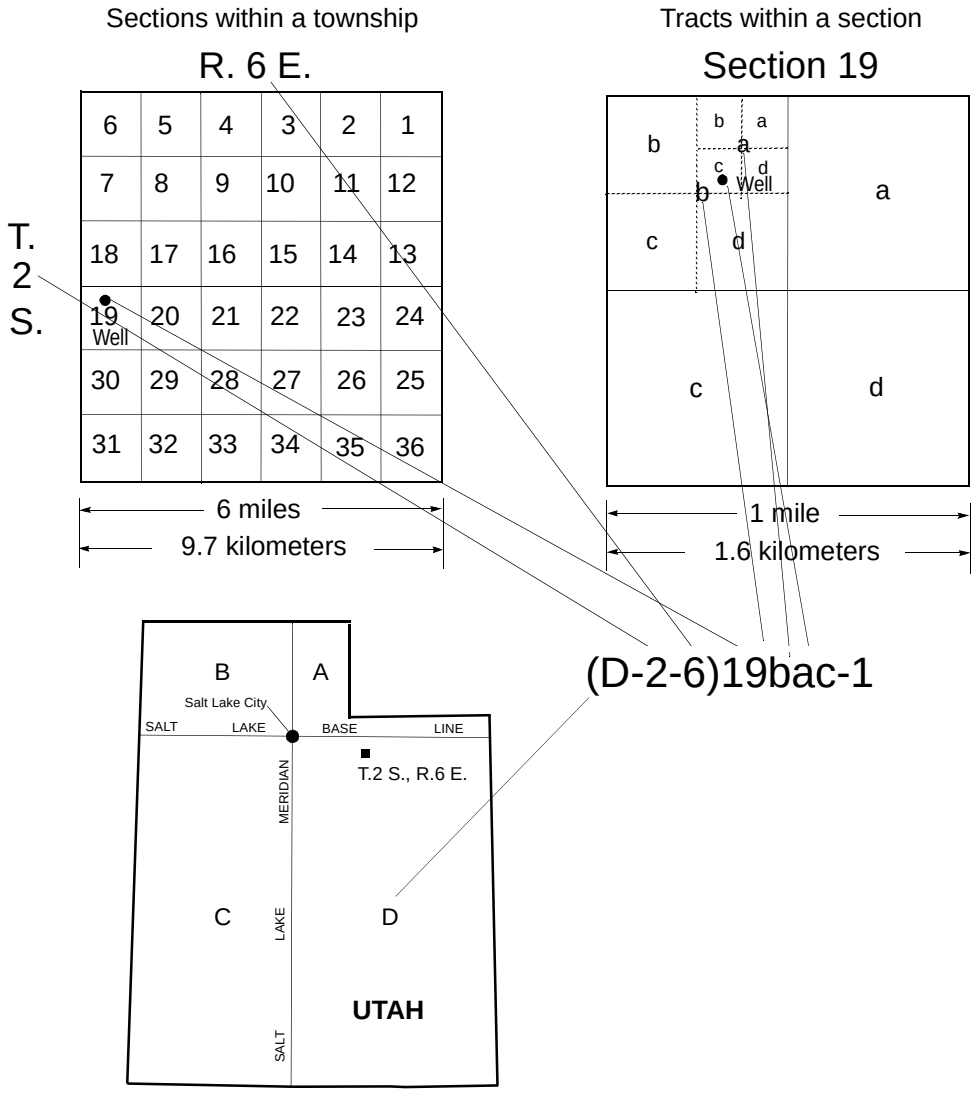
Kamas Valley and vicinity recently have been undergoing increasing residential development, in part the result of overflow from rapid development in the Park City and Snyderville Basin areas. In 1996, the population of Summit County was 23,988 (Shawn Eliot, Mountainland Association of Governments, written commun., 1998), an increase of 55 percent since 1990, and an increase of 135 percent since 1980. Much of that growth has been concentrated in the area around Park City, but with the construction of new highways into Kamas Valley and continued growth in Park City, development is increasing in Kamas Valley. Because the water needed to support this new development will probably come from ground water, one of the major concerns is water supply. Ground-water development has been and probably will continue to be limited to municipal and domestic use. Many households in the study area use private domestic wells and septic systems, and much of the new development is occurring outside of communities with municipal water and waste-water systems. In addition, land use is changing from agricultural to large-lot subdivisions, ranchettes, and summer homes. As new houses are built and new wells and septic systems are constructed, the public and agencies with water-management responsibilities are concerned about the effects of additional development on ground-water levels and water quality.

Concern about ground-water withdrawals prompted the Utah Department of Natural Resources, Division of Water Rights, to initiate a 4-year study of the ground- and surface-water resources in the Kamas Valley area in cooperation with the U.S. Geological Survey. Data were collected to better understand the hydrologic system in the area and to assess the effects of increased ground-water withdrawals on ground-water levels, discharge from springs, and surface-water flows. Because of water-quality concerns, the Utah Department of Environmental Quality, Division of Water Quality, provided additional funding to collect baseline water-quality data at selected ground- and surface-water sites. Data for this study could not have been collected without the cooperation of local residents and officials of water companies and municipalities, who permitted access to their wells, property, and well data.

### Purpose and Scope

This report contains the hydrologic data collected during the Kamas Valley study. The locations of selected ground- and surface-water sites are shown on plate 1. The numbering system used in Utah for hydrologic-data sites is shown in figure 1. Well-completion data for 96 wells are listed in table 1. Drillers' logs for selected wells are listed in table 2. Water levels for selected wells are listed in table 3. Continuous water levels were recorded at two wells for two separate time periods and are shown in figure 2. Discharge and drawdown data for selected wells are listed in table 4. Discharge, temperature, specific conductance, and pH measured at selected streams and springs are listed in

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 the Salt Lake 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 for a regular section[1]. The lowercase 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. When the serial number is not preceded by a letter, the number designates a well. When the serial number is preceded by an "S," the number designates a spring. A number having all three quarter designations but no serial number indicates a miscellaneous data site other than a well or spring, such as a location for a surface-water measurement site or tunnel portal. Thus, (D-2-6)19bac-1 designates the first well constructed or visited in the southwest 1/4 of the northeast 1/4 of the northwest 1/4 of section 19, T. 2 S., R. 6 E.




[1]Although the basic land unit, the section, is theoretically 1 square mile, many sections are irregular in size and shape. 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 system used for hydrologic-data sites in Utah.

table 5. Hydrographs of selected streams and springs are shown in figure 3. Discharge, temperature, and specific conductance of water from springs, streams, and canals measured during seepage studies are listed in table 6. Daily mean discharge of the creek in Indian Hollow is listed in table 7 and the hydrograph is shown in figure 4. Daily mean discharge of Beaver Creek at Lind Bridge, Beaver Creek at Grist Mill, Beaver Creek at Weber-Provo Diversion Canal, Beaver Creek diversion to Weber-Provo Diversion Canal, and Beaver Creek at Rocky Point, as provided by the Utah Department of Natural Resources, Division of Water Rights (2000), is shown in tables 8 through 12, respectively.

Ground-water data were collected from existing municipal and private wells and from new wells completed during the study. Ground-water sites were selected on the basis of well depth, location, aquifer, and available historic data. Some historic data have been provided for purposes of comparison, some of which were published previously by Baker (1970). Herbert and others (2000) provided data for three long-term surface-water monitoring sites in or near the study area: Weber River near Oakley, Utah (station 10128500), Provo River near Woodland, Utah (station 10154200), and Provo River near Hailstone, Utah (station 10155000).

Water samples were collected from 63 sites in Kamas Valley, along Beaver Creek, and along the upper Weber River from 1997 to 2000. Water samples were collected from 39 wells and springs and 24 surface-water sites. Of the surface-water sites sampled, 17 were selected for nitrate screening only. Water-quality data also are presented for 10 wells that are used for public supply (Kenneth Bousfield, Utah Division of Drinking Water, written commun., 2000). Additional water-quality data for the Kamas Valley area have been collected by the Utah Department of Agriculture and Food (Mark Quilter, oral commun., 2001). Physical properties measured and chemical constituents sampled for each site are summarized in table 13 and results of analyses for all samples are presented in tables 14 through 18.

## Analyses and Methods

Water samples collected during this study were analyzed for physical properties, major and minor ions, selected trace elements, nutrients, dissolved-solids concentration, dissolved organic carbon, methylene blue active substances (MBAS or surfactants), pesticides and herbicides, radionuclides, and total and fecal coliform bacteria. Procedures for the collection of water-quality data are described in Techniques of Water-Resources Investigations of the U.S. Geological Survey (Wilde and others, 1998-99). Physical properties (water temperature, pH, specific conductance), major ions, nutrients, dissolved organic carbon, MBAS, and total and fecal coliform bacteria were analyzed in water from all or most of the wells sampled. Nutrients were analyzed in water from all surface-water sites and nitrate was determined photometrically for selected sites. Nutrients analyzed included nitrogen (ammonia, nitrate, and nitrite) and phosphorus (total and orthophosphate). Trace elements were analyzed in water from 12 wells and 4 surface-water sites during the study. Trace elements were selected to correspond with the suite of metals established for drinking-water standards by the Utah Department of Environmental Quality (1995). In addition, boron, bromide, iron, and manganese were analyzed in water from virtually all sites sampled. Radionuclides (gross alpha and beta) were analyzed in water from nine wells, and pesticides and herbicides were analyzed in water from six wells and four surface-water sites during the study.

All water samples except total and fecal coliform bacteria were analyzed at the U.S. Geological Survey National Water Quality Laboratory (NWQL) in Denver, Colorado. Total and fecal coliform bacteria were analyzed at the Utah State Health Laboratory in Salt Lake City, Utah. Analytical methodology used at the NWQL is described in Techniques of Water-Resources Investigations of the U.S. Geological Survey (Fishman and Friedman, 1989).

Water samples were collected after the wells had been pumped for about 1 to 2 hours and water temperature, pH, and specific-conductance values were stable. Surface-water samples were collected mid-stream as grab samples. Water temperature, pH, specific conductance, and total alkalinity were determined in the field at the time of sample collection.

Four quality-assurance water samples were collected, processed, and submitted to the NWQL, along with routine water-quality samples collected during the study. Inorganic blank water samples were used to assess contamination during field processing of water samples. A field duplicate sample was collected to ensure consistency in the methods used to collect and analyze the water sample. Results of analysis for three inorganic blank samples and a duplicate sample are summarized in table 19.

Water levels in wells were measured with either an electrical sensor or a calibrated steel tape. Water-level measurements were made to the nearest 0.01 foot. Discharge from wells was determined by bucket and stopwatch. Stream discharge for flows less than about 0.50 cubic foot per second was measured with a 3-inch modified Parshall flume. Stream discharge for flows greater than 0.50 cubic foot per second was measured with a pygmy current meter. Methods for discharge measurements are outlined in Techniques of Water-Resources Investigations of the U.S. Geological Survey (Carter and Dividian, 1977; and Kilpatrick and Schneider, 1983).

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Because the information in the following table is presented on facing pages, this page is left blank.

**Table 1**. Records of selected wells in Kamas Valley and vicinity, Utah

[—, no data available]

Local well number: See figure 1 for an explanation of the numbering system used for hydrologic-data sites in Utah.
Site ID: A unique number identifying a site in the U.S. Geological Survey database, originally based upon latitude and longitude.
Primary use of water: P, public supply; H, domestic; U, unused; S, stock; I, irrigation.
Formation: TYNS, Thaynes Limestone; MGNY, Mahogany Formation; ALVM, unconsolidated deposits; KLVN, Kelvin Formation; KTLY, Formation; WEBR, Weber Sandstone; PLZC, Paleozoic carbonates; RDPN, Red Pine Shale.
Type of opening: P, perforated; F, perforated with gravel pack; X, open hole; G, screen with gravel pack; S, screen; O, open end.
Other data available: L, drillers' log in table 2; C, chemical analyses in tables 13-18; W, water-level measurements in table 3; D, discharge

| Local well number | Site ID | Owner | Year constructed | Primary use of water | Formation | Altitude of land surface (feet) |
|---|---|---|---|---|---|---|
| (A-1-7)27dcb-1 | 404719111082200 | Aspen Mountain Water Co. | 1973 | P | TYNS | 7,240 |
| (A-1-7)33bab-2 | 404703111094600 | Pine Mountains Mutual | 1974 | P | MGNY | 7,120 |
| (A-1-8)36bba-1 | 404708110594001 | Pettigrew, Margorie | 1984 | H | ALVM | 7,930 |
| (D-1-5)10dda-1 | 404442111212901 | Crandall, Curtis and Sherina | 1998 | U | KLVN | 6,100 |
| (D-1-5)13cdb-1 | 404346111195401 | Woolstenhulme, Darwin and Beulah | 1997 | H | ALVM | 6,420 |
| (D-1-5)15acb-1 | 404415111215501 | Simons, Scott | 1996 | H | KLVN | 6,197 |
| (D-1-5)15bda-1 | 404410111215101 | Simons, Scott | 1997 | H | KLVN | 6,256 |
| (D-1-5)21aca-1 | 404322111225301 | Green, Mark | 1999 | U | KTLY | 6,660 |
| (D-1-5)23dda-1 | 404253111201901 | Stembridge, Wendell | 1996 | H | ALVM | 6,220 |
| (D-1-5)25dbb-1 | 404217111193701 | Wright, Dale | 1995 | H | KTLY | 6,300 |
| (D-1-5)25dbd-1 | 404212111192501 | Wright, Dale | 1995 | S | ALVM | 6,310 |
| (D-1-6)15acc-1 | 404407111150001 | Wheelwright, Steven | 1998 | H | WDSD | 6,660 |
| (D-1-6)15acd-1 | 404410111145401 | Leonard, Larry | 1998 | U | TYNS | 6,650 |
| (D-1-6)15acd-2 | 404411111145001 | Fine, Lewis H. and Arlene | 1998 | U | TYNS | 6,650 |
| (D-1-6)16dbc-1 | 404356111161401 | Maple Ridge Ranches | 1998 | I | NGGT | 6,680 |
| (D-1-6)17cca-2 | 404351111174601 | Matheson, Robert | 1981 | U | KTLY | 6,590 |
| (D-1-6)17cdc-1 | 404345111173601 | Buxton, Dale and Susan | 1997 | H | KTLY | 6,570 |
| (D-1-6)18ddb-1 | 404351111180901 | Hunt, G. Robin | 1985 | H | ALVM | 6,560 |
| (D-1-6)19caa-1 | 404310111184101 | Alston, Karen | 1994 | H | KTLY | 6,460 |
| (D-1-6)19dbd-1 | 404302111181501 | Stevens, Jeff | 1981 | H | CONR | 6,450 |
| (D-1-6)19ddc-1 | 404249111181201 | Stevens, Teresa | — | U | ALVM | 6,410 |
| (D-1-6)20abb-1 | 404338111172201 | Call, John Reed | 1975 | H | — | 6,565 |
| (D-1-6)20bcb-1 | 404325111175401 | Querry, Julie | 1970 | U | KTLY | 6,521 |
| (D-1-6)21cbb-1 | 404311111164501 | Rydalch family | 1980 | H | ALVM | 6,514 |
| (D-1-6)22bdc-1 | 404318111151801 | Town of Oakley | 1997 | U | WDSD | 6,600 |

Keetley volcanics; WDSD, Woodside Formation; NGGT, Nugget Sandstone; CONR, unknown consolidated rock; HMBG, Humbug

and drawdown data in table 4.

| Local well number | Depth of well (feet) | Casing | | Type of opening | Top of open interval (feet) | Bottom of open interval (feet) | Water level | | Other data available |
|---|---|---|---|---|---|---|---|---|---|
| | | Diameter (inches) | Bottom (feet) | | | | Above (-) or below land surface (feet) | Date measured | |
| (A-1-7)27dcb-1 | 320 | 12 | 100 | P | 100 | 320 | — | — | L |
| | | 8 | 127 | | | | | | |
| | | 6 | 320 | | | | | | |
| (A-1-7)33bab-2 | 135 | 10 | 121 | P | 100 | 114 | — | — | L,C |
| (A-1-8)36bba-1 | 68 | 8 | 68 | P | 50 | 68 | — | — | L,C |
| (D-1-5)10dda-1 | 120 | 5 | 120 | F | 100 | 120 | 25.90 | 09-20-2000 | L,W |
| (D-1-5)13cdb-1 | 120 | 6 | 100 | X | 100 | 120 | 60.81 | 09-20-2000 | L,W,C |
| (D-1-5)15acb-1 | 430 | 6 | 225 | G | 195 | 225 | 59.43 | 09-25-2000 | W,D,C |
| | | 5 | 370 | S | 160 | 370 | | | |
| (D-1-5)15bda-1 | 360 | 5 | 350 | F | 190 | 350 | 158.80 | 02-03-2000 | L,W |
| (D-1-5)21aca-1 | 350 | 8 | 23 | P | 280 | 340 | 174.83 | 02-03-2000 | L,W |
| | | 6 | 340 | — | — | — | | | |
| (D-1-5)23dda-1 | 70 | 8 | 70 | O | — | — | 11.04 | 09-21-2000 | L,W,C |
| (D-1-5)25dbb-1 | 160 | 8 | 60 | P | 50 | 160 | 5.15 | 09-06-2000 | C |
| | | 5.5 | 160 | | | | | | |
| (D-1-5)25dbd-1 | 18 | 8 | 18 | O | — | — | 1.44 | 07-12-1999 | W |
| (D-1-6)15acc-1 | 140 | 8 | 60 | G | 80 | 140 | 40.31 | 08-20-1998 | W,D,C |
| | | 5.5 | 140 | | | | | | |
| (D-1-6)15acd-1 | 160 | 8 | 60 | P | 100 | 160 | 34.10 | 08-22-1998 | W |
| | | 5.5 | 160 | — | — | — | | | |
| (D-1-6)15acd-2 | 140 | 8 | 15 | S | 60 | 140 | 26.01 | 09-21-2000 | L,W |
| | | 6 | 140 | — | — | — | | | |
| (D-1-6)16dbc-1 | 200 | 6 | 190 | P | 150 | 190 | 164.39 | 09-21-2000 | L,W,C |
| (D-1-6)17cca-2 | 135 | 10 | 18 | P | 95 | 134 | 79.44 | 08-01-2000 | L,W,D |
| | | 6 | 135 | — | — | — | | | |
| (D-1-6)17cdc-1 | 92 | 8 | 51 | P | 57 | 87 | 39.05 | 05-12-1999 | W |
| | | 6 | 92 | — | — | — | | | |
| (D-1-6)18ddb-1 | 160 | 8 | 148 | P | 125 | 131 | — | — | L,C |
| (D-1-6)19caa-1 | 190 | 6 | 127 | S | 135 | 190 | 87.57 | 11-01-2000 | D |
| | | 4.5 | 190 | | | | | | |
| (D-1-6)19dbd-1 | 126 | 6 | 123 | X | 123 | 126 | — | — | C |
| (D-1-6)19ddc-1 | — | — | — | — | — | — | 13.50 | 09-20-2000 | W |
| (D-1-6)20abb-1 | 250 | 8 | 30 | P | 125 | 250 | 136.60 | 09-20-2000 | L,W |
| | | 6 | 70 | — | — | — | | | |
| | | 4 | 250 | — | — | — | | | |
| (D-1-6)20bcb-1 | 206 | 6 | 206 | P | 100 | 200 | 66.75 | 09-20-2000 | L,W,D |
| (D-1-6)21cbb-1 | 130 | 10 | 30 | O | — | — | 81.72 | 09-25-2000 | W,D,C |
| | | 8 | 130 | | | | | | |
| (D-1-6)22bdc-1 | 1000 | 20 | 120 | P | 180 | 208 | 58.79 | 09-21-2000 | L,W,D |
| | | 16 | 305 | P | 260 | 267 | | | |
| | | — | — | X | 305 | 1,000 | | | |

**Table 1**. Records of selected wells in Kamas Valley and vicinity, Utah—Continued

| Local well number | Site ID | Owner | Year constructed | Primary use of water | Formation | Altitude of land surface (feet) |
|---|---|---|---|---|---|---|
| (D-1-6)22cbb-1 | 404310111153701 | Dick, John | 1993 | S | ALVM | 6,570 |
| (D-1-6)22dbc-1 | 404304111150001 | Town of Oakley | 1998 | P | HMBG | 6,860 |
| (D-1-6)28cba-1 | 404219111163201 | Dick, John and Cassandra | 1999 | H | ALVM | 6,471 |
| (D-1-6)28cbc-1 | 404212111164601 | Atkinson, Clay and Shanna | 1998 | H | ALVM | 6,460 |
| (D-1-6)29cbd-1 | 404211111174601 | Struve, Preston | 1990 | S | ALVM | 6,410 |
| (D-1-6)29ccc-1 | 404157111175701 | Wagstaff, Douglas | 1993 | S | ALVM | 6,390 |
| (D-1-6)32daa-1 | 404123111165101 | Lewis, Travis and Stacie | 1996 | H | KTLY | 6,460 |
| (D-1-6)32dda-1 | 404112111165001 | Stembridge, Thayne | 1999 | U | ALVM | 6,450 |
| (D-1-6)33dba-1 | 404125111160001 | Packard, Troy and Susan | 1998 | H | ALVM | 6,560 |
| (D-1-6)33dba-2 | 404128111155701 | Marion Waterworks Company | 1992 | P | ALVM | 6,580 |
| (D-1-6)33dcc-1 | 404107111160801 | Marion Cemetery | — | I | — | 6,580 |
| (D-1-7)6abc-1 | 404602111120801 | Hidden Lake Association | 1992 | P | NGGT | 6,990 |
| (D-2-5)2cbd-1 | 404025111211301 | O'Very, Hal | 1995 | U | KTLY | 7,180 |
| (D-2-5)11bcd-1 | 403942111211501 | Scott, Ben | 1993 | H | KTLY | 6,960 |
| (D-2-5)11dcc-1 | 403922111204301 | Barnes, Van and Thelma | 1994 | H | KTLY | 6,770 |
| (D-2-5)13aaa-1 | 403914111191601 | Tercha, Bernadette | 1996 | H | KTLY | 6,505 |
| (D-2-5)13adc-1 | 403854111191601 | LaBronte, William | 1996 | H | KTLY | 6,462 |
| (D-2-5)13cad-1 | 403839111194301 | Walter, Richard and Deborah | 1994 | H | KTLY | 6,480 |
| (D-2-5)14daa-1 | 403847111201601 | Parsons, Bruce J. | 1993 | H | KTLY | 6,620 |
| (D-2-5)24ada-1 | 403802111190801 | Ure Dairy Farm | 1955 | H | ALVM | 6,440 |
| (D-2-6)3bac-1 | 404050111151901 | Henderson, Scott | 1997 | H | ALVM | 6,840 |
| (D-2-6)4dac-1 | 404027111155301 | Kamas Hills Limited | 1997 | U | ALVM | 6,554 |
| (D-2-6)4dad-1 | 404024111154501 | Kamas Hills Limited | 1997 | U | ALVM | 6,683 |
| (D-2-6)4dda-1 | 404021111154401 | Kamas Hills Limited | 1997 | U | ALVM | 6,732 |
| (D-2-6)5ada-1 | 404045111165701 | Wahlen, Nolan | 1999 | H | ALVM | 6,440 |
| (D-2-6)5dab-1 | 404031111170101 | Peterson, Chad and Kristy | 1999 | H | ALVM | 6,400 |
| (D-2-6)6bcc-1 | 404037111190401 | ReMillard, Mike | 1975 | H | CONR | 6,320 |
| (D-2-6)8ddd-1 | 403920111164901 | Kirkham, Nancy | 1998 | H | ALVM | 6,420 |
| (D-2-6)9bbb-1 | 404008111164701 | Brimhall, Robert and Karen | 1998 | H | ALVM | 6,390 |

| Local well number | Depth of well (feet) | Casing | | Type of opening | Top of open interval (feet) | Bottom of open interval (feet) | Water level | | Other data available |
|---|---|---|---|---|---|---|---|---|---|
| | | Diameter (inches) | Bottom (feet) | | | | Above (-) or below land surface (feet) | Date measured | |
| (D-1-6)22cbb-1 | 106 | 6 | 106 | O | — | — | 43.23 | 09-21-2000 | L,W,C |
| (D-1-6)22dbc-1 | 1,840 | 20 | 30 | G | 1,420 | 1,830 | (-) 61 | 10-13-1998 | L,C,D |
| | | 10 | 900 | | | | | | |
| | | 6 | 1830 | | | | | | |
| (D-1-6)28cba-1 | 120 | 5 | 120 | F | 100 | 120 | 14.07 | 07-17-2000 | D |
| (D-1-6)28cbc-1 | 120 | 5 | 120 | P | 100 | 120 | 4.95 | 08-05-1999 | W,C |
| (D-1-6)29cbd-1 | 118 | 8 | 118 | O | — | — | 3.61 | 05-16-2000 | L,W,D |
| (D-1-6)29ccc-1 | 119 | 6 | 119 | O | — | — | — | — | D,C |
| (D-1-6)32daa-1 | 120 | 5 | 120 | P | 90 | 120 | — | — | C |
| (D-1-6)32dda-1 | 120 | 6 | 120 | P | 110 | 120 | 55.01 | 09-21-2000 | L,W |
| (D-1-6)33dba-1 | 250 | 5 | 250 | G | 230 | 250 | 97.35 | 09-08-1999 | L,W |
| (D-1-6)33dba-2 | 246 | 12 | 130 | P | 145 | 238 | — | — | C |
| | | 8 | 141 | S | 166 | 246 | | | |
| | | 6 | 246 | | | | | | |
| (D-1-6)33dcc-1 | — | 8 | — | — | — | — | 145.25 | 09-25-2000 | W |
| (D-1-7)6abc-1 | 300 | 8 | 240 | P | 115 | 119 | — | — | L,C |
| | | | | P | 200 | 235 | | | |
| (D-2-5)2cbd-1 | 465 | 8 | 55 | G | 205 | 265 | 392.50 | 09-25-2000 | L,W |
| | | 5.5 | 265 | X | 265 | 465 | | | |
| (D-2-5)11bcd-1 | 240 | 5 | 240 | F | 180 | 240 | 106.99 | 09-25-2000 | L,W |
| (D-2-5)11dcc-1 | 160 | 5 | 160 | P | 140 | 160 | 27.8 | 07-12-1999 | L,C |
| (D-2-5)13aaa-1 | 325 | 5 | 325 | G | 180 | 325 | 124.57 | 02-04-2000 | L,W,D |
| (D-2-5)13adc-1 | 276 | 5 | 270 | F | 140 | 270 | 95.15 | 09-25-2000 | L,W,D |
| (D-2-5)13cad-1 | 270 | 5 | 270 | P | 250 | 270 | — | — | L,C |
| (D-2-5)14daa-1 | 262 | 5 | 255 | F | 218 | 258 | 43.90 | 09-25-2000 | L,W |
| (D-2-5)24ada-1 | 58 | 12 | 30 | O | — | — | — | — | L,C |
| | | 6.25 | 58 | | | | | | |
| (D-2-6)3bac-1 | 450 | 5.5 | 360 | F | 10 | 80 | — | — | L,C |
| | | | | X | 360 | 450 | | | |
| (D-2-6)4dac-1 | 225 | 8 | 190 | X | 190 | 225 | 57.19 | 01-24-2000 | W,C |
| (D-2-6)4dad-1 | 385 | 8 | 109 | X | 365 | 385 | 54.56 | 09-21-2000 | W,C |
| | | 6 | 365 | | | | | | |
| (D-2-6)4dda-1 | 400 | 8 | 109 | G | 368 | 380 | 103.71 | 09-25-2000 | L,W |
| | | 6 | 385 | | | | | | |
| (D-2-6)5ada-1 | 100 | 8 | 100 | P | 80 | 100 | 29.25 | 06-22-2000 | D |
| (D-2-6)5dab-1 | 120 | 5 | 120 | F | 100 | 120 | 17.08 | 07-13-2000 | D |
| (D-2-6)6bcc-1 | 125 | 8 | 30 | P | 100 | 125 | 11.98 | 03-06-2000 | L,W,C |
| | | 6 | 125 | | | | | | |
| (D-2-6)8ddd-1 | 120 | 6 | 120 | P | 110 | 120 | 2.61 | 08-06-1999 | L,C,W |
| (D-2-6)9bbb-1 | 120 | 5 | 120 | G | 100 | 120 | 6.36 | 11-03-1999 | L,W,C |

**Table 1**. Records of selected wells in Kamas Valley and vicinity, Utah—Continued

| Local well number | Site ID | Owner | Year constructed | Primary use of water | Formation | Altitude of land surface (feet) |
|---|---|---|---|---|---|---|
| (D-2-6)16cda-1 | 403831111161401 | Town of Kamas/Simpson Well | 1973 | P | WEBR | 6,520 |
| (D-2-6)16ddb-1 | 403833111155201 | Town of Kamas/Hillside Well | 1991 | P | WEBR | 6,660 |
| (D-2-6)19bac-1 | 403812111184501 | Lambert, George | 1964 | S | ALVM | 6,420 |
| (D-2-6)20ccc-1 | 403732111175501 | Lambert, Walden | 1893 | U | ALVM | 6,460 |
| (D-2-6)20dcc-1 | 403731111172101 | McCullough Investment Co. | 1975 | — | ALVM | 6,491 |
| (D-2-6)21cdd-1 | 403732111162001 | Buckley, Jack | 1977 | U | ALVM | 6,524 |
| (D-2-6)21dcc-1 | 403732111161101 | Goodworth, Vicki | 1999 | H | ALVM | 6,533 |
| (D-2-6)21dcc-2 | 403732111161001 | Rider, Sam and Jessica | 2000 | H | ALVM | 6,532 |
| (D-2-6)21dcd-1 | 403732111160301 | Stembridge, Glayde | 2000 | H | WEBR | 6,537 |
| (D-2-6)21ddb-1 | 403742111155201 | Peterson, Howard and Susan | 1996 | U | WEBR | 6,575 |
| (D-2-6)23ccd-1 | 403731111142101 | Darling, Travis | 1996 | H | PLZC | 6,700 |
| (D-2-6)25aad-1 | 403721111121601 | Turner, Diana | 1999 | S | RDPN | 6,910 |
| (D-2-6)25caa-1 | 403658111125001 | Saunders, Wallace | 1964 | H | ALVM | 6,830 |
| (D-2-6)25dba-1 | 403658111123401 | Schilling, Bo/Scheer, Barb | 1998 | H | PLZC | 6,870 |
| (D-2-6)26aad-1 | 403726111135401 | Smith, Dale | 1965 | S | ALVM | 6,790 |
| (D-2-6)26abb-1 | 403720111132401 | Butcher, Kathlene | 1995 | H | CONR | 6,740 |
| (D-2-6)26abc-1 | 403721111135001 | Samak Country Estates | 1984 | P | WEBR | 6,760 |
| (D-2-6)26bad-2 | 403719111135501 | Prather, Rick and Penny | 1995 | U | WEBR | 6,820 |
| (D-2-6)27cbc-1 | 403655111153701 | Hallum, Elva | 1951 | H | ALVM | 6,611 |
| (D-2-6)27ccc-1 | 403639111153701 | Prescott, Max | 1948 | U | ALVM | 6,620 |
| (D-2-6)27ccd-1 | 403640111152401 | Francis Town Water System | 1979 | P | WEBR | 6,720 |
| (D-2-6)28aab-3 | 403725111155201 | Peterson, Howard and Susan | 1998 | U | WEBR | 6,571 |
| (D-2-6)28add-1 | 403710111154001 | Gines, Lynette | 1997 | U | WEBR | 6,622 |
| (D-2-6)28ccc-3 | 403639111164601 | Atkinson, Kay | — | U | ALVM | 6,559 |

| Local well number | Depth of well (feet) | Casing | | Type of opening | Top of open interval (feet) | Bottom of open interval (feet) | Water level | | Other data available |
|---|---|---|---|---|---|---|---|---|---|
| | | Diameter (inches) | Bottom (feet) | | | | Above (-) or below land surface (feet) | Date measured | |
| (D-2-6)16cda-1 | 420 | 20 | 20 | P | 40 | 120 | 46.29 | 09-20-2000 | L,C,W,D |
| | | 16 | 126 | P | 124 | 233 | | | |
| | | 12 | 281 | P | 252 | 272 | | | |
| | | | | X | 281 | 420 | | | |
| (D-2-6)16ddb-1 | 245 | 10 | 93 | X | 93 | 245 | — | — | C |
| (D-2-6)19bac-1 | 40 | 12 | 40 | P | 30 | 40 | 6.43 | 09-25-2000 | W,D |
| (D-2-6)20ccc-1 | 10 | — | — | — | — | — | 2.88 | 03-29-1984 | W |
| (D-2-6)20dcc-1 | 124 | 8 | 62 | P | 118 | 123 | 2.19 | 08-31-2000 | W |
| | | 6 | 124 | | | | | | |
| (D-2-6)21cdd-1 | 102 | 6 | 102 | P | 97 | 102 | 1.91 | 09-20-2000 | L,W,D |
| (D-2-6)21dcc-1 | 120 | 8 | 120 | P | 100 | 120 | 5.86 | 07-03-2000 | W |
| | | 4.5 | 120 | S | 100 | 120 | | | |
| (D-2-6)21dcc-2 | 120 | 8 | 120 | P | 98 | 118 | 6.85 | 10-05-2000 | W,D |
| | | 4.5 | 118 | S | 98 | 118 | | | |
| (D-2-6)21dcd-1 | 102 | 6 | 100 | P | 80 | 100 | 9.27 | 10-05-2000 | L,W |
| (D-2-6)21ddb-1 | 140 | 8 | 40 | S | 100 | 140 | 57.22 | 07-12-1999 | L,W,C |
| | | 5 | 140 | | | | | | |
| (D-2-6)23ccd-1 | 323 | 6 | 260 | S | 260 | 270 | -71 | 08-31-2000 | C |
| | | 4.5 | 310 | S | 310 | 320 | | | |
| (D-2-6)25aad-1 | 120 | 5 | 120 | P | 100 | 120 | — | — | L,C |
| (D-2-6)25caa-1 | 105 | 6 | 105 | P | 96 | 101 | — | — | L,C |
| (D-2-6)25dba-1 | 158 | 5 | 135 | P | 115 | 135 | 84.72 | 08-29-2000 | L,D,C |
| (D-2-6)26aad-1 | 56 | 8 | 18 | P | — | — | 12 | 10-01-1965 | C |
| | | 6 | 56 | | | | | | |
| (D-2-6)26abb-1 | 130 | 8 | 130 | P | 110 | 130 | — | — | C |
| | | 5 | — | | | | | | |
| (D-2-6)26abc-1 | 300 | 16 | 80 | P | 125 | 135 | — | — | L,C,D |
| | | 12 | 140 | P | 225 | 235 | | | |
| | | 8 | 254 | P | 280 | 300 | | | |
| | | 6 | 300 | | | | | | |
| (D-2-6)26bad-2 | 215 | 6 | 215 | P | 150 | 215 | 120.86 | 08-31-2000 | L,W |
| (D-2-6)27cbc-1 | 42 | 6 | 42 | O | — | — | 6.04 | 07-12-1999 | W |
| (D-2-6)27ccc-1 | 55 | 4 | 55 | O | — | — | .33 | 09-20-2000 | L,W,C |
| (D-2-6)27ccd-1 | 507 | 16 | 200 | S | 444 | 504 | — | — | C,D |
| | | 10.75 | 343 | | | | | | |
| | | 8.6 | 504 | | | | | | |
| (D-2-6)28aab-3 | 85 | 8 | 50 | G | 65 | 85 | 31.17 | 10-05-2000 | L,W |
| | | 5 | 85 | | | | | | |
| (D-2-6)28add-1 | 140 | 6 | 80 | P | 100 | 140 | 35.02 | 09-25-2000 | L,W,D |
| | | 4.5 | 140 | | | | | | |
| (D-2-6)28ccc-3 | 30 | 12 | — | — | — | — | 17.66 | 09-25-2000 | W |

**Table 1**. Records of selected wells in Kamas Valley and vicinity, Utah—Continued

| Local well number | Site ID | Owner | Year constructed | Primary use of water | Formation | Altitude of land surface (feet) |
|---|---|---|---|---|---|---|
| (D-2-6)28ddc-2 | 403639111155501 | Rhodes, Craig | — | U | ALVM | 6,599 |
| (D-2-6)29ada-1 | 403713111165101 | White, E.R. and D.J. | — | I | ALVM | 6,529 |
| (D-2-6)29bcb-1 | 403715111175001 | Mitchell, Chad | 1998 | H | ALVM | 6,476 |
| (D-2-6)29dcd-1 | 403639111170901 | Atkinson, Austin | — | U | ALVM | 6,543 |
| (D-2-6)29ddd-2 | 403642111164901 | Prescott, Glade | — | U | ALVM | 6,555 |
| (D-2-6)33abb-1 | 403638111160401 | Crittenden, Bill | 1961 | U | ALVM | 6,599 |
| (D-2-6)33ada-1 | 403616111154001 | Bates, Robert | 1960 | U | ALVM | 6,624 |
| (D-2-6)33cab-1 | 403610111162901 | Rockhill, Craig | 1996 | H | ALVM | 6,590 |
| (D-2-6)33cbb-1 | 403608111164601 | Atkinson, Eva | 1955 | U | ALVM | 6,581 |
| (D-2-6)34acc-1 | 403612111145801 | Munford, Edward and Taunya | 1997 | U | WEBR | 6,725 |
| (D-2-6)34cbc-2 | 403558111153701 | Simmons, Doyle | 1950 | U | ALVM | 6,642 |
| (D-2-6)34dcc-1 | 403546111145901 | Fitzgerald, Mont B. | 1980 | I | ALVM | 6,684 |
| (D-2-6)34dcd-1 | 403548111144701 | Anderson, Ryan | 2000 | H | KTLY | 6,690 |
| (D-3-6)1ccd-1 | 403456111130401 | Woodland Town Water System | 1995 | P | WEBR | 6,860 |
| (D-3-6)2dbb-1 | 403516111135701 | Elk Meadows Subdivision (Woodland) | 1998 | H | ALVM | 6,760 |
| (D-3-6)2dcd-1 | 403458111134301 | Woodland Hills Subdivision | 1977 | P | WEBR | 6,160 |
| (D-3-6)3bdb-1 | 403527111151401 | Boyack, Kimball and Koreen | 1995 | U | ALVM | 6,688 |
| (D-3-6)4aad-1 | 403535111154101 | Blackett, Dennis | 1996 | I | ALVM | 6,640 |

| Local well number | Depth of well (feet) | Casing | | Type of opening | Top of open interval (feet) | Bottom of open interval (feet) | Water level | | Other data available |
|---|---|---|---|---|---|---|---|---|---|
| | | Diameter (inches) | Bottom (feet) | | | | Above (-) or below land surface (feet) | Date measured | |
| (D-2-6)28ddc-2 | 21 | 24 | 21 | — | — | — | 11.44 | 02-16-1999 | W |
| (D-2-6)29ada-1 | 11 | — | — | — | — | — | 4.16 | 09-25-2000 | W,C |
| (D-2-6)29bcb-1 | 290 | 8 | 84 | P | 200 | 240 | 25.70 | 11-28-2000 | L,W,D,C |
| | | 6 | 240 | X | 240 | 290 | | | |
| (D-2-6)29dcd-1 | — | — | — | — | — | — | 51.59 | 09-25-2000 | W |
| (D-2-6)29ddd-2 | — | — | — | — | — | — | 19.56 | 02-16-1999 | W |
| (D-2-6)33abb-1 | 55 | 6 | 55 | O | — | — | 4.97 | 09-25-2000 | W,D |
| (D-2-6)33ada-1 | 60 | 6 | 60 | O | — | — | 17.93 | 10-05-2000 | W |
| (D-2-6)33cab-1 | 190 | 5 | 190 | P | 150 | 190 | — | — | L,C |
| (D-2-6)33cbb-1 | 107 | 6 | 107 | O | — | — | 49.81 | 09-25-2000 | W |
| (D-2-6)34acc-1 | 165 | 5 | 162 | F | 122 | 162 | 122.27 | 02-03-2000 | L,W,D |
| (D-2-6)34cbc-2 | 69 | 6 | 69 | O | — | — | 29.53 | 09-25-2000 | W |
| (D-2-6)34dcc-1 | 104 | 6 | 73 | P | 80 | 104 | 36.32 | 09-25-2000 | L,W |
| | | 4 | 104 | | | | | | |
| (D-2-6)34dcd-1 | 130 | 6.6 | 84 | P | 57 | 70 | 11.38 | 07-25-2000 | D,C |
| (D-3-6)1ccd-1 | 300 | 12.5 | 76 | — | — | — | — | — | C |
| | | 10 | 101 | | | | | | |
| (D-3-6)2dbb-1 | 180 | 8 | 100 | P | 80 | 100 | — | — | L,C |
| | | 6 | 180 | P | 140 | 180 | | | |
| (D-3-6)2dcd-1 | 330 | 16 | 100 | P | 135 | 145 | — | — | C |
| | | 10 | 175 | X | 175 | 330 | | | |
| (D-3-6)3bdb-1 | 100 | 6 | 100 | P | 80 | 100 | 62.33 | 09-25-2000 | L,W |
| (D-3-6)4aad-1 | 180 | 5 | 180 | P | 150 | 180 | — | — | L,C |

**Table 2.** Drillers' logs of selected wells in Kamas Valley and vicinity, Utah

[See figure 1 for an explanation of the numbering system used for hydrologic-data sites in Utah; gal/min, flow in gallons per minute; ft, feet; in., inch]

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

| Lithology | Thickness | Depth |
|---|---|---|
| **(A-1-7)27dcb-1** | | |
| **Log by Gardner Drilling Co.** | | |
| Black loam | 6 | 6 |
| Silt, gravel, boulders | 19 | 25 |
| Gravel, boulders, white clay | 10 | 35 |
| Silt, gravel, boulders | 30 | 65 |
| Gravel, boulders, small water | 3 | 68 |
| Gravel, boulder, clay mixed | 17 | 85 |
| Gravel, boulders | 5 | 90 |
| Conglomerate | 18 | 108 |
| Conglomerate, white clay mixed | 12 | 120 |
| Limestone, fractured | 75 | 195 |
| Limestone, hard | 5 | 200 |
| **Log by Dave's Drilling (deepened)** | | |
| Fractured limestone | 100 | 300 |
| Solid limestone | 20 | 320 |
| **(A-1-7)33bab-2** | | |
| **Log by J.S. Lee and Sons** | | |
| Clay, sand, gravel, top soil | 2 | 2 |
| Boulders | 76 | 78 |
| Gravel, boulders, carrying water | 36 | 114 |
| Bedrock, red shale | 21 | 135 |
| **(A-1-8)36bba-1** | | |
| **Log by Dave's Drilling** | | |
| Clay | 5 | 5 |
| Cobbles, boulders | 5 | 10 |
| Cobbles, boulders | 10 | 20 |
| Clay | 5 | 25 |
| Cobbles, boulders | 10 | 35 |
| Cobbles, boulders, water | 10 | 45 |
| Cobbles, boulders | 23 | 68 |
| **(D-1-5)10dda-1** | | |
| **Log by Magill Drilling Co. Inc.** | | |
| Clay, brown | 23 | 23 |
| Gravel, cobbles, boulders | 21 | 44 |
| Bedrock, gray, hard | 18 | 62 |
| Clay, red, sticky | 16 | 78 |
| Sandstone, red, mixed with clay layers | 42 | 120 |
| **(D-1-5)13cdb-1** | | |
| **Log by Miller Drilling** | | |
| Silt, sand, brown | 1 | 1 |
| Clay, silt, sand, gravel, cobbles, tan | 37 | 38 |
| Silt, gravel, cobbles, tan, water at 95 ft | 82 | 120 |

| Lithology | Thickness | Depth |
|---|---|---|
| **(D-1-5)15bda-1** | | |
| **Log by Huntsman Drilling** | | |
| Clay, silt, yellow | 45 | 45 |
| Volcanics, yellow | 50 | 95 |
| Shale, sandstone, red, purple, layered | 110 | 205 |
| Clay, shale, sandstone, gray, layered | 20 | 225 |
| Shale, multicolor, red, gray, orange, water | 75 | 300 |
| Shale, multicolor | 50 | 350 |
| Shale, multicolor, white | 10 | 360 |
| **(D-1-5)21aca-1** | | |
| **Log by Zimmerman Well Service** | | |
| Clay | 3 | 3 |
| Volcanics, brown | 48 | 51 |
| Volcanics, light brown | 7 | 58 |
| Volcanics, yellow | 2 | 60 |
| Volcanics, brown | 42 | 102 |
| Volcanics, yellow | 169 | 271 |
| Volcanics, gray | 79 | 350 |
| Fractured at 324-340 ft, 100 gal/min at 350 ft | | |
| **(D-1-5)23dda-1** | | |
| **Log by Schofield Drilling** | | |
| Topsoil | 1 | 1 |
| Sand, gravel, cobbles | 9 | 10 |
| Sand, gravel, cobbles, small amount of clay | 30 | 40 |
| Sand, gravel, cobbles, water | 30 | 70 |
| **(D-1-6)15acd-2** | | |
| **Log by Exterra** | | |
| Cobbles, boulders | 60 | 60 |
| Quartzite, gray, water | 40 | 100 |
| Shale, red | 20 | 120 |
| Quartize, gray, water | 20 | 140 |
| **(D-1-6)16dbc-1** | | |
| **Log by Schofield Drilling** | | |
| Clay, gravel, cobbles, boulders | 20 | 20 |
| Clay | 10 | 30 |
| Clay, gravel | 10 | 40 |
| Sandstone, red | 55 | 95 |
| Sandstone, red, busted up | 5 | 100 |
| Sandstone, red | 70 | 170 |
| Sandstone, red, water | 30 | 200 |
| **(D-1-6)17cca-2** | | |
| **Log by Doxey Drilling** | | |
| Clay, cobbles, dark | 20 | 20 |
| Cobbles, lava | 10 | 30 |
| Hardpan, some water at 30 ft. | 10 | 40 |
| Gravel, cobbles, lava, more water | 10 | 50 |
| Clay, cobbles | 10 | 60 |
| Shale, light color | 20 | 80 |

**Table 2.** Drillers' logs of selected wells in Kamas Valley and vicinity, Utah—Continued

| Lithology | Thickness | Depth |
|---|---|---|
| **(D-1-6)17cca-2—Continued** | | |
| Clay, gravel, gray | 10 | 90 |
| Cobbles, shale | 10 | 100 |
| Shale, water | 10 | 110 |
| Clay, gravel, tan | 10 | 120 |
| Cobbles, reddish, more water | 10 | 130 |
| Gravel, cobbles, hard | 8 | 138 |
| **(D-1-6)18ddb-1** | | |
| **Log by Huntsman Drilling** | | |
| Clay, top soil | 2 | 2 |
| Clay, sand, gravel, cobbles | 38 | 40 |
| Clay, sand, gravel | 20 | 60 |
| Clay, sand, gravel, water | 40 | 100 |
| Clay, sand | 20 | 120 |
| Clay, sand, hardpan | 7 | 127 |
| Clay, sand, gravel, water | 10 | 137 |
| Clay, sand, hardpan, water | 3 | 140 |
| Clay, sand, water | 5 | 145 |
| Clay, sand | 15 | 160 |
| **(D-1-6)20abb-1** | | |
| **Log by Petersen Brothers Drilling Co.** | | |
| Silt, topsoil | 2 | 2 |
| Clay, sand, gravel | 16 | 18 |
| Gravel, cobbles, boulders | 22 | 40 |
| Clay, gravel, red | 35 | 75 |
| Clay, red | 5 | 80 |
| Conglomerate, red | 40 | 120 |
| Sandstone, red, some water | 74 | 194 |
| Sandstone, white, some water | 21 | 215 |
| Conglomerate, broken areas, water bearing | 35 | 250 |
| **(D-1-6)20bcb-1** | | |
| **Log by Petersen Brothers Drilling Co.** | | |
| Clay, silt, topsoil | 4 | 4 |
| Clay, gravel, cobbles | 23 | 27 |
| Clay | 15 | 42 |
| Clay, cobbles, tight | 54 | 96 |
| Clay, conglomerate | 5 | 101 |
| Sandstone, water bearing at 126-198 ft | 99 | 200 |
| **(D-1-6)22bdc-1** | | |
| **Log by Water Well Services** | | |
| Topsoil, black | 6 | 6 |
| Clay, silt, cobbles, boulders, brown, water at 47 ft | 110 | 116 |
| Clay, very fine, gravel, brown | 51 | 167 |
| Clay, silt, gravel, cobbles, brown | 41 | 208 |
| Clay, sticky, fine gravel, brown | 14 | 222 |
| Clay, gravel, gray, in lenses | 38 | 260 |
| Gravel, cemented | 7 | 267 |
| Clay, brown and gray | 28 | 295 |
| Mudrock, brown, layers of hard and soft | 47 | 342 |
| Hard rock, red and gray | 44 | 386 |
| Limestone, red and gray, hard | 101 | 487 |
| Woodside Shale, red | 513 | 1,000 |

| Lithology | Thickness | Depth |
|---|---|---|
| **(D-1-6)22cbb-1** | | |
| **Log by Zimmerman Well Service** | | |
| Sand, gravel, cobbles, boulders, red | 8 | 8 |
| Sand, and gravel, red | 4 | 12 |
| Sand, gravel, cobbles, brown | 31 | 43 |
| Sand, gravel, cobbles, red water at 58 ft, 2 gal/min | 43 | 86 |
| Sand, gravel, cobbles, red, 40 gal/min | 22 | 108 |
| **(D-1-6)22dbc-1** | | |
| **Log by Lang Exploratory Drilling** | | |
| Orthoquartzite, gray and brown, Weber formation | 300 | 300 |
| Quartzite, limestone, gray, Weber formation | 220 | 520 |
| Claystone, maroon and brown, Morgan formation | 357 | 877 |
| Shale, maroon, gray, and brown, Round Valley formation | 413 | 1,290 |
| Shale, carbonaceous, gray and black, Doughnut formation | 460 | 1,750 |
| Limestone, gray and black, Humbug formation | 90 | 1,840 |
| **(D-1-6)29cbd-1** | | |
| **Log by 5/B Drilling** | | |
| Topsoil, boulders | 30 | 30 |
| Sand, fine, gravel and boulders | 20 | 50 |
| Gravel, boulders, hard drilling | 30 | 80 |
| Sand, fine, gravel, and boulders | 20 | 100 |
| Sand, gravel, coarse | 18 | 118 |
| Gravel, coarse | 6 | 124 |
| **(D-1-6)32dda-1** | | |
| **Log by Schofield Drilling** | | |
| Topsoil, black | 2 | 2 |
| Sand, gravel | 23 | 25 |
| Clay, sand, gravel | 15 | 40 |
| Sand, gravel | 25 | 65 |
| Clay, sand, gravel | 30 | 95 |
| Clay | 10 | 105 |
| Sand, gravel, water | 15 | 120 |
| **(D-1-6)33dba-1** | | |
| **Log by Magill Drilling Co. Inc.** | | |
| Clay, gravel, cobbles, boulders | 30 | 30 |
| Basalt, mixed with small clay layers, black and red | 26 | 56 |
| Clay, sandy, red | 7 | 63 |
| Gravel, cobbles, boulders, mixed with small clay layers, red | 93 | 156 |
| Clay, red | 8 | 164 |
| Gravel, cobbles, boulders mixed with clay layers, yellow, red | 12 | 176 |
| Bedrock | 3 | 179 |
| Gravel, cobbles, boulders mixed with small clay layers, red, yellow | 7 | 186 |

**Table 2.** Drillers' logs of selected wells in Kamas Valley and vicinity, Utah—Continued

| Lithology | Thickness | Depth |
|---|---|---|
| **(D-1-6)33dba-1—Continued** | | |
| Clay, sticky, red | 6 | 192 |
| Clay, gravel, cobbles, boulders | 58 | 250 |
| **(D-1-7)6abc-1** | | |
| **Log by Fenhaus Drilling** | | |
| Black dirt | 6 | 6 |
| Clay, red | 09 | 15 |
| Cobbles | 1 | 16 |
| Clay, gravel | 2 | 18 |
| Hardpan | 1 | 19 |
| Clay | 1 | 20 |
| Red clay | 15 | 35 |
| Reddish sandstone | 20 | 55 |
| Broken sandstone | 15 | 70 |
| Red clay | 23 | 93 |
| Broken sandstone, black/grey | 14 | 107 |
| Softer red sandstone, 12 gal/min at 160 ft | 59 | 166 |
| Hard red sandstone, 35-45 gal/min at 220 ft | 134 | 300 |
| **(D-2-5)2cbd-1** | | |
| **Log by Zimmerman Well Service** | | |
| Clay, brown-red | 25 | 25 |
| Clay, gravel, red | 11 | 36 |
| Clay, brown-red | 16 | 52 |
| Other, gray | 38 | 90 |
| Sandstone, brown | 12 | 102 |
| Sandstone, brown with red clay | 103 | 205 |
| Sand, brown | 50 | 255 |
| Sand, black | 35 | 290 |
| Sand, brown | 115 | 405 |
| Sand, gray, black, fractured | 60 | 465 |
| **(D-2-5)11bcd-1** | | |
| **Log by Huntsman Drilling** | | |
| Volcanics, gray, intrusive | 80 | 80 |
| Volcanics, light gray, intrusive | 55 | 135 |
| Volcanics, gray, intrusive | 45 | 180 |
| Volcanics, dark gray, intrusive, water | 37 | 217 |
| Volcanics, red, brown, gray, orange, intrusive, water | 25 | 242 |
| **(D-2-5)11dcc-1** | | |
| **Log by Huntsman Drilling** | | |
| Volcanic, gray, basalt | 60 | 60 |
| Volcanic, gray, basalt, conglomerate | 60 | 120 |
| Volcanic, multicolor, basalt, conglomerate | 20 | 140 |
| Water, volcanic, multicolor, basalt, conglomerate | 20 | 160 |
| **(D-2-5)13aaa-1** | | |
| **Log by Huntsman Drilling** | | |
| Clay, silt, sand, volcanic, gray, cemented | 25 | 25 |
| Clay, sand, volcanic, gray, cemented | 45 | 70 |
| Clay, silt, sand, boulders, volcanic, gray, cemented | 110 | 180 |
| **(D-2-5)13aaa-1—Continued** | | |
| Sand, volcanic, gray, cemented, water, 2 gal/min | 7 | 187 |
| Clay, silt, sand, boulder, volcanic, cemented | 43 | 230 |
| Silt, sand, volcanic, cemented | 75 | 305 |
| Silt, sand, boulders, volcanic, cemented, water | 20 | 325 |
| **(D-2-5)13adc-1** | | |
| **Log by Huntsman Drilling** | | |
| Sand, basalt, gray | 5 | 5 |
| Basalt, gray | 110 | 115 |
| Basalt, gray, fractured with sand, water | 161 | 276 |
| **(D-2-5)13cad-1** | | |
| **Log by Huntsman Drilling** | | |
| Clay, silt, volcanic, light brown, volcanic tuff | 20 | 20 |
| Clay, silt, sand, volcanic, gray, volcanic tuff | 20 | 40 |
| Clay, silt, sand, volcanic, gray, volcanic tuff | 50 | 90 |
| Clay, silt, sand volcanic, gray, volcanic tuff | 60 | 150 |
| Volcanic, gray, basalt, fractured | 60 | 210 |
| Volcanic, gray, basalt, fractured | 50 | 260 |
| Water, volcanic, gray, basalt, fractured | 10 | 270 |
| **(D-2-5)14daa-1** | | |
| **Log by Huntsman Drilling** | | |
| Volcanic tuff, gray | 20 | 20 |
| Volcanic, yellow, with clay, silt, sand | 55 | 75 |
| Volcanic tuff with boulders, gray | 85 | 160 |
| Volcanic tuff, gray | 6 | 166 |
| Volcanic tuff with boulders, gray | 84 | 250 |
| Volcanic tuff with boulders, gray, with water | 12 | 262 |
| **(D-2-5)24ada-1** | | |
| **Log by Uinta Basin Drilling Co.** | | |
| Water, gravel, sand, boulders | 58 | 58 |
| **(D-2-6)3bac-1** | | |
| **Log by Exterra** | | |
| Clay, silt, boulder, red | 10 | 10 |
| Clay, silt, boulder, red | 10 | 20 |
| Clay, silt, red | 30 | 50 |
| Clay, red | 50 | 100 |
| Clay, silt, red | 50 | 150 |
| Clay, silt, red | 50 | 200 |
| Clay, silt, red | 50 | 250 |
| Water, low permeability, clay, silt, sand, red | 50 | 300 |
| Water, low permeability, clay, silt, sand, red | 60 | 360 |
| Water, high permeability, other | 90 | 450 |
| **(D-2-6)4dda-1** | | |
| **Log by Zimmerman Well Service** | | |
| Clay, sand, gravel, red and brown | 22 | 22 |
| Clay, gravel, red | 6 | 28 |
| Clay, gravel, tan | 2 | 30 |
| Clay, gravel, red | 4 | 34 |
| Clay, gravel, brown | 17 | 51 |

**Table 2.** Drillers' logs of selected wells in Kamas Valley and vicinity, Utah—Continued

| Lithology | Thickness | Depth |
|---|---|---|
| **(D-2-6)4dda-1—Continued** | | |
| Clay, sand, gravel, brown | 12 | 63 |
| Clay, gravel, gray-brown | 1 | 64 |
| Volcanic ash with mica | 10 | 74 |
| Gravel, volcanic ash, brown and red | 29 | 103 |
| Clay, sand, gravel | 1 | 104 |
| Quartzite | 6 | 110 |
| Siltstone, red, 15 gal/min at 125 ft | 15 | 125 |
| Clay, gravel, white, brown | 26 | 151 |
| Volcanics with siltstone ledges, red-brown | 99 | 250 |
| Siltstone, red, brown | 43 | 293 |
| Quartzite, tan | 10 | 303 |
| Siltstone, red, brown | 21 | 324 |
| Clay, white, brown, yellow, with red quartzite | 51 | 375 |
| Quartzite, purple | 10 | 385 |
| Clay, quartzite | 15 | 400 |
| **(D-2-6)6bcc-1** | | |
| **Log by Petersen Brothers Drilling Co.** | | |
| Clay, silt, topsoil | 2 | 2 |
| Gravel, cobbles, some water | 24 | 26 |
| Boulders, hardpan | 4 | 30 |
| Clay | 20 | 50 |
| Limestone | 75 | 125 |
| **(D-2-6)8ddd-1** | | |
| **Log by Schofield Drilling** | | |
| Black, topsoil | 2 | 2 |
| Sand, gravel, boulders | 46 | 48 |
| Clay, silt, sand, gravel | 5 | 53 |
| Sand, gravel, boulders | 45 | 98 |
| Silt, sand, gravel | 12 | 110 |
| Sand, gravel | 10 | 120 |
| **(D-2-6)9bbb-1** | | |
| **Log by Magill Drilling Co. Inc.** | | |
| Clay, brown | 15 | 15 |
| Gravel, cobbles, boulders | 8 | 23 |
| Clay, brown | 12 | 35 |
| Gravel, cobbles, boulders, yellow | 46 | 81 |
| Shale, brown | 11 | 92 |
| Gravel, cobbles, boulders with small red clay layers mixed | 28 | 120 |
| **(D-2-6)16cda-1** | | |
| **Log by Gardner Drilling Co.** | | |
| Silt, gravel | 5 | 5 |
| Silt, gravel, boulders | 10 | 15 |
| Silt, gravel, little water | 5 | 20 |
| Silt, gravel, boulders | 15 | 35 |
| Sand, gravel, boulders | 5 | 40 |
| Silt, gravel, boulders, water level at 23 ft. | 20 | 60 |
| Sandstone, (maybe quartz) gray, hard | 35 | 95 |
| Shale, red | 20 | 115 |
| Sandstone, (quartz), gray | 25 | 140 |
| Quartz, cracks, hard | 10 | 150 |

| Lithology | Thickness | Depth |
|---|---|---|
| **(D-2-6)16cda-1—Continued** | | |
| Quartz, large crevice | 20 | 170 |
| Quartz, fractured | 15 | 185 |
| Quartz, fractured, small white clay | 30 | 215 |
| Quartz, fractured, loose rock 217-220 ft. | 5 | 220 |
| Quartz, light red | 10 | 230 |
| Quartz, light red, crevices | 5 | 235 |
| Shale, red | 45 | 280 |
| Sandstone and quartz | 20 | 300 |
| Sandstone and quartz, large crevices | 5 | 305 |
| (Sandstone, red | 5 | 310 |
| Quartz, large cracks | 35 | 345 |
| Sandstone or quartzite | 20 | 365 |
| **Log by Zimmerman Well Service (deepened)** | | |
| Weber Sandstone, red, fracture at 390-401 ft 400 gal/min | 55 | 420 |
| **(D-2-6)21cdd-1** | | |
| **Log by J. Gary Petersen and Sons** | | |
| Silt, topsoil | 2 | 2 |
| Gravel, cobble, boulders, surface water | 16 | 18 |
| Clay, cobbles | 10 | 28 |
| Clay, sand, gravel, light brown | 19 | 47 |
| Sand, gravel, cobbles, boulders | 21 | 68 |
| Clay, cobbles, boulders | 21 | 89 |
| Clay | 8 | 97 |
| Gravel, water at 30 gal/min | 5 | 102 |
| **(D-2-6)21dcd-1** | | |
| **Log by Schofield Drilling** | | |
| Sand, gravel, cobbles, bounders | 90 | 90 |
| Sandstone, red and tan, fractured | 12 | 102 |
| **(D-2-6)21ddb-1** | | |
| **Log by Schofield Drilling** | | |
| Sand, gravel, cobbles | 40 | 40 |
| Clay and gravel | 10 | 50 |
| Sandstone, tan | 53 | 103 |
| Sandstone, tan with water | 37 | 140 |
| **(D-2-6)25aad-1** | | |
| **Log by Magill Drilling Co. Inc.** | | |
| Gravel, cobbles, boulder | 22 | 22 |
| Water, high permeability, shale, blue, hard layers small | 98 | 120 |
| **(D-2-6)25caa-1** | | |
| **Log by J.G. Lee Drilling** | | |
| Clay, boulders | 94 | 94 |
| Clay | 2 | 96 |
| Water, gravel, and boulders | 5 | 101 |
| Conglomerate | 4 | 105 |
| **(D-2-6)25dba-1** | | |
| **Log by Magill Drilling Co. Inc.** | | |
| Gravel, cobbles, boulders | 56 | 56 |
| LImestone, grey, firm | 40 | 96 |

**Table 2.** Drillers' logs of selected wells in Kamas Valley and vicinity, Utah—Continued

| Lithology | Thickness | Depth |
|---|---|---|
| **(D-2-6)25dba-1—Continued** | | |
| LImestone, grey, fractured | 9 | 105 |
| Limestone, grey, firm | 53 | 158 |
| **(D-2-6)26abc-1** | | |
| **Log by Harvey Sales and Service, Inc.** | | |
| Topsoil | 2 | 2 |
| Clay, silt | 16 | 18 |
| Cobbles, boulders | 28 | 46 |
| Clay, hardpan, blue | 84 | 130 |
| Silt, orange | 6 | 136 |
| Clay, hardpan, brown, sandstone ledges | 90 | 226 |
| Clay, sand, gravel, small 1/8-1/16-in. gravel | 15 | 241 |
| Sandstone | 5 | 246 |
| Clay, brown | 21 | 267 |
| Clay, sand, gravel, sandstone ledges | 33 | 300 |
| **(D-2-6)26bad-2** | | |
| **Log by Schofield Drilling** | | |
| Topsoil, black | 5 | 5 |
| Clay, with cobbles, boulders | 15 | 20 |
| Limestone, hard | 80 | 100 |
| Limestone, busted up with water | 25 | 125 |
| Limestone, water | 90 | 215 |
| **(D-2-6)27ccc-1** | | |
| **Log by W.D. Harkness** | | |
| Soil | 3 | 3 |
| Hardpan with boulders | 35 | 38 |
| Sandstone, red | 14 | 52 |
| Gravel | 3 | 55 |
| **(D-2-6)28aab-3** | | |
| **Log by Schofield Drilling** | | |
| Clay | 15 | 15 |
| Clay, gravel | 5 | 20 |
| Gravel, cobbles, boulders | 30 | 50 |
| Sandstone, tan | 10 | 60 |
| Sandstone, tan, broken, water | 25 | 85 |
| **(D-2-6)28add-1** | | |
| **Log by Exterra** | | |
| Clay, silt | 10 | 10 |
| Clay, silt, gravel | 10 | 20 |
| Gravel, cobbles | 20 | 40 |
| Gravel, cobbles, boulders, water | 40 | 80 |
| Sandstone, red, water at 125 ft. | 60 | 140 |
| **(D-2-6)29bcb-1** | | |
| **Log by Exterra** | | |
| Clay | 15 | 15 |
| Clay, silt, sand, water, | 10 | 25 |
| Sand, gravel | 10 | 35 |
| Gravel, cobbles, water | 20 | 55 |
| Cobbles, boulders, water | 29 | 84 |
| **(D-2-6)29bcb-1—Continued** | | |
| **Log by Exterra (deepened)** | | |
| Missing description | 6 | 90 |
| Sand, gravel, cobbles | 30 | 120 |
| Gravel, cobbles | 20 | 140 |
| Gravel, cobbles, boulders | 100 | 240 |
| Volcanics | 50 | 290 |
| **(D-2-6)33cab-1** | | |
| **Log by Magill Drilling Co. Inc.** | | |
| Gravel, cobbles, boulder | 18 | 18 |
| Conglomerate, yellow/brown | 172 | 190 |
| **(D-2-6)34acc-1** | | |
| **Log by Huntsman Drilling** | | |
| Clay, gravel, cobbles | 20 | 20 |
| Sandstone, white and rose | 60 | 80 |
| Sandstone, white, varies in hardness | 80 | 160 |
| **(D-2-6)34dcc-1** | | |
| **Log by Dave's Drilling** | | |
| Clay | 10 | 10 |
| Gravel | 30 | 40 |
| Cobbles | 30 | 70 |
| Bedrock | 20 | 90 |
| Gravel | 13 | 103 |
| **(D-3-6)2dbb-1** | | |
| **Log by Exterra** | | |
| Clay | 5 | 5 |
| Sand, gravel. cobbles | 45 | 50 |
| Gravel, cobbles, boulder | 25 | 75 |
| Water, gravel, cobbles, boulder | 25 | 100 |
| Clay, silt | 50 | 150 |
| Water, high permeability, sand, gravel, cobbles, boulder | 30 | 180 |
| **(D-3-6) 3bdb-1** | | |
| **Log by Schofield Drilling** | | |
| Topsoil, black | 3 | 3 |
| Sand, gravel, cobbles | 22 | 25 |
| Gravel, cobbles, boulders | 20 | 45 |
| Gravel, cobbles, boulders, water | 55 | 100 |
| **(D-3-6)4aad-1** | | |
| **Log by Magill Drilling Co. Inc.** | | |
| Topsoil | 7 | 7 |
| Gravel, cobbles, boulder | 12 | 19 |
| Bedrock | 3 | 22 |
| Gravel, cobbles, boulder | 13 | 35 |
| Conglomerate, yellow, two small red clay seams | 145 | 180 |

**Table 3.** Water level in selected wells in Kamas Valley and vicinity, Utah

Local well number: See figure 1 for an explanation of the numbering system used for hydrologic-data sites in Utah.
Water level: In feet above (-) or below land surface. F, flowing; I, interpolated.

| Local well number | Date | Water level |
|---|---|---|
| (D-1-5)10dda-1 | 02-11-1999 | 24.03 |
| | 03-15-1999 | 23.73 |
| | 04-14-1999 | 24.42 |
| | 05-12-1999 | 23.16 |
| | 06-17-1999 | 23.51 |
| | 07-12-1999 | 24.27 |
| | 08-05-1999 | 23.36 |
| | 09-08-1999 | 22.22 |
| | 10-06-1999 | 23.22 |
| | 11-04-1999 | 23.58 |
| | 12-16-1999 | 25.57 |
| | 01-24-2000 | 25.34 |
| | 02-22-2000 | 25.99 |
| | 03-21-2000 | 26.37 |
| | 04-10-2000 | 26.57 |
| | 05-16-2000 | 24.40 |
| | 07-03-2000 | 22.73 |
| | 07-27-2000 | 23.40 |
| | 08-30-2000 | 23.60 |
| | 09-20-2000 | 25.90 |
| (D-1-5)13cdb-1 | 10-09-1997 | 57.76 |
| | 10-29-1997 | 62.26 |
| | 12-12-1997 | 70.95 |
| | 01-08-1998 | 75.16 |
| | 02-13-1998 | 80.27 |
| | 03-11-1998 | 83.52 |
| | 04-10-1998 | 85.47 |
| | 05-12-1998 | 84.81 |
| | 06-10-1998 | 75.32 |
| | 07-13-1998 | 59.54 |
| | 08-10-1998 | 54.22 |
| | 09-09-1998 | 53.75 |
| | 10-14-1998 | 58.54 |
| | 11-13-1998 | 64.69 |
| | 12-09-1998 | 69.80 |
| | 01-19-1999 | 76.65 |
| | 02-11-1999 | 79.67 |
| | 03-12-1999 | 83.42 |
| | 04-14-1999 | 85.40 |
| | 05-12-1999 | 84.32 |
| | 06-17-1999 | 73.86 |
| | 08-05-1999 | 54.57 |
| | 10-06-1999 | 54.33 |
| | 01-24-2000 | 76.41 |
| | 02-22-2000 | 80.18 |
| | 04-10-2000 | 85.06 |
| | 05-16-2000 | 87.30 |
| | 07-03-2000 | 76.72 |
| | 08-01-2000 | 59.58 |
| | 08-30-2000 | 58.82 |
| | 09-20-2000 | 60.81 |
| (D-1-5)15acb-1 | 11-18-1998 | 103.54 |
| | 12-09-1998 | 56.59 |
| | 01-19-1999 | 69.90 |
| | 02-11-1999 | 52.50 |
| | 03-12-1999 | 34.21 |
| | 04-14-1999 | 47.39 |
| | 05-12-1999 | 66.14 |
| | 06-17-1999 | 133.56 |
| | 02-03-2000 | 136.36 |
| | 02-22-2000 | 128.97 |
| | 04-10-2000 | 136.58 |
| | 05-22-2000 | 104.41 |
| | 07-07-2000 | 94.94 |
| | 07-27-2000 | 99.82 |
| | 08-30-2000 | 23.68 |
| | 09-25-2000 | 59.43 |
| (D-1-5)15bda-1 | 11-18-1998 | 164.05 |
| | 12-09-1998 | 159.34 |
| | 01-19-1999 | 159.63 |
| | 02-11-1999 | 164.09 |
| | 03-12-1999 | 158.89 |
| | 04-14-1999 | 158.45 |
| | 02-03-2000 | 158.80 |
| (D-1-5)21aca-1 | 03-12-1999 | 174.20 |
| | 04-15-1999 | 173.27 |
| | 05-12-1999 | 169.14 |
| | 06-17-1999 | 170.87 |
| | 07-12-1999 | 171.67 |
| | 08-05-1999 | 171.85 |
| | 09-08-1999 | 172.17 |
| | 10-06-1999 | 172.50 |
| | 11-04-1999 | 173.02 |
| | 12-16-1999 | 173.91 |
| | 02-03-2000 | 174.83 |
| (D-1-5)23dda-1 | 10-21-1997 | 14.19 |
| | 10-29-1997 | 15.13 |
| | 12-11-1997 | 18.55 |
| | 01-08-1998 | 17.95 |
| | 02-13-1998 | 18.97 |
| | 03-11-1998 | 19.06 |
| | 04-10-1998 | 15.88 |
| | 05-12-1998 | 10.38 |
| | 06-10-1998 | 3.49 |
| | 07-13-1998 | 3.85 |
| | 08-10-1998 | 4.77 |
| | 09-09-1998 | 5.50 |

**Table 3.** Water level in selected wells in Kamas Valley and vicinity, Utah—Continued

| Local well number | Date | Water level |
|---|---|---|
| (D-1- 5)23dda-1—Continued | 10-14-1998 | 10.75 |
| | 11-13-1998 | 13.15 |
| | 12-09-1998 | 16.30 |
| | 01-19-1999 | 18.09 |
| | 02-11-1999 | 16.43 |
| | 03-12-1999 | 17.41 |
| | 04-14-1999 | 17.49 |
| | 05-12-1999 | 15.57 |
| | 06-17-1999 | 2.55 |
| | 07-12-1999 | 3.47 |
| | 08-05-1999 | 5.89 |
| | 09-08-1999 | 5.25 |
| | 10-06-1999 | 11.22 |
| | 11-04-1999 | 13.27 |
| | 12-16-1999 | 15.71 |
| | 01-24-2000 | 17.52 |
| | 02-22-2000 | 18.48 |
| | 03-21-2000 | 18.11 |
| | 04-10-2000 | 18.51 |
| | 05-16-2000 | 7.50 |
| | 07-03-2000 | 5.22 |
| | 08-01-2000 | 6.71 |
| | 08-30-2000 | 6.50 |
| | 09-21-2000 | 11.04 |
| (D-1-5)25dbd-1 | 10-29-1997 | 2.14 |
| | 12-11-1997 | 2.15 |
| | 01-08-1998 | 2.03 |
| | 02-13-1998 | 2.16 |
| | 03-11-1998 | 1.99 |
| | 04-10-1998 | 2.05 |
| | 05-12-1998 | 1.79 |
| | 06-10-1998 | 1.47 |
| | 07-13-1998 | 1.59 |
| | 08-11-1998 | 1.49 |
| | 09-09-1998 | 1.57 |
| | 10-14-1998 | 2.03 |
| | 11-13-1998 | 2.20 |
| | 03-12-1999 | 1.91 |
| | 07-12-1999 | 1.44 |
| (D-1-6)15acc-1 | 08-11-1998 | 39.37 |
| | 08-13-1998 | 39.57 |
| | 08-17-1998 | 39.98 |
| | 08-19-1998 | 40.19 |
| | 08-20-1998 | 40.31 |
| (D-1-6)15acd-1 | 08-11-1998 | 33.52 |
| | 08-13-1998 | 33.64 |
| | 08-17-1998 | 33.83 |
| | 08-19-1998 | 33.87 |
| (D-1-6)15acd-1—Continued | 08-20-1998 | 33.89 |
| | 08-21-1998 | 33.93 |
| | 08-22-1998 | 34.10 |
| (D-1-6)15acd-2 | 08-11-1998 | 23.30 |
| | 08-17-1998 | 23.61 |
| | 08-19-1998 | 23.69 |
| | 08-20-1998 | 23.74 |
| | 08-21-1998 | 23.78 |
| | 08-22-1998 | 23.87 |
| | 10-29-1998 | 24.94 |
| | 11-20-1998 | 25.24 |
| | 12-09-1998 | 25.25 |
| | 01-19-1999 | 25.43 |
| | 02-11-1999 | 25.56 |
| | 03-15-1999 | 25.63 |
| | 04-14-1999 | 24.70 |
| | 05-12-1999 | 21.43 |
| | 06-22-1999 | 17.70 |
| | 07-12-1999 | 20.81 |
| | 08-05-1999 | 23.05 |
| | 09-08-1999 | 23.98 |
| | 10-07-1999 | 24.37 |
| | 11-04-1999 | 24.79 |
| | 12-16-1999 | 25.06 |
| | 02-04-2000 | 25.04 |
| | 02-23-2000 | 25.31 |
| | 03-21-2000 | 25.36 |
| | 04-10-2000 | 25.04 |
| | 05-17-2000 | 24.24 |
| | 06-29-2000 | 24.99 |
| | 08-01-2000 | 25.79 |
| | 08-30-2000 | 25.77 |
| | 09-21-2000 | 26.01 |
| (D-1-6)16dbc-1 | 02-25-1999 | 194.90 |
| | 04-15-1999 | 189.16 |
| | 07-12-1999 | 156.13 |
| | 09-08-1999 | 128.75 |
| | 11-04-1999 | 148.27 |
| | 12-16-1999 | 160.29 |
| | 02-04-2000 | 179.75 |
| | 02-23-2000 | 185.14 |
| | 03-21-2000 | 191.49 |
| | 04-10-2000 | 193.20 |
| | 05-17-2000 | 197.60 |
| | 06-29-2000 | 153.89 |
| | 08-01-2000 | 136.77 |
| | 08-30-2000 | 152.04 |
| | 09-21-2000 | 164.39 |

**Table 3.** Water level in selected wells in Kamas Valley and vicinity, Utah—Continued

| Local well number | Date | Water level |
|---|---|---|
| (D-1-6)17cca-2 | 03-01-1999 | 88.65 |
| | 03-12-1999 | 88.60 |
| | 04-14-1999 | 87.62 |
| | 05-12-1999 | 87.10 |
| | 07-12-1999 | 80.26 |
| | 08-05-1999 | 76.00 |
| | 09-08-1999 | 82.66 |
| | 10-07-1999 | 84.39 |
| | 11-04-1999 | 85.79 |
| | 12-15-1999 | 87.06 |
| | 02-04-2000 | 88.25 |
| | 02-23-2000 | 88.66 |
| | 03-21-2000 | 89.00 |
| | 04-10-2000 | 91.90 |
| | 07-03-2000 | 81.30 |
| | 08-01-2000 | 79.44 |
| (D-1-6)17cdc-1 | 01-29-1998 | 35.38 |
| | 02-13-1998 | 35.29 |
| | 03-11-1998 | 35.17 |
| | 04-10-1998 | 34.63 |
| | 05-12-1998 | 34.60 |
| | 06-10-1998 | 34.77 |
| | 07-13-1998 | 32.91 |
| | 08-11-1998 | 34.40 |
| | 09-09-1998 | 34.45 |
| | 10-14-1998 | 35.49 |
| | 11-13-1998 | 36.77 |
| | 12-09-1998 | 40.66 |
| | 01-19-1999 | 38.92 |
| | 02-11-1999 | 39.03 |
| | 03-12-1999 | 39.14 |
| | 04-14-1999 | 38.97 |
| | 05-12-1999 | 39.05 |
| (D-1-6)19ddc-1 | 03-02-1999 | 26.85 |
| | 03-12-1999 | 26.70 |
| | 04-15-1999 | 28.95 |
| | 05-12-1999 | 26.67 |
| | 06-22-1999 | 9.34 |
| | 07-12-1999 | 5.54 |
| | 08-05-1999 | 4.96 |
| | 09-08-1999 | 8.26 |
| | 10-07-1999 | 12.52 |
| | 11-04-1999 | 8.60 |
| | 02-22-2000 | 26.29 |
| | 03-21-2000 | 27.51 |
| | 04-10-2000 | 28.91 |
| | 05-16-2000 | 23.01 |
| | 07-03-2000 | 8.88 |
| | 08-01-2000 | 9.35 |
| | 08-30-2000 | 11.36 |
| | 09-20-2000 | 13.50 |
| (D-1-6)20abb-1 | 03-01-1999 | 194.00 |
| | 03-15-1999 | 197.01 |
| | 04-15-1999 | 197.77 |
| | 05-12-1999 | 193.00 |
| | 06-22-1999 | 64.87 |
| | 07-12-1999 | 55.14 |
| | 08-05-1999 | 36.65 |
| | 09-08-1999 | 49.64 |
| | 10-07-1999 | 97.69 |
| | 11-04-1999 | 126.58 |
| | 12-16-1999 | 163.68 |
| | 02-04-2000 | 187.05 |
| | 02-23-2000 | 192.18 |
| | 03-22-2000 | 197.88 |
| | 04-10-2000 | 199.44 |
| | 05-16-2000 | 194.40 |
| | 07-03-2000 | 56.14 |
| | 08-01-2000 | 50.42 |
| | 09-20-2000 | 136.60 |
| (D-1-6)20bcb-1 | 03-01-1999 | 98.66 |
| | 03-12-1999 | 99.20 |
| | 04-14-1999 | 99.23 |
| | 05-12-1999 | 99.20 |
| | 06-22-1999 | 57.58 |
| | 07-12-1999 | 49.11 |
| | 08-05-1999 | 44.85 |
| | 09-08-1999 | 38.34 |
| | 11-04-1999 | 57.04 |
| | 12-16-1999 | 86.49 |
| | 02-04-2000 | 97.75 |
| | 02-23-2000 | 99.15 |
| | 03-21-2000 | 99.81 |
| | 04-10-2000 | 100.01 |
| | 05-16-2000 | 101.55 |
| | 07-03-2000 | 65.98 |
| | 08-01-2000 | 53.04 |
| | 08-30-2000 | 51.70 |
| | 09-20-2000 | 66.75 |
| (D-1-6)21cbb-1 | 03-02-1999 | 107.50 |
| | 03-15-1999 | 108.81 |
| | 04-15-1999 | 110.05 |
| | 05-12-1999 | 109.48 |
| | 06-22-1999 | 80.07 |
| | 07-12-1999 | 74.30 |
| | 08-05-1999 | 71.90 |
| | 09-08-1999 | 73.13 |
| | 10-07-1999 | 76.68 |
| | 11-04-1999 | 82.39 |
| | 12-16-1999 | 92.60 |
| | 02-04-2000 | 103.72 |
| | 02-23-2000 | 106.30 |

**Table 3.** Water level in selected wells in Kamas Valley and vicinity, Utah—Continued

| Local well number | Date | Water level |
|---|---|---|
| (D-1-6)21cbb-1—Continued | 03-21-2000 | 109.29 |
| | 04-10-2000 | 110.73 |
| | 05-17-2000 | 106.33 |
| | 06-29-2000 | 76.81 |
| | 08-01-2000 | 73.68 |
| | 08-30-2000 | 77.55 |
| | 09-25-2000 | 81.72 |
| (D-1-6)22bdc-1 | 04-10-1998 | 66.82 |
| | 05-12-1998 | 59.42 |
| | 06-10-1998 | 47.53 |
| | 07-13-1998 | 47.27 |
| | 08-11-1998 | 51.90 |
| | 09-09-1998 | 51.58 |
| | 10-15-1998 | 57.61 |
| | 11-13-1998 | 61.58 |
| | 12-09-1998 | 63.58 |
| | 01-25-1999 | 66.28 |
| | 02-11-1999 | 67.10 |
| | 03-15-1999 | 67.70 |
| | 04-14-1999 | 62.89 |
| | 05-12-1999 | 54.22 |
| | 06-22-1999 | 42.34 |
| | 07-12-1999 | 48.19 |
| | 08-05-1999 | 49.11 |
| | 09-08-1999 | 50.86 |
| | 10-07-1999 | 54.20 |
| | 11-04-1999 | 56.48 |
| | 12-16-1999 | 61.13 |
| | 01-25-2000 | 64.95 |
| | 02-23-2000 | 66.23 |
| | 03-21-2000 | 67.25 |
| | 04-10-2000 | 65.92 |
| | 05-17-2000 | 47.98 |
| | 06-29-2000 | 47.14 |
| | 08-01-2000 | 53.58 |
| | 08-30-2000 | 56.60 |
| | 09-21-2000 | 58.79 |
| (D-1-6)22cbb-1 | 01-29-1998 | 66.11 |
| | 02-13-1998 | 67.76 |
| | 03-12-1998 | 69.94 |
| | 04-10-1998 | 64.37 |
| | 05-12-1998 | 35.69 |
| | 06-10-1998 | 21.40 |
| | 07-13-1998 | 24.28 |
| | 08-11-1998 | 30.98 |
| | 09-09-1998 | 28.71 |
| | 10-15-1998 | 41.20 |
| | 11-13-1998 | 47.79 |
| | 12-09-1998 | 51.10 |
| | 01-19-1999 | 59.78 |
| (D-1-6)22cbb-1—Continued | 02-11-1999 | 64.90 |
| | 03-15-1999 | 67.95 |
| | 04-14-1999 | 50.08 |
| | 05-12-1999 | 30.24 |
| | 06-22-1999 | 16.28 |
| | 07-12-1999 | 27.69 |
| | 08-05-1999 | 27.35 |
| | 09-08-1999 | 31.76 |
| | 10-07-1999 | 36.69 |
| | 11-04-1999 | 39.31 |
| | 12-16-1999 | 51.61 |
| | 01-25-2000 | 58.65 |
| | 02-23-2000 | 63.28 |
| | 03-21-2000 | 64.35 |
| | 04-10-2000 | 53.10 |
| | 05-17-2000 | 17.92 |
| | 06-26-2000 | 23.35 |
| | 08-01-2000 | 34.32 |
| | 08-30-2000 | 39.61 |
| | 09-21-2000 | 43.23 |
| (D-1-6)28cbc-1 | 03-02-1999 | 24.34 |
| | 03-12-1999 | 25.03 |
| | 04-15-1999 | 17.38 |
| | 05-12-1999 | 7.94 |
| | 06-22-1999 | 3.59 |
| | 07-12-1999 | 4.73 |
| | 08-05-1999 | 4.95 |
| (D-1-6)29cbd-1 | 10-29-1997 | 13.93 |
| | 12-11-1997 | 15.16 |
| | 01-08-1998 | 15.54 |
| | 02-13-1998 | 16.09 |
| | 03-12-1998 | 16.20 |
| | 04-10-1998 | 12.14 |
| | 05-12-1998 | 9.51 |
| | 06-10-1998 | 3.64 |
| | 07-13-1998 | 3.70 |
| | 08-11-1998 | 7.54 |
| | 09-09-1998 | 5.09 |
| | 10-14-1998 | 11.26 |
| | 11-13-1998 | 11.77 |
| | 12-09-1998 | 13.96 |
| | 01-19-1999 | 16.23 |
| | 02-11-1999 | 15.77 |
| | 03-12-1999 | 15.75 |
| | 04-14-1999 | 15.19 |
| | 05-12-1999 | 6.65 |
| | 06-22-1999 | 2.17 |
| | 07-12-1999 | 3.83 |
| | 08-05-1999 | 6.80 |
| | 09-08-1999 | 20.55 |

**Table 3.** Water level in selected wells in Kamas Valley and vicinity, Utah—Continued

| Local well number | Date | Water level |
|---|---|---|
| (D-1- 6)29cbd-1—Continued | 11-04-1999 | 12.11 |
| | 12-16-1999 | 15.59 |
| | 01-25-2000 | 16.07 |
| | 02-22-2000 | 15.70 |
| | 03-21-2000 | 15.42 |
| | 04-10-2000 | 13.23 |
| | 05-16-2000 | 3.61 |
| (D-1-6)32dda-1 | 08-23-1999 | 39.57 |
| | 09-09-1999 | 42.94 |
| | 10-07-1999 | 49.70 |
| | 11-04-1999 | 52.83 |
| | 12-22-1999 | 53.74 |
| | 02-04-2000 | 53.43 |
| | 02-23-2000 | 54.48 |
| | 03-21-2000 | 56.54 |
| | 04-10-2000 | 57.30 |
| | 05-17-2000 | 44.67 |
| | 06-29-2000 | 43.57 |
| | 08-01-2000 | 50.25 |
| | 08-30-2000 | 53.02 |
| | 09-21-2000 | 55.01 |
| (D-1-6)33dba-1 | 12-22-1998 | 131.00 |
| | 02-25-1999 | 119.54 |
| | 03-15-1999 | 120.91 |
| | 04-15-1999 | 122.19 |
| | 05-13-1999 | 120.27 |
| | 07-12-1999 | 78.89 |
| | 09-08-1999 | 97.35 |
| (D-1-6)33dcc-1 | 08-27-1997 | 108.45 |
| | 09-30-1997 | 126.94 |
| | 10-29-1997 | 138.11 |
| | 12-03-1997 | 138.56 |
| | 01-08-1998 | 145.25 |
| | 02-10-1998 | 147.18 |
| | 03-11-1998 | 149.05 |
| | 04-10-1998 | 144.64 |
| | 05-06-1998 | 141.61 |
| | 06-10-1998 | 103.97 |
| | 07-13-1998 | 80.26 |
| | 08-11-1998 | 95.94 |
| | 09-09-1998 | 106.33 |
| | 10-14-1998 | 123.07 |
| | 11-13-1998 | 132.81 |
| | 12-09-1998 | 138.35 |
| | 01-25-1999 | 144.87 |
| | 02-11-1999 | 145.92 |
| | 03-15-1999 | 146.82 |
| | 04-14-1999 | 145.49 |
| | 05-12-1999 | 140.78 |
| (D-1-6)33dcc-1—Continued | 06-22-1999 | 96.87 |
| | 07-12-1999 | 96.74 |
| | 08-06-1999 | 108.32 |
| | 09-08-1999 | 118.19 |
| | 10-07-1999 | 133.58 |
| | 11-03-1999 | 139.41 |
| | 12-22-1999 | 142.06 |
| | 01-25-2000 | 142.34 |
| | 02-22-2000 | 144.39 |
| | 03-17-2000 | 147.16 |
| | 04-10-2000 | 148.88 |
| | 05-17-2000 | 131.52 |
| | 06-29-2000 | 123.72 |
| | 07-25-2000 | 135.23 |
| | 09-25-2000 | 145.25 |
| (D-2-5)2cbd-1 | 03-16-1999 | 390.66 |
| | 04-16-1999 | 390.77 |
| | 06-21-1999 | 389.68 |
| | 07-12-1999 | 389.62 |
| | 08-09-1999 | 389.68 |
| | 09-13-1999 | 389.94 |
| | 10-13-1999 | 390.13 |
| | 11-08-1999 | 390.26 |
| | 04-12-2000 | 391.54 |
| | 05-22-2000 | 391.61 |
| | 08-02-2000 | 392.04 |
| | 09-25-2000 | 392.50 |
| (D-2-5)11bcd-1 | 03-17-1999 | 101.89 |
| | 04-16-1999 | 79.73 |
| | 05-13-1999 | 67.54 |
| | 06-17-1999 | 69.59 |
| | 07-12-1999 | 77.77 |
| | 08-09-1999 | 83.54 |
| | 09-13-1999 | 90.21 |
| | 10-13-1999 | 94.91 |
| | 11-08-1999 | 98.23 |
| | 12-23-1999 | 103.25 |
| | 02-04-2000 | 105.90 |
| | 02-29-2000 | 106.62 |
| | 03-17-2000 | 104.63 |
| | 04-12-2000 | 92.25 |
| | 05-22-2000 | 90.78 |
| | 06-30-2000 | 96.02 |
| | 08-02-2000 | 100.80 |
| | 08-31-2000 | 104.40 |
| | 09-25-2000 | 106.99 |

**Table 3.** Water level in selected wells in Kamas Valley and vicinity, Utah—Continued

| Local well number | Date | Water level |
|---|---|---|
| (D-2-5)13aaa-1 | 03-15-1999 | 122.61 |
| | 06-17-1999 | 122.84 |
| | 07-13-1999 | 122.80 |
| | 08-09-1999 | 122.83 |
| | 09-09-1999 | 123.12 |
| | 12-23-1999 | 124.52 |
| | 02-04-2000 | 124.57 |
| (D-2-5)13adc-1 | 10-30-1997 | 92.43 |
| | 12-12-1997 | 93.09 |
| | 01-15-1998 | 93.65 |
| | 03-12-1998 | 93.80 |
| | 04-10-1998 | 91.30 |
| | 05-12-1998 | 88.57 |
| | 06-15-1998 | 85.98 |
| | 07-15-1998 | 90.15 |
| | 08-13-1998 | 90.11 |
| | 09-09-1998 | 91.98 |
| | 10-29-1998 | 93.39 |
| | 11-16-1998 | 93.66 |
| | 12-15-1998 | 94.14 |
| | 02-16-1999 | 94.06 |
| | 04-13-1999 | 92.54 |
| | 05-13-1999 | 92.03 |
| | 06-17-1999 | 89.90 |
| | 07-13-1999 | 90.24 |
| | 08-09-1999 | 91.15 |
| | 10-13-1999 | 94.07 |
| | 11-08-1999 | 94.69 |
| | 12-22-1999 | 95.14 |
| | 02-01-2000 | 94.90 |
| | 02-29-2000 | 94.72 |
| | 03-17-2000 | 94.67 |
| | 04-11-2000 | 94.53 |
| | 05-22-2000 | 91.48 |
| | 06-30-2000 | 92.57 |
| | 08-02-2000 | 94.69 |
| | 08-31-2000 | 95.43 |
| | 09-25-2000 | 95.15 |
| (D-2-5)14daa-1 | 02-16-1999 | 31.79 |
| | 03-15-1999 | 19.47 |
| | 04-13-1999 | 20.83 |
| | 05-13-1999 | 11.40 |
| | 06-17-1999 | 20.23 |
| | 07-12-1999 | 24.32 |
| | 08-09-1999 | 26.42 |
| | 09-13-1999 | 29.06 |
| | 10-13-1999 | 30.95 |
| | 11-08-1999 | 31.89 |
| | 12-23-1999 | 33.64 |
| | 02-04-2000 | 33.89 |
| (D-2-5)14daa-1—Continued | 02-29-2000 | 28.15 |
| | 03-17-2000 | 23.95 |
| | 04-12-2000 | 27.12 |
| | 05-22-2000 | 30.99 |
| | 06-30-2000 | 36.02 |
| | 08-02-2000 | 41.73 |
| | 08-31-2000 | 42.96 |
| | 09-25-2000 | 43.90 |
| (D-2-6)4dac-1 | 08-27-1997 | 59.55 |
| | 09-09-1997 | 59.99 |
| | 09-12-1997 | 59.95 |
| | 09-30-1997 | 59.20 |
| | 10-29-1997 | 58.12 |
| | 12-03-1997 | 56.84 |
| | 01-21-1998 | 55.64 |
| | 02-13-1998 | 55.32 |
| | 03-11-1998 | 55.09 |
| | 04-10-1998 | 54.75 |
| | 05-06-1998 | 54.50 |
| | 06-11-1998 | 52.99 |
| | 07-13-1998 | 51.32 |
| | 08-11-1998 | 50.64 |
| | 09-09-1998 | 50.28 |
| | 10-15-1998 | 50.00 |
| | 11-13-1998 | 49.62 |
| | 12-09-1998 | 49.37 |
| | 01-25-1999 | 50.68 |
| | 03-15-1999 | 52.86 |
| | 05-10-1999 | 52.48 |
| | 07-13-1999 | 54.98 |
| | 09-08-1999 | 54.09 |
| | 11-03-1999 | 56.01 |
| | 01-24-2000 | 57.19 |
| (D-2-6)4dad-1 | 08-27-1997 | 58.53 |
| | 09-09-1997 | 58.45 |
| | 09-30-1997 | 58.60 |
| | 10-29-1997 | 58.27 |
| | 12-03-1997 | 58.20 |
| | 01-21-1998 | 57.95 |
| | 02-13-1998 | 57.81 |
| | 03-12-1998 | 57.79 |
| | 04-10-1998 | 57.68 |
| | 05-06-1998 | 57.57 |
| | 06-11-1998 | 57.25 |
| | 07-13-1998 | 56.92 |
| | 08-11-1998 | 56.76 |
| | 09-09-1998 | 56.51 |
| | 10-15-1998 | 56.20 |
| | 11-13-1998 | 56.11 |
| | 12-09-1998 | 56.18 |

**Table 3.** Water level in selected wells in Kamas Valley and vicinity, Utah—Continued

| Local well number | Date | Water level |
|---|---|---|
| (D-2-6)4dad-1—Continued | 02-11-1999 | 56.05 |
| | 03-15-1999 | 55.63 |
| | 04-13-1999 | 55.74 |
| | 05-10-1999 | 55.45 |
| | 06-22-1999 | 54.83 |
| | 07-13-1999 | 54.66 |
| | 08-06-1999 | 54.46 |
| | 09-09-1999 | 54.27 |
| | 10-07-1999 | 54.21 |
| | 11-03-1999 | 54.07 |
| | 12-22-1999 | 54.24 |
| | 01-24-2000 | 54.00 |
| | 02-22-2000 | 54.05 |
| | 03-17-2000 | 54.07 |
| | 04-10-2000 | 54.05 |
| | 06-29-2000 | 54.13 |
| | 08-30-2000 | 54.67 |
| | 09-21-2000 | 54.56 |
| (D-2-6)4dda-1 | 09-04-1997 | 104.44 |
| | 09-15-1997 | 104.44 |
| | 09-20-1997 | 104.56 |
| | 09-25-1997 | 104.78 |
| | 09-30-1997 | 104.84 |
| | 10-05-1997 | 104.73 |
| | 10-10-1997 | 104.54 |
| | 10-15-1997 | 104.80 |
| | 10-20-1997 | 104.56 |
| | 10-29-1997 | 104.30 |
| | 12-03-1997 | 104.05 |
| | 10-15-1998 | 104.99 |
| | 11-13-1998 | 105.04 |
| | 03-15-1999 | 105.47 |
| | 06-22-1999 | 104.34 |
| | 07-13-1999 | 104.30 |
| | 09-09-1999 | 104.03 |
| | 11-03-1999 | 103.90 |
| | 01-24-2000 | 103.56 |
| | 02-22-2000 | 103.56 |
| | 03-17-2000 | 103.59 |
| | 05-17-2000 | 103.32 |
| | 07-25-2000 | 106.81 |
| | 09-25-2000 | 103.71 |
| (D-2-6)6bcc-1 | 09-23-1988 | 12.27 |
| | 03-31-1989 | 14.01 |
| | 03-26-1990 | 11.35 |
| | 09-19-1990 | 12.13 |
| | 04-01-1991 | 12.00 |
| | 09-14-1991 | 12.35 |
| | 03-31-1992 | 12.19 |
| | 09-08-1992 | 12.73 |
| (D-2-6)6bcc-1—Continued | 03-29-1993 | 10.88 |
| | 04-01-1994 | 11.76 |
| | 03-28-1995 | 11.84 |
| | 03-26-1996 | 11.34 |
| | 03-28-1997 | 11.10 |
| | 11-30-1997 | 11.87 |
| | 12-26-1997 | 12.01 |
| | 01-28-1998 | 11.86 |
| | 02-26-1998 | 11.86 |
| | 04-01-1998 | 10.86 |
| | 05-25-1998 | 11.57 |
| | 07-08-1998 | 11.92 |
| | 08-12-1998 | 12.22 |
| | 09-10-1998 | 11.97 |
| | 10-29-1998 | 11.86 |
| | 12-02-1998 | 11.93 |
| | 12-30-1998 | 11.92 |
| | 01-20-1999 | 12.01 |
| | 03-02-1999 | 11.67 |
| | 03-09-1999 | 11.59 |
| | 03-15-1999 | 11.55 |
| | 05-01-1999 | 11.62 |
| | 05-30-1999 | 11.80 |
| | 07-08-1999 | 12.06 |
| | 07-12-1999 | 12.08 |
| | 03-06-2000 | 11.98 |
| (D-2-6)8ddd-1 | 02-25-1999 | 3.95 |
| | 03-15-1999 | 2.57 |
| | 04-15-1999 | 3.31 |
| | 05-13-1999 | 1.37 |
| | 06-22-1999 | 1.95 |
| | 07-12-1999 | 2.26 |
| | 08-06-1999 | 2.61 |
| (D-2-6)9bbb-1 | 02-25-1999 | 7.16 |
| | 03-15-1999 | 7.08 |
| | 04-15-1999 | 7.37 |
| | 05-13-1999 | 6.68 |
| | 06-22-1999 | 4.12 |
| | 07-12-1999 | 3.25 |
| | 08-06-1999 | 3.83 |
| | 09-09-1999 | 4.39 |
| | 10-12-1999 | 6.15 |
| | 11-03-1999 | 6.36 |
| (D-2-6)16cda-1 | 10-02-1997 | 40.50 |
| | 10-29-1997 | 41.21 |
| | 12-11-1997 | 45.19 |
| | 01-08-1998 | 47.48 |
| | 02-10-1998 | 49.52 |
| | 03-11-1998 | 50.69 |

**Table 3.** Water level in selected wells in Kamas Valley and vicinity, Utah—Continued

| Local well number | Date | Water level |
|---|---|---|
| (D-2-6)16cda-1—Continued | 04-07-1998 | 48.24 |
| | 05-06-1998 | 46.01 |
| | 06-15-1998 | 41.51 |
| | 07-14-1998 | 38.87 |
| | 08-12-1998 | 39.07 |
| | 09-09-1998 | 39.91 |
| | 10-14-1998 | 39.14 |
| | 11-13-1998 | 42.04 |
| | 12-09-1998 | 44.49 |
| | 01-25-1999 | 47.24 |
| | 02-17-1999 | 47.60 |
| | 03-15-1999 | 48.12 |
| | 06-23-1999 | 39.66 |
| | 07-13-1999 | 38.61 |
| | 08-06-1999 | 39.12 |
| | 09-09-1999 | 40.79 |
| | 10-12-1999 | 41.59 |
| | 11-08-1999 | 41.85 |
| | 12-23-1999 | 46.26 |
| | 02-01-2000 | 47.84 |
| | 02-23-2000 | 48.17 |
| | 03-22-2000 | 48.25 |
| | 04-10-2000 | 48.14 |
| | 05-17-2000 | 47.50 |
| | 07-03-2000 | 41.72 |
| | 08-01-2000 | 44.32 |
| | 08-31-2000 | 45.16 |
| | 09-20-2000 | 46.29 |
| (D-2-6)19bac-1 | 04-07-1998 | 5.43 |
| | 05-06-1998 | 6.25 |
| | 06-11-1998 | 5.15 |
| | 07-15-1998 | 5.90 |
| | 08-12-1998 | 6.44 |
| | 09-09-1998 | 6.12 |
| | 10-14-1998 | 6.46 |
| | 11-16-1998 | 6.25 |
| | 12-15-1998 | 6.70 |
| | 01-25-1999 | 6.64 |
| | 02-16-1999 | 6.32 |
| | 03-12-1999 | 6.27 |
| | 04-14-1999 | 6.61 |
| | 06-21-1999 | 5.64 |
| | 07-12-1999 | 6.26 |
| | 08-09-1999 | 6.11 |
| | 09-09-1999 | 6.52 |
| | 10-13-1999 | 6.17 |
| | 11-08-1999 | 6.75 |
| | 12-15-1999 | 6.90 |
| | 01-25-2000 | 6.50 |
| | 02-29-2000 | 6.67 |
| | 03-22-2000 | 6.73 |
| (D-2-6)19bac-1—Continued | 04-11-2000 | 7.27 |
| | 06-30-2000 | 6.58 |
| | 08-31-2000 | 6.14 |
| | 09-25-2000 | 6.43 |
| (D-2-6)20ccc-1 | 04-04-1938 | 3.22 |
| | 05-31-1938 | 3.02 |
| | 08-27-1938 | 4.55 |
| | 10-20-1938 | 3.85 |
| | 12-13-1938 | 3.65 |
| | 03-21-1939 | 2.32 |
| | 05-01-1939 | 2.79 |
| | 06-22-1939 | 3.20 |
| | 08-29-1939 | 6.11 |
| | 10-30-1939 | 5.66 |
| | 01-08-1940 | 3.79 |
| | 02-14-1940 | 3.76 |
| | 03-20-1940 | 3.95 |
| | 04-03-1940 | 3.53 |
| | 04-16-1940 | 4.06 |
| | 05-15-1940 | 2.76 |
| | 06-13-1940 | 2.94 |
| | 06-26-1940 | 5.37 |
| | 07-20-1940 | 5.96 |
| | 08-15-1940 | 7.00 |
| | 08-20-1940 | 6.86 |
| | 08-26-1940 | 6.64 |
| | 09-16-1940 | 6.57 |
| | 11-14-1940 | 4.80 |
| | 11-30-1940 | 4.17 |
| | 12-16-1940 | 4.78 |
| | 01-12-1941 | 4.20 |
| | 03-14-1941 | 3.81 |
| | 03-17-1941 | 3.94 |
| | 04-16-1941 | 3.80 |
| | 05-16-1941 | 3.50 |
| | 06-14-1941 | 2.2 |
| | 07-16-1941 | 4.28 |
| | 08-04-1941 | 4.8 |
| | 08-16-1941 | 4.54 |
| | 09-03-1941 | 4.88 |
| | 09-16-1941 | 4.63 |
| | 09-27-1941 | 5.04 |
| | 10-13-1941 | 3.65 |
| | 11-10-1941 | 4.20 |
| | 11-24-1941 | 4.18 |
| | 12-15-1941 | 4.14 |
| | 01-13-1942 | 4.65 |
| | 02-16-1942 | 4.55 |
| | 03-16-1942 | 3.46 |
| | 04-16-1942 | 4.30 |
| | 05-15-1942 | 3.82 |

**Table 3.** Water level in selected wells in Kamas Valley and vicinity, Utah—Continued

| Local well number | Date | Water level |
|---|---|---|
| (D-2-6)20ccc-1—Continued | 06-15-1942 | 3.40 |
| | 07-15-1942 | 4.40 |
| | 07-24-1942 | 4.78 |
| | 08-15-1942 | 5.5 |
| | 09-14-1942 | 5.6 |
| | 10-15-1942 | 6.37 |
| | 10-21-1942 | 3.97 |
| | 11-16-1942 | 5.28 |
| | 12-12-1942 | 4.15 |
| | 12-16-1942 | 5.8 |
| | 01-13-1943 | 5.8 |
| | 02-20-1943 | 3.82 |
| | 03-31-1943 | 2.31 |
| | 04-18-1943 | 4.25 |
| | 05-18-1943 | 3.94 |
| | 06-17-1943 | 4.12 |
| | 07-15-1943 | 4.14 |
| | 08-13-1943 | 5.00 |
| | 09-14-1943 | 5.55 |
| | 09-17-1943 | 5.79 |
| | 10-15-1943 | 3.26 |
| | 11-17-1943 | 4.30 |
| | 12-10-1943 | 4.35 |
| | 12-13-1944 | 4.50 |
| | 03-23-1945 | 3.00 |
| | 11-21-1945 | 3.57 |
| | 03-30-1946 | 3.26 |
| | 12-12-1946 | 3.78 |
| | 04-02-1947 | 3.91 |
| | 12-15-1947 | 3.31 |
| | 03-26-1948 | 2.91 |
| | 01-12-1949 | 4.44 |
| | 04-04-1949 | 2.79 |
| | 12-06-1949 | 3.88 |
| | 04-06-1950 | 3.45 |
| | 12-12-1950 | 3.67 |
| | 04-04-1951 | 3.82 |
| | 09-12-1951 | 3.42 |
| | 12-27-1951 | 3.81 |
| | 04-17-1952 | 2.60 |
| | 12-29-1952 | 4.33 |
| | 04-03-1953 | 4.07 |
| | 12-09-1953 | 3.72 |
| | 04-19-1954 | 4.12 |
| | 12-08-1954 | 3.86 |
| | 03-31-1955 | 2.91 |
| | 12-12-1955 | 3.71 |
| | 03-25-1957 | 3.19 |
| | 12-09-1957 | 3.38 |
| | 03-17-1958 | 4.25 |
| | 12-18-1958 | 3.03 |
| | 03-20-1959 | 3.47 |
| (D-2-6)20ccc-1—Continued | 12-09-1959 | 4.92 |
| | 03-21-1960 | 3.71 |
| | 11-30-1960 | 4.04 |
| | 03-21-1961 | 3.66 |
| | 01-12-1962 | 3.91 |
| | 03-08-1962 | 4.27 |
| | 12-18-1962 | 3.80 |
| | 03-06-1963 | 3.93 |
| | 08-30-1963 | 2.89 |
| | 12-09-1963 | 3.80 |
| | 03-04-1964 | 4.28 |
| | 10-20-1964 | 4.41 |
| | 12-10-1964 | 3.93 |
| | 03-08-1965 | 4.08 |
| | 07-27-1965 | 3.97 |
| | 10-18-1965 | 3.87 |
| | 12-13-1965 | 3.71 |
| | 03-16-1966 | 2.45 |
| | 09-13-1966 | 3.71 |
| | 04-15-1967 | 3.65 |
| | 03-12-1968 | 4.02 |
| | 09-18-1968 | 4.54 |
| | 03-24-1969 | 3.76 |
| | 09-18-1969 | 4.23 |
| | 03-19-1970 | 4.33 |
| | 08-21-1970 | 3.87 |
| | 03-25-1971 | 2.81 |
| | 09-10-1971 | 3.48 |
| | 03-14-1972 | 4.50 |
| | 09-29-1972 | 3.57 |
| | 03-19-1973 | 3.28 |
| | 09-10-1973 | 3.56 |
| | 03-21-1974 | 3.62 |
| | 09-13-1974 | 4.36 |
| | 03-19-1975 | 3.13 |
| | 09-09-1975 | 4.25 |
| | 03-04-1976 | 3.34 |
| | 09-07-1976 | 4.38 |
| | 03-14-1977 | 3.96 |
| | 09-08-1977 | 5.10 |
| | 03-13-1978 | 2.83 |
| | 09-11-1978 | 4.01 |
| | 03-29-1979 | 2.33 |
| | 09-25-1979 | 4.87 |
| | 03-19-1980 | 2.60 |
| | 09-05-1980 | 4.04 |
| | 03-30-1981 | 2.73 |
| | 09-28-1981 | 5.34 |
| | 03-25-1982 | 3.97 |
| | 09-30-1982 | 4.45 |
| | 03-31-1983 | 2.89 |
| | 09-28-1983 | 3.87 |
| | 03-29-1984 | 2.88 |

**Table 3.** Water level in selected wells in Kamas Valley and vicinity, Utah—Continued

| Local well number | Date | Water level |
|---|---|---|
| (D-2-6)20dcc-1 | 03-19-1975 | 1.14 |
| | 09-09-1975 | 1.79 |
| | 03-04-1976 | 2.57 |
| | 09-07-1976 | 2.89 |
| | 03-14-1977 | 2.15 |
| | 09-08-1977 | 3.46 |
| | 03-13-1978 | 1.72 |
| | 09-11-1978 | 1.47 |
| | 03-29-1979 | 1.58 |
| | 09-25-1979 | 3.41 |
| | 03-19-1980 | 1.60 |
| | 09-05-1980 | 3.06 |
| | 03-30-1981 | 1.76 |
| | 09-28-1981 | 3.20 |
| | 03-25-1982 | 1.89 |
| | 09-30-1982 | 2.73 |
| | 03-31-1983 | 1.71 |
| | 09-28-1983 | 2.07 |
| | 03-29-1984 | 1.68 |
| | 09-21-1984 | 2.03 |
| | 03-29-1985 | 1.81 |
| | 09-20-1985 | 3.44 |
| | 03-20-1986 | 2.19 |
| | 09-15-1986 | 3.26 |
| | 03-23-1987 | 2.14 |
| | 09-18-1987 | 3.43 |
| | 03-31-1988 | 1.97 |
| | 09-23-1988 | 3.57 |
| | 03-30-1989 | 2.04 |
| | 09-14-1989 | 2.95 |
| | 03-26-1990 | 2.50 |
| | 09-19-1990 | 3.43 |
| | 03-25-1991 | 2.10 |
| | 09-14-1991 | 2.33 |
| | 03-31-1992 | 1.94 |
| | 09-08-1992 | 3.54 |
| | 03-29-1993 | 1.18 |
| | 03-30-1994 | 1.73 |
| | 03-28-1995 | 1.84 |
| | 03-26-1996 | 1.66 |
| | 03-28-1997 | 1.58 |
| | 08-27-1997 | 2.95 |
| | 10-02-1997 | 2.60 |
| | 10-29-1997 | 2.19 |
| | 12-11-1997 | 2.02 |
| | 01-08-1998 | 2.16 |
| | 02-10-1998 | 2.12 |
| | 03-11-1998 | 2.45 |
| | 04-07-1998 | 1.76 |
| | 05-06-1998 | 2.92 |
| | 06-11-1998 | 1.57 |
| | 07-15-1998 | 2.29 |
| | 08-12-1998 | 3.22 |
| (D-2-6)20dcc-1—Continued | 09-09-1998 | 2.38 |
| | 10-14-1998 | 2.36 |
| | 11-16-1998 | 1.41 |
| | 12-15-1998 | 1.96 |
| | 01-25-1999 | 1.95 |
| | 03-02-1999 | 1.74 |
| | 03-12-1999 | 1.97 |
| | 05-13-1999 | 1.42 |
| | 07-12-1999 | 2.47 |
| | 08-06-1999 | 3.07 |
| | 09-09-1999 | 2.75 |
| | 11-08-1999 | 2.17 |
| | 01-25-2000 | 1.67 |
| | 02-22-2000 | 1.92 |
| | 03-06-2000 | 2.09 |
| | 05-22-2000 | 1.62 |
| | 06-30-2000 | 2.14 |
| | 08-31-2000 | 2.19 |
| (D-2-6)21cdd-1 | 02-24-1999 | 1.49 |
| | 03-15-1999 | .96 |
| | 04-16-1999 | 3.59 |
| | 05-13-1999 | .57 |
| | 06-23-1999 | -.99 |
| | 07-12-1999 | .58 |
| | 08-06-1999 | .30 |
| | 09-09-1999 | .12 |
| | 10-12-1999 | 2.01 |
| | 11-08-1999 | 2.64 |
| | 12-15-1999 | 2.68 |
| | 01-25-2000 | 1.27 |
| | 02-23-2000 | 1.79 |
| | 03-22-2000 | 2.74 |
| | 04-10-2000 | 4.12 |
| | 05-17-2000 | .35 |
| | 07-03-2000 | .94 |
| | 08-01-2000 | 1.46 |
| | 08-31-2000 | 1.37 |
| | 09-20-2000 | 1.91 |
| (D-2-6)21dcc-1 | 02-23-2000 | 7.87 |
| | 03-07-2000 | 7.88 |
| | 04-10-2000 | 7.95 |
| | 05-17-2000 | 6.15 |
| | 07-03-2000 | 5.86 |
| (D-2-6)21dcc-2 | 02-23-2000 | 7.74 |
| | 03-07-2000 | 8.30 |
| | 04-10-2000 | 8.29 |
| | 05-17-2000 | 2.97 |
| | 07-03-2000 | 4.01 |
| | 08-02-2000 | 5.47 |
| | 08-31-2000 | 5.52 |
| | 10-05-2000 | 6.85 |

**Table 3.** Water level in selected wells in Kamas Valley and vicinity, Utah—Continued

| Local well number | Date | Water level | |
|---|---|---|---|
| (D-2-6)21dcd-1 | 02-23-2000 | 11.04 | |
| | 03-07-2000 | 11.35 | |
| | 04-11-2000 | 12.41 | |
| | 05-17-2000 | 4.45 | |
| | 07-03-2000 | 5.50 | |
| | 08-01-2000 | 7.57 | |
| | 08-31-2000 | 7.03 | |
| | 10-05-2000 | 9.27 | |
| (D-2-6)21ddb-1 | 08-27-1997 | 58.75 | |
| | 10-02-1997 | 59.60 | |
| | 10-05-1997 | 59.63 | |
| | 10-10-1997 | 59.39 | |
| | 10-15-1997 | 59.85 | |
| | 10-20-1997 | 60.07 | |
| | 10-25-1997 | 60.33 | |
| | 10-30-1997 | 60.56 | |
| | 10-31-1997 | 60.58 | |
| | 11-05-1997 | 60.80 | |
| | 11-10-1997 | 61.06 | |
| | 11-15-1997 | 61.56 | |
| | 11-20-1997 | 62.11 | |
| | 11-25-1997 | 62.86 | |
| | 11-30-1997 | 63.64 | |
| | 12-05-1997 | 64.43 | |
| | 12-10-1997 | 65.22 | |
| | 12-15-1997 | 65.72 | |
| | 12-20-1997 | 66.46 | |
| | 12-25-1997 | 67.00 | |
| | 12-31-1997 | 67.67 | |
| | 01-05-1998 | 67.99 | |
| | 01-10-1998 | 68.59 | |
| | 01-15-1998 | 69.10 | |
| | 01-20-1998 | 69.53 | |
| | 01-25-1998 | 69.99 | |
| | 01-31-1998 | 70.47 | |
| | 02-05-1998 | 70.83 | |
| | 02-10-1998 | 71.18 | |
| | 02-15-1998 | 71.32 | |
| | 02-20-1998 | 71.68 | |
| | 02-25-1998 | 71.97 | |
| | 02-28-1998 | 72.20 | |
| | 03-05-1998 | 72.35 | |
| | 03-10-1998 | 72.66 | |
| | 03-15-1998 | 72.79 | |
| | 03-20-1998 | 72.94 | |
| | 03-25-1998 | 72.82 | |
| | 03-31-1998 | 72.09 | |
| | 04-05-1998 | 71.53 | |
| | 04-10-1998 | 71.15 | |
| | 04-15-1998 | 71.03 | |
| | 04-20-1998 | 70.98 | |
| (D-2-6)21ddb-1—Continued | 04-25-1998 | 70.91 | |
| | 04-30-1998 | 70.89 | |
| | 05-05-1998 | 70.48 | |
| | 05-10-1998 | 69.91 | |
| | 05-15-1998 | 60.06 | |
| | 05-20-1998 | 68.18 | |
| | 05-25-1998 | 67.22 | |
| | 05-31-1998 | 66.10 | |
| | 06-05-1998 | 64.84 | |
| | 06-10-1998 | 63.55 | |
| | 06-15-1998 | 61.99 | |
| | 06-20-1998 | 60.89 | |
| | 06-25-1998 | 60.07 | |
| | 06-30-1998 | 59.48 | |
| | 07-05-1998 | 58.74 | |
| | 07-10-1998 | 58.01 | |
| | 07-15-1998 | 57.43 | |
| | 07-20-1998 | 56.92 | |
| | 07-25-1998 | 56.80 | |
| | 07-31-1998 | 57.09 | I |
| | 08-05-1998 | 57.68 | I |
| | 08-10-1998 | 58.26 | I |
| | 08-15-1998 | 58.84 | I |
| | 08-20-1998 | 59.42 | |
| | 08-25-1998 | 59.49 | |
| | 08-31-1998 | 59.70 | |
| | 09-05-1998 | 59.90 | |
| | 09-10-1998 | 60.01 | |
| | 09-15-1998 | 60.04 | |
| | 09-20-1998 | 59.80 | |
| | 09-25-1998 | 59.44 | |
| | 09-30-1998 | 59.29 | |
| | 10-05-1998 | 59.37 | |
| | 10-10-1998 | 59.13 | |
| | 10-15-1998 | 59.11 | |
| | 10-20-1998 | 59.49 | |
| | 10-25-1998 | 59.54 | |
| | 10-31-1998 | 60.28 | |
| | 11-05-1998 | 61.06 | |
| | 02-17-1999 | 70.36 | |
| | 03-15-1999 | 70.66 | |
| | 07-12-1999 | 57.22 | |
| (D-2-6)26bad-2 | 10-02-1997 | 120.27 | |
| | 11-05-1997 | 120.40 | |
| | 12-11-1997 | 120.46 | |
| | 01-08-1998 | 120.45 | |
| | 02-10-1998 | 120.51 | |
| | 03-12-1998 | 120.57 | |
| | 04-07-1998 | 119.25 | |
| | 05-06-1998 | 102.37 | |
| | 06-15-1998 | 111.96 | |

**Table 3.** Water level in selected wells in Kamas Valley and vicinity, Utah—Continued

| Local well number | Date | Water level | |
|---|---|---|---|
| (D-2-6)26bad-2—Continued | 07-14-1998 | 111.74 | |
| | 08-12-1998 | 116.89 | |
| | 09-09-1998 | 118.87 | |
| | 11-13-1998 | 120.05 | |
| | 12-09-1998 | 120.32 | |
| | 01-25-1999 | 119.40 | |
| | 02-16-1999 | 119.28 | |
| | 03-15-1999 | 119.38 | |
| | 04-13-1999 | 117.90 | |
| | 05-11-1999 | 104.25 | |
| | 06-16-1999 | 110.55 | |
| | 07-12-1999 | 116.30 | |
| | 08-06-1999 | 118.38 | |
| | 10-12-1999 | 120.44 | |
| | 12-22-1999 | 120.82 | |
| | 01-24-2000 | 120.67 | |
| | 03-17-2000 | 120.56 | |
| | 04-10-2000 | 119.90 | |
| | 05-17-2000 | 119.66 | |
| | 07-03-2000 | 120.00 | |
| | 08-31-2000 | 120.86 | |
| (D-2-6)27cbc-1 | 02-24-1999 | 14.30 | |
| | 03-15-1999 | 13.87 | |
| | 07-12-1999 | 6.04 | |
| (D-2-6)27ccc-1 | 04-16-1999 | 12.64 | |
| | 05-11-1999 | 11.95 | |
| | 06-23-1999 | 4.55 | |
| | 07-12-1999 | | F |
| | 08-06-1999 | | F |
| | 09-09-1999 | | F |
| | 10-12-1999 | 1.99 | |
| | 11-08-1999 | 5.75 | |
| | 12-15-1999 | 8.97 | |
| | 01-25-2000 | 11.15 | |
| | 02-23-2000 | 12.25 | |
| | 03-22-2000 | 13.27 | |
| | 04-11-2000 | 14.05 | |
| | 05-22-2000 | 5.35 | |
| | 06-30-2000 | | F |
| | 08-02-2000 | | F |
| | 08-31-2000 | | F |
| | 09-20-2000 | .33 | |
| (D-2-6)28aab-3 | 11-25-1998 | 30.43 | |
| | 11-30-1998 | 30.87 | |
| | 12-05-1998 | 31.25 | |
| | 12-10-1998 | 31.80 | |
| | 12-15-1998 | 32.04 | |
| | 12-20-1998 | 32.30 | |
| | 12-25-1998 | 32.84 | |
| (D-2-6)28aab-3—Continued | 12-31-1998 | 33.14 | |
| | 01-05-1999 | 33.49 | |
| | 01-10-1999 | 33.85 | |
| | 01-15-1999 | 34.16 | |
| | 01-20-1999 | 34.31 | |
| | 01-25-1999 | 34.41 | |
| | 01-31-1999 | 34.52 | |
| | 02-05-1999 | 34.66 | |
| | 02-10-1999 | 34.55 | |
| | 02-15-1999 | 33.97 | |
| | 02-20-1999 | 34.14 | |
| | 02-25-1999 | 34.39 | |
| | 02-28-1999 | 34.61 | |
| | 03-05-1999 | 34.42 | |
| | 03-10-1999 | 34.37 | |
| | 03-15-1999 | 34.34 | |
| | 03-20-1999 | 32.80 | |
| | 03-25-1999 | 32.98 | |
| | 03-31-1999 | 33.64 | |
| | 04-05-1999 | 34.32 | |
| | 04-10-1999 | 34.82 | |
| | 04-15-1999 | 35.20 | |
| | 04-20-1999 | 35.45 | |
| | 04-25-1999 | 35.20 | |
| | 04-30-1999 | 34.77 | |
| | 05-05-1999 | 33.05 | |
| | 05-10-1999 | 31.48 | |
| | 05-15-1999 | 31.14 | |
| | 05-20-1999 | 30.49 | |
| | 05-25-1999 | 27.54 | |
| | 05-31-1999 | 28.42 | |
| | 06-05-1999 | 29.16 | |
| | 06-10-1999 | 29.83 | |
| | 06-15-1999 | 29.86 | |
| | 06-20-1999 | 29.37 | |
| | 06-25-1999 | 29.35 | |
| | 06-30-1999 | 24.80 | |
| | 07-05-1999 | 26.20 | |
| | 07-10-1999 | 27.61 | |
| | 07-15-1999 | 28.51 | |
| | 07-20-1999 | 22.70 | |
| | 07-25-1999 | 23.70 | |
| | 07-31-1999 | 24.60 | |
| | 08-05-1999 | 25.50 | |
| | 08-10-1999 | 25.72 | |
| | 08-15-1999 | 27.33 | |
| | 08-20-1999 | 27.85 | |
| | 08-25-1999 | 22.58 | |
| | 08-31-1999 | 26.11 | |
| | 09-05-1999 | 27.10 | |
| | 09-09-1999 | 27.42 | |
| | 09-10-1999 | 27.38 | |

**Table 3.** Water level in selected wells in Kamas Valley and vicinity, Utah—Continued

| Local well number | Date | Water level | |
|---|---|---|---|
| (D-2-6)28aab-3—Continued | 09-15-1999 | 27.77 | |
| | 09-20-1999 | 28.13 | |
| | 09-25-1999 | 28.47 | |
| | 09-30-1999 | 28.97 | |
| | 10-05-1999 | 29.24 | |
| | 10-10-1999 | 29.56 | |
| | 10-15-1999 | 29.86 | |
| | 10-20-1999 | 30.50 | |
| | 10-25-1999 | 30.83 | |
| | 10-31-1999 | 31.26 | |
| | 11-05-1999 | 31.59 | |
| | 11-10-1999 | 31.74 | |
| | 11-15-1999 | 31.60 | |
| | 11-20-1999 | 31.54 | |
| | 11-25-1999 | 31.74 | |
| | 11-30-1999 | 31.76 | |
| | 12-05-1999 | 32.14 | |
| | 12-10-1999 | 32.46 | I |
| | 12-15-1999 | 32.87 | I |
| | 12-20-1999 | 33.14 | |
| | 12-25-1999 | 33.49 | |
| | 12-31-1999 | 33.74 | |
| | 01-05-2000 | 34.05 | |
| | 01-10-2000 | 34.27 | |
| | 01-15-2000 | 34.60 | |
| | 01-20-2000 | 34.18 | |
| | 01-25-2000 | 33.93 | |
| | 01-31-2000 | 34.10 | |
| | 02-05-2000 | 34.52 | |
| | 02-10-2000 | 34.78 | |
| | 02-15-2000 | 34.94 | |
| | 02-20-2000 | 34.69 | |
| | 02-25-2000 | 34.60 | |
| | 02-29-2000 | 34.75 | |
| | 03-05-2000 | 34.79 | |
| | 03-10-2000 | 34.92 | |
| | 03-15-2000 | 35.12 | |
| | 03-20-2000 | 35.17 | |
| | 03-25-2000 | 35.34 | |
| | 03-31-2000 | 35.54 | |
| | 04-05-2000 | 35.72 | |
| | 04-10-2000 | 35.95 | |
| | 04-15-2000 | 35.32 | |
| | 04-20-2000 | 34.90 | |
| | 04-25-2000 | 34.84 | |
| | 04-30-2000 | 34.37 | |
| | 05-05-2000 | 33.16 | |
| | 05-10-2000 | 32.08 | |
| | 05-15-2000 | 31.40 | |
| | 05-20-2000 | 25.82 | |
| | 05-25-2000 | 27.70 | |
| | 05-31-2000 | 28.48 | |
| (D-2-6)28aab-3—Continued | 06-05-2000 | 28.69 | |
| | 06-10-2000 | 26.55 | |
| | 06-15-2000 | 28.09 | |
| | 06-20-2000 | 28.00 | |
| | 06-25-2000 | 28.58 | |
| | 06-30-2000 | 27.54 | |
| | 07-05-2000 | 27.84 | |
| | 07-10-2000 | 28.26 | |
| | 07-15-2000 | 28.44 | |
| | 07-20-2000 | 26.75 | I |
| | 07-25-2000 | 28.51 | |
| | 07-31-2000 | 27.12 | |
| | 08-05-2000 | 29.20 | |
| | 08-10-2000 | 27.44 | |
| | 08-15-2000 | 28.60 | |
| | 08-20-2000 | 28.66 | |
| | 08-25-2000 | 28.74 | |
| | 08-31-2000 | 27.54 | |
| | 09-05-2000 | 28.02 | |
| | 09-10-2000 | 28.90 | |
| | 09-15-2000 | 29.58 | |
| | 09-20-2000 | 30.20 | |
| | 09-25-2000 | 30.48 | |
| | 09-30-2000 | 30.57 | |
| (D-2-6)28add-1 | 02-24-1999 | 35.73 | |
| | 03-15-1999 | 35.99 | |
| | 05-11-1999 | 35.54 | |
| | 06-23-1999 | 33.45 | |
| | 07-13-1999 | 30.11 | |
| | 09-09-1999 | 27.86 | |
| | 10-12-1999 | 20.65 | |
| | 11-08-1999 | 23.84 | |
| | 01-25-2000 | 29.17 | |
| | 02-23-2000 | 30.20 | |
| | 03-22-2000 | 31.22 | |
| | 04-11-2000 | 32.12 | |
| | 05-17-2000 | 35.31 | |
| | 06-30-2000 | 31.29 | |
| | 08-01-2000 | 34.20 | |
| | 08-31-2000 | 31.72 | |
| | 09-25-2000 | 35.02 | |
| (D-2-6)28ccc-3 | 03-15-1915 | | dry |
| | 08-10-1915 | 16.5 | |
| | 04-04-1938 | 26.93 | |
| | 05-31-1938 | 23.10 | |
| | 08-27-1938 | 23.58 | |
| | 10-20-1938 | 19.78 | |
| | 12-13-1938 | 25.44 | |
| | 03-21-1939 | 28.88 | |
| | 05-01-1939 | 23.36 | |

**Table 3.** Water level in selected wells in Kamas Valley and vicinity, Utah—Continued

| Local well number | Date | Water level |
|---|---|---|
| (D-2-6)28ccc-3—Continued | 06-22-1939 | 9.23 |
| | 08-29-1939 | 24.97 |
| | 10-30-1939 | 25.29 |
| | 11-20-1939 | 27.36 |
| | 01-08-1940 | 28.95 |
| | 02-14-1940 | dry |
| | 04-16-1940 | dry |
| | 05-15-1940 | 19.60 |
| | 06-13-1940 | 14.2 |
| | 06-26-1940 | 19.28 |
| | 07-20-1940 | 23.84 |
| | 08-20-1940 | 26.50 |
| | 08-26-1940 | dry |
| | 09-16-1940 | 27.02 |
| | 10-17-1940 | 23.92 |
| | 11-14-1940 | 22.06 |
| | 11-30-1940 | 25.72 |
| | 12-16-1940 | 27.74 |
| | 01-12-1941 | 29.05 |
| | 03-14-1941 | dry |
| | 04-16-1941 | dry |
| | 05-16-1941 | 25.20 |
| | 06-14-1941 | 7.9 |
| | 07-16-1941 | 16.54 |
| | 08-04-1941 | 18.82 |
| | 08-16-1941 | 20.16 |
| | 09-03-1941 | 21.14 |
| | 09-16-1941 | 22.74 |
| | 09-27-1941 | 24.12 |
| | 10-13-1941 | 20.83 |
| | 11-10-1941 | 23.30 |
| | 11-24-1941 | 24.26 |
| | 12-15-1941 | 24.83 |
| | 01-13-1942 | 27.8 |
| | 02-16-1942 | 28.72 |
| | 03-09-1942 | 28.68 |
| | 03-16-1942 | 28.40 |
| | 04-16-1942 | 25.96 |
| | 05-15-1942 | 27.50 |
| | 06-15-1942 | 11.14 |
| | 07-15-1942 | 14.70 |
| | 07-24-1942 | 14.82 |
| | 08-15-1942 | 15.30 |
| | 09-14-1942 | 24.22 |
| | 10-15-1942 | 22.60 |
| | 10-21-1942 | 20.90 |
| | 11-16-1942 | 25.72 |
| | 12-12-1942 | 26.64 |
| | 12-16-1942 | 27.27 |
| | 01-13-1943 | 28.80 |
| | 02-20-1943 | 24.22 |
| | 03-31-1943 | 21.54 |
| (D-2-6)28ccc-3—Continued | 04-18-1943 | 25.34 |
| | 05-18-1943 | 16.90 |
| | 06-17-1943 | 7.80 |
| | 07-20-1943 | 16.46 |
| | 08-13-1943 | 19.60 |
| | 09-12-1943 | 22.05 |
| | 09-17-1943 | 22.70 |
| | 10-15-1943 | 20.10 |
| | 11-17-1943 | 25.54 |
| | 12-10-1943 | 27.00 |
| | 04-14-1944 | 26.65 |
| | 12-13-1944 | 25.67 |
| | 03-23-1945 | dry |
| | 11-21-1945 | 23.70 |
| | 03-30-1946 | 25.79 |
| | 12-12-1946 | 26.13 |
| | 04-02-1947 | 27.08 |
| | 12-15-1947 | 26.44 |
| | 03-26-1948 | dry |
| | 01-12-1949 | 26.37 |
| | 04-04-1949 | 21.50 |
| | 12-06-1949 | 26.46 |
| | 04-06-1950 | 21.77 |
| | 12-12-1950 | 24.40 |
| | 04-04-1951 | dry |
| | 09-12-1951 | 14.62 |
| | 12-27-1951 | 26.52 |
| | 04-17-1952 | 13.37 |
| | 12-29-1952 | 25.90 |
| | 04-03-1953 | 27.22 |
| | 12-09-1953 | 25.44 |
| | 04-19-1954 | dry |
| | 12-08-1954 | 23.65 |
| | 03-31-1955 | dry |
| | 12-12-1955 | 25.35 |
| | 03-25-1957 | dry |
| | 12-09-1957 | 26.14 |
| | 03-17-1958 | 27.45 |
| | 12-18-1958 | 26.48 |
| | 03-20-1959 | dry |
| | 12-09-1959 | 28.19 |
| | 03-21-1960 | dry |
| | 11-30-1960 | dry |
| | 03-21-1961 | dry |
| | 01-12-1962 | dry |
| | 07-08-1998 | 8.06 |
| | 08-13-1998 | 5.86 |
| | 09-09-1998 | 6.00 |
| | 10-14-1998 | 16.64 |
| | 11-16-1998 | 22.89 |
| | 12-15-1998 | 25.27 |
| | 01-25-1999 | 25.17 |

**Table 3.** Water level in selected wells in Kamas Valley and vicinity, Utah—Continued

| Local well number | Date | Water level | |
|---|---|---|---|
| (D-2-6)28ccc-3—Continued | 02-16-1999 | 23.75 | |
| | 03-12-1999 | 24.89 | |
| | 04-14-1999 | 24.78 | |
| | 05-11-1999 | 19.48 | |
| | 06-21-1999 | 7.98 | |
| | 07-12-1999 | 7.73 | |
| | 08-06-1999 | 6.71 | |
| | 09-09-1999 | 11.06 | |
| | 10-12-1999 | 20.87 | |
| | 01-25-2000 | 24.67 | |
| | 02-29-2000 | 26.37 | |
| | 03-22-2000 | 27.00 | |
| | 04-11-2000 | 27.27 | |
| | 05-22-2000 | 8.91 | |
| | 06-30-2000 | 7.21 | |
| | 08-02-2000 | 9.03 | |
| | 08-31-2000 | 10.12 | |
| | 09-25-2000 | 17.66 | |
| (D-2-6)28ddc-2 | 04-04-1938 | 12.6 | |
| | 05-31-1938 | 8.4 | |
| | 08-27-1938 | 3.0 | |
| | 10-20-1938 | 4.2 | |
| | 12-13-1938 | 9.38 | |
| | 03-21-1939 | 15.86 | |
| | 05-01-1939 | 8.83 | |
| | 06-22-1939 | .07 | |
| | 08-29-1939 | 6.35 | |
| | 10-30-1939 | 8.81 | |
| | 01-08-1940 | 13.12 | |
| | 02-14-1940 | 16.04 | |
| | 03-19-1940 | 15.9 | |
| | 04-03-1940 | 14.46 | |
| | 05-15-1940 | 9.50 | |
| | 06-13-1940 | 1.30 | |
| | 06-26-1940 | 2.16 | |
| | 07-20-1940 | 4.90 | |
| | 08-20-1940 | 9.40 | |
| | 08-26-1940 | 10.08 | |
| | 09-16-1940 | 11.24 | |
| | 10-17-1940 | 7.35 | |
| | 11-14-1940 | 10.00 | |
| | 11-30-1940 | 10.24 | |
| | 12-16-1940 | 12.80 | |
| | 03-14-1941 | | dry |
| | 04-16-1941 | 17.50 | |
| | 05-16-1941 | 12.9 | |
| | 06-14-1941 | .4 | |
| | 07-16-1941 | .3 | |
| | 08-04-1941 | .64 | |
| | 08-16-1941 | 1.34 | |
| | 09-03-1941 | 2.92 | |

| Local well number | Date | Water level | |
|---|---|---|---|
| (D-2-6)28ddc-2—Continued | 09-16-1941 | 4.50 | |
| | 09-27-1941 | 4.11 | |
| | 10-13-1941 | 4.28 | |
| | 11-10-1941 | 7.74 | |
| | 11-24-1941 | 8.52 | |
| | 12-15-1941 | 10.8 | |
| | 01-13-1942 | 15.60 | |
| | 02-16-1942 | 15.40 | |
| | 04-16-1942 | 13.82 | |
| | 05-15-1942 | 14.03 | |
| | 06-15-1942 | .76 | |
| | 07-15-1942 | -.5 | |
| | 07-24-1942 | -.22 | |
| | 08-15-1942 | 1.56 | |
| | 09-15-1942 | 5.02 | |
| | 10-15-1942 | 6.83 | |
| | 10-21-1942 | 7.24 | |
| | 11-16-1942 | 9.82 | |
| | 12-12-1942 | 10.78 | |
| | 01-13-1943 | 19.70 | |
| | 03-31-1943 | 11.65 | |
| | 04-18-1943 | 10.92 | |
| | 05-18-1943 | 8.34 | |
| | 06-18-1943 | | F |
| | 07-20-1943 | | F |
| | 08-13-1943 | | F |
| | 09-14-1943 | 1.70 | |
| | 09-17-1943 | 2.10 | |
| | 10-15-1943 | 2.40 | |
| | 11-17-1943 | 7.50 | |
| | 12-10-1943 | 9.98 | |
| | 04-14-1944 | 11.84 | |
| | 12-13-1944 | 9.50 | |
| | 11-21-1945 | 5.66 | |
| | 03-30-1946 | 12.88 | |
| | 12-12-1946 | 8.38 | |
| | 07-08-1998 | 1.62 | |
| | 08-13-1998 | 1.64 | |
| | 09-09-1998 | 1.65 | |
| | 10-14-1998 | 1.75 | |
| | 11-13-1998 | 5.01 | |
| | 12-14-1998 | 8.30 | |
| | 01-25-1999 | 11.40 | |
| | 02-16-1999 | 11.44 | |
| (D-2-6)29ada-1 | 08-23-1966 | 3.86 | |
| | 07-08-1998 | 3.60 | |
| | 08-13-1998 | 4.09 | |
| | 09-14-1998 | 3.74 | |
| | 11-16-1998 | 3.90 | |
| | 12-15-1998 | 5.08 | |
| | 03-12-1999 | 3.96 | |

**Table 3.** Water level in selected wells in Kamas Valley and vicinity, Utah—Continued

| Local well number | Date | Water level |
|---|---|---|
| (D-2-6)29ada-1—Continued | 04-16-1999 | 5.26 |
| | 05-13-1999 | 3.44 |
| | 06-23-1999 | 3.76 |
| | 07-12-1999 | 3.86 |
| | 08-06-1999 | 4.23 |
| | 09-14-1999 | 5.07 |
| | 10-13-1999 | 5.03 |
| | 11-08-1999 | 4.84 |
| | 01-25-2000 | 3.70 |
| | 03-22-2000 | 4.52 |
| | 04-12-2000 | 5.80 |
| | 07-03-2000 | 5.42 |
| | 08-02-2000 | 4.10 |
| | 08-31-2000 | 3.63 |
| | 09-25-2000 | 4.16 |
| (D-2-6)29bcb-1 | 02-24-1999 | 5.19 |
| | 03-12-1999 | 4.37 |
| | 04-16-1999 | 4.80 |
| | 05-13-1999 | .78 |
| | 06-21-1999 | 2.01 |
| | 07-12-1999 | 2.48 |
| | 08-06-1999 | 1.63 |
| | 09-09-1999 | 1.74 |
| | 10-13-1999 | 2.62 |
| | 11-08-1999 | 3.62 |
| | 12-15-1999 | 5.71 |
| | 01-25-2000 | 4.25 |
| | 02-29-2000 | 4.70 |
| | 03-22-2000 | 5.20 |
| | 04-11-2000 | 5.83 |
| | 05-22-2000 | 2.82 |
| | 06-30-2000 | 2.08 |
| | 08-02-2000 | 1.93 |
| | 08-31-2000 | 1.82 |
| | [1]11-28-2000 | 25.70 |
| (D-2-6)29dcd-1 | 07-09-1998 | 46.07 |
| | 08-13-1998 | 47.27 |
| | 09-09-1998 | 43.27 |
| | 10-14-1998 | 50.52 |
| | 11-16-1998 | 54.63 |
| | 12-15-1998 | 55.64 |
| | 01-25-1999 | 54.24 |
| | 02-16-1999 | 54.25 |
| | 03-12-1999 | 53.75 |
| | 04-14-1999 | 53.75 |
| | 05-11-1999 | 54.72 |
| | 06-21-1999 | 46.96 |
| | 07-12-1999 | 43.90 |
| | 08-06-1999 | 44.41 |
| | 09-09-1999 | 44.70 |
| | 10-12-1999 | 51.56 |
| (D-2-6)29dcd-1—Continued | 11-08-1999 | 53.32 |
| | 12-15-1999 | 54.11 |
| | 01-25-2000 | 55.41 |
| | 02-29-2000 | 56.68 |
| | 03-22-2000 | 56.84 |
| | 04-11-2000 | 55.95 |
| | 05-22-2000 | 50.60 |
| | 06-30-2000 | 44.32 |
| | 08-02-2000 | 46.20 |
| | 08-31-2000 | 47.47 |
| | 09-25-2000 | 51.59 |
| (D-2-6)29ddd-2 | 07-08-1998 | 6.07 |
| | 08-13-1998 | 5.27 |
| | 09-09-1998 | 5.26 |
| | 10-14-1998 | 12.89 |
| | 11-16-1998 | 18.99 |
| | 12-15-1998 | 21.35 |
| | 01-25-1999 | 21.20 |
| | 02-16-1999 | 19.56 |
| (D-2-6)33abb-1 | 07-09-1998 | 2.20 |
| | 08-13-1998 | 1.80 |
| | 09-09-1998 | 2.12 |
| | 10-14-1998 | 4.18 |
| | 11-16-1998 | 8.23 |
| | 12-14-1998 | 11.19 |
| | 01-25-1999 | 14.54 |
| | 02-16-1999 | 14.47 |
| | 03-12-1999 | 15.19 |
| | 04-14-1999 | 14.85 |
| | 05-11-1999 | 12.35 |
| | 06-21-1999 | 3.02 |
| | 07-12-1999 | 2.92 |
| | 08-06-1999 | 2.04 |
| | 09-09-1999 | 2.45 |
| | 10-12-1999 | 5.90 |
| | 11-08-1999 | 8.35 |
| | 12-15-1999 | 11.63 |
| | 02-03-2000 | 13.82 |
| | 02-29-2000 | 14.41 |
| | 03-22-2000 | 15.50 |
| | 04-11-2000 | 16.21 |
| | 05-22-2000 | 4.15 |
| | 06-30-2000 | 2.90 |
| | 08-02-2000 | 2.60 |
| | 08-31-2000 | 2.77 |
| | 09-25-2000 | 4.97 |
| (D-2-6)33ada-1 | 07-08-1998 | 2.58 |
| | 08-13-1998 | 2.08 |
| | 09-09-1998 | 2.39 |

**Table 3.** Water level in selected wells in Kamas Valley and vicinity, Utah—Continued

| Local well number | Date | Water level |
|---|---|---|
| (D-2-6)33ada-1—Continued | 10-14-1998 | 11.54 |
| | 12-14-1998 | 23.35 |
| | 01-25-1999 | 26.75 |
| | 03-12-1999 | 27.48 |
| | 04-14-1999 | 28.30 |
| | 05-11-1999 | 24.78 |
| | 06-23-1999 | 2.61 |
| | 07-12-1999 | 2.58 |
| | 08-06-1999 | 2.68 |
| | 09-09-1999 | 3.92 |
| | 10-12-1999 | 13.93 |
| | 11-08-1999 | 20.28 |
| | 01-25-2000 | 26.54 |
| | 02-29-2000 | 27.02 |
| | 04-12-2000 | 29.59 |
| | 05-22-2000 | 4.02 |
| | 06-30-2000 | 1.97 |
| | 08-02-2000 | 2.00 |
| | 09-01-2000 | 5.39 |
| | 10-05-2000 | 17.93 |
| (D-2-6)33cbb-1 | 07-08-1998 | 21.75 |
| | 08-13-1998 | 32.59 |
| | 09-09-1998 | 21.41 |
| | 10-14-1998 | 45.74 |
| | 11-16-1998 | 57.33 |
| | 12-15-1998 | 62.48 |
| | 01-25-1999 | 68.35 |
| | 02-16-1999 | 68.66 |
| | 03-12-1999 | 68.93 |
| | 04-14-1999 | 67.46 |
| | 05-13-1999 | 62.86 |
| | 06-21-1999 | 33.50 |
| | 07-12-1999 | 21.94 |
| | 08-06-1999 | 29.57 |
| | 09-09-1999 | 30.95 |
| | 09-09-1999 | 31.20 |
| | 10-12-1999 | 53.26 |
| | 11-08-1999 | 60.01 |
| | 12-15-1999 | 64.49 |
| | 01-25-2000 | 69.14 |
| | 02-29-2000 | 69.55 |
| | 03-22-2000 | 69.48 |
| | 04-11-2000 | 70.25 |
| | 05-22-2000 | 46.17 |
| | 06-30-2000 | 28.97 |
| | 08-02-2000 | 20.00 |
| | 08-31-2000 | 36.48 |
| | 09-25-2000 | 49.81 |
| (D-2-6)34acc-1 | 02-24-1999 | 123.23 |
| | 03-15-1999 | 123.94 |
| (D-2-6)34acc-1—Continued | 04-16-1999 | 123.82 |
| | 05-11-1999 | 123.70 |
| | 06-23-1999 | 107.77 |
| | 07-12-1999 | 104.80 |
| | 08-06-1999 | 102.81 |
| | 09-09-1999 | 101.70 |
| | 10-17-1999 | 110.20 |
| | 11-08-1999 | 114.79 |
| | 12-15-1999 | 118.87 |
| | 02-03-2000 | 122.27 |
| (D-2-6)34cbc-2 | 02-16-1999 | 53.22 |
| | 03-12-1999 | 54.67 |
| | 04-16-1999 | 52.43 |
| | 05-11-1999 | 52.28 |
| | 06-23-1999 | 4.70 |
| | 07-12-1999 | 5.52 |
| | 08-06-1999 | 4.59 |
| | 09-09-1999 | 7.12 |
| | 10-12-1999 | 31.61 |
| | 11-08-1999 | 39.39 |
| | 01-25-2000 | 48.91 |
| | 02-29-2000 | 50.35 |
| | 03-22-2000 | 51.76 |
| | 04-11-2000 | 53.53 |
| | 05-22-2000 | 6.87 |
| | 06-30-2000 | 4.41 |
| | 08-02-2000 | 4.17 |
| | 08-31-2000 | 8.33 |
| | 09-25-2000 | 29.53 |
| (D-2-6)34dcc-1 | 11-20-1997 | 51.94 |
| | 12-11-1997 | 55.56 |
| | 01-08-1998 | 59.16 |
| | 02-10-1998 | 62.61 |
| | 03-11-1998 | 64.88 |
| | 04-07-1998 | 64.49 |
| | 05-06-1998 | 62.22 |
| | 06-11-1998 | 21.23 |
| | 07-15-1998 | 15.03 |
| | 08-12-1998 | 12.21 |
| | 09-09-1998 | 24.00 |
| | 10-14-1998 | 40.03 |
| | 11-16-1998 | 49.80 |
| | 12-14-1998 | 54.65 |
| | 01-25-1999 | 60.58 |
| | 02-16-1999 | 63.10 |
| | 03-15-1999 | 65.07 |
| | 04-14-1999 | 64.89 |
| | 05-11-1999 | 64.42 |
| | 06-23-1999 | 15.97 |
| | 07-12-1999 | 17.28 |

**Table 3.** Water level in selected wells in Kamas Valley and vicinity, Utah—Continued

| Local well number | Date | Water level |
|---|---|---|
| (D-2-6)34dcc-1—Continued | 08-06-1999 | 15.13 |
| | 09-09-1999 | 17.75 |
| | 10-12-1999 | 39.44 |
| | 11-08-1999 | 48.34 |
| | 12-15-1999 | 55.14 |
| | 02-03-2000 | 61.58 |
| | 02-29-2000 | 63.69 |
| | 03-22-2000 | 65.21 |
| | 04-11-2000 | 66.17 |
| | 05-22-2000 | 24.94 |
| | 06-30-2000 | 15.46 |
| | 08-01-2000 | 14.97 |
| | 08-31-2000 | 19.03 |
| | 09-25-2000 | 36.32 |
| (D-3-6)3bdb-1 | 02-24-1999 | 88.30 |
| | 03-12-1999 | 89.72 |
| | 04-16-1999 | 91.73 |
| | 05-11-1999 | 92.17 |
| | 06-23-1999 | 53.01 |
| | 07-12-1999 | 45.82 |
| | 07-06-1999 | 42.15 |
| | 09-09-1999 | 49.46 |
| | 10-12-1999 | 51.54 |
| | 11-08-1999 | 70.50 |
| | 12-15-2000 | 80.20 |
| | 02-03-2000 | 86.71 |
| | 02-29-2000 | 88.95 |
| | 03-22-2000 | 90.75 |
| | 04-11-2000 | 92.32 |
| | 03-22-2000 | 90.75 |
| | 04-11-2000 | 92.32 |
| | 05-22-2000 | 41.73 |
| | 06-30-2000 | 43.34 |
| | 08-02-2000 | 43.33 |
| | 08-31-2000 | 50.23 |
| | 09-25-2000 | 62.33 |

[1]Well deepened from 84 to 290 feet.

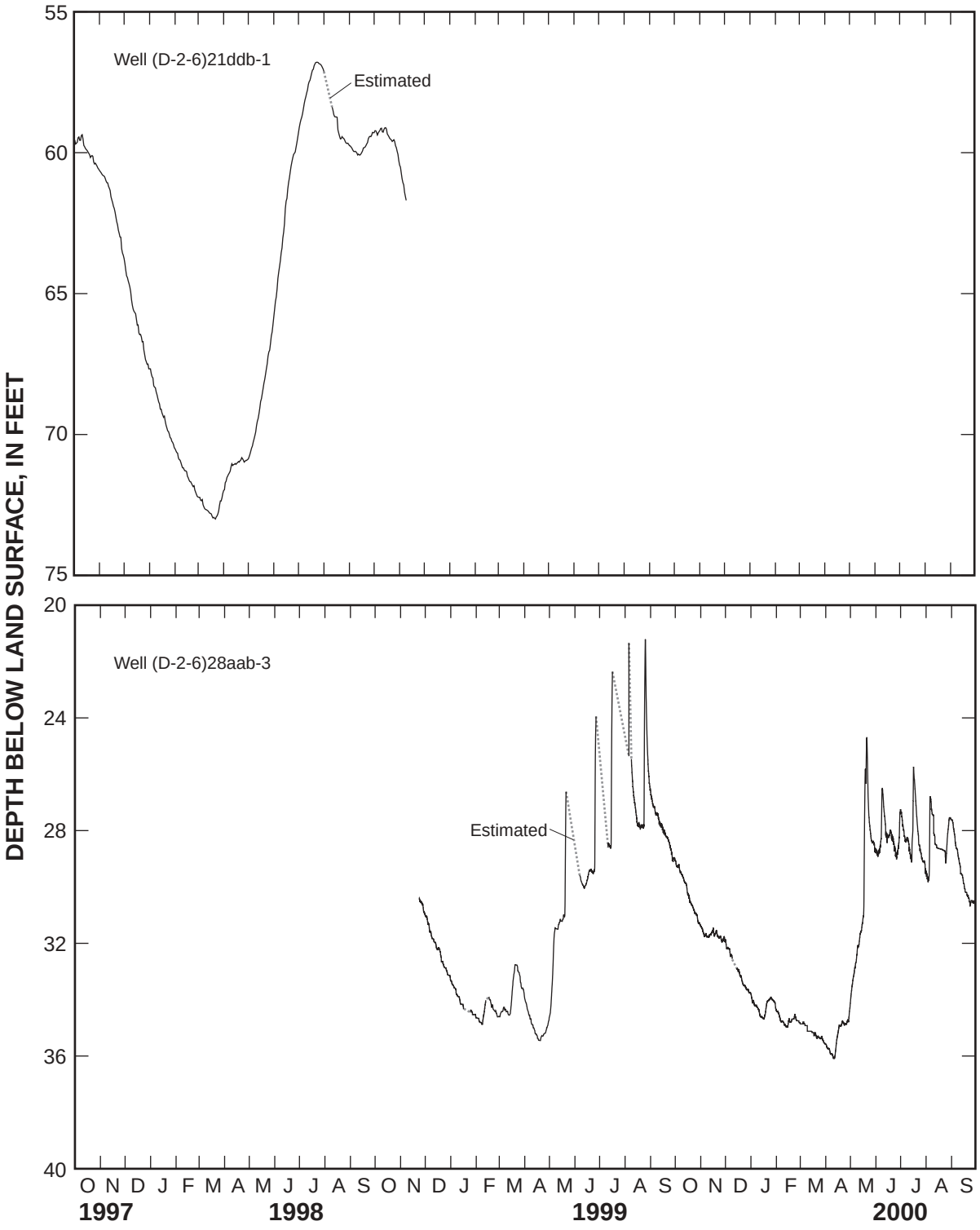


**Figure 2.** Water-level fluctuations in two wells, Kamas Valley, Utah.

**Table 4.** Discharge and drawdown of water from selected wells in Kamas Valley and vicinity, Utah

[All information reported in table is based on drillers' logs unless otherwise noted; gal/min, gallons per minute]

Local well number: See figure 1 for an explanation of the numbering system used for hydrologic-data sites in Utah.
Formation: Modified from information on drillers' log. ALVM, unconsolidated deposits; NGGT, Nugget Sandstone; TCRK, Twin Creek Limestone; KLVN, Kelvin Formation; WDSD, Woodside Formation; KTLY, Keetley volcanics; HMBG, Humbug Formation; WEBR, Weber Sandstone; PLZC, Paleozoic carbonates.
Field checked: N, well not visited by U.S. Geological Survey personnel and not included in table 1; Y, location and well diameter verified by U.S. Geological Survey, additional construction information in table 1; A, discharge, drawdown, and pumping period measured by U.S. Geological Survey, additional construction information in table 1.

| Local well number | Formation | Date discharge measured | Discharge (gal/min) | Drawdown (feet) | Pumping period (hours) | Diameter of interval (inches) | Field checked |
|---|---|---|---|---|---|---|---|
| **Unconsolidated deposits** | | | | | | | |
| (D-1-5)15aad-1 | ALVM | 08-03-1995 | 20 | 12 | 1 | 8 | N |
| (D-1-5)25bdc-1 | ALVM | 12-10-1969 | 30 | 21 | 3 | 6 | N |
| (D-1-5)25dbc-1 | ALVM | 11-1990 | 30 | 30 | 4 | 6 | N |
| (D-1-6)21cbb-1 | ALVM | 12-01-1980 | 30 | 0 | 2 | 8 | Y |
| (D-1-6)21ddd-1 | ALVM | 1990 | 40 | 6 | 1 | 6 | N |
| (D-1-6)27bcb-1 | ALVM | 10-22-1999 | 12 | 5 | 4 | 5 | N |
| (D-1-6)28 | ALVM | 08-10-1990 | 15 | 10 | 2 | 6 | N |
| (D-1-6)28cba-1 | ALVM | 07-17-2000 | 15 | 5.34 | 4 | 5 | A |
| (D-1-6)29cbd-1 | ALVM | 11-27-1990 | 20 | 15 | 5 | 8 | Y |
| (D-1-6)29ccc-1 | ALVM | 11-02-2000 | 11 | 21.89 | 1.4 | 6 | A |
| (D-1-6)34cca-1 | ALVM | 05-14-1992 | 20 | 30 | 1 | 6 | N |
| (D-2-6)5ada-1 | ALVM | 06-22-2000 | 35 | 1.20 | 3.2 | 8 | A |
| (D-2-6)5dab-1 | ALVM | 07-13-2000 | 15 | 1.13 | 1.8 | 5 | A |
| (D-2-6)19bac-1 | ALVM | 11-29-1964 | 60 | 10 | 8 | 12 | Y |
| (D-2-6)21cdd-1 | ALVM | 11-17-1977 | 37 | 6 | 1 | 6 | Y |
| (D-2-6)21dcc-2 | ALVM | 10-02-2000 | 16 | 4.04 | .6 | 4.5 | A |
| (D-2-6)21ddc-1 | ALVM | 12-12-1998 | 20 | 3 | 4 | 5 | N |
| (D-2-6)28cda-1 | ALVM | 09-09-1981 | 100 | 2 | 8 | 8 | N |
| (D-2-6)29bcb-1 | [1]ALVM | 12-20-1998 | 100 | 5 | 2 | 6 | Y |
| (D-2-6)29bcc-1 | ALVM | 05-05-1984 | 30 | 10 | 3 | 8 | N |
| (D-2-6)29cbb-1 | ALVM | 02-05-1993 | 30 | 42 | 1 | 6 | N |
| (D-2-6)30aaa-1 | ALVM | 08-26-1993 | 10 | 125 | 3 | 6 | N |
| (D-2-6)30aad-2 | ALVM | 09-04-2000 | 20 | 57 | 1 | 8 | N |
| (D-2-6)33abb-1 | ALVM | 04-09-1961 | 6 | 40 | 4 | 6 | Y |
| **Consolidated rock** | | | | | | | |
| (D-1-5)13dba-1 | NGGT | 12-18-1995 | 20 | 33 | 1 | 5 | N |
| (D-1-5)13dcb-1 | TCRK | 04-08-1996 | 100 | 127 | 1 | 8 | N |
| (D-1-5)15acb-1 | KLVN | 10-10-1996 | 35 | 90 | 10 | 6 | Y |
| (D-1-6)15acc-1 | WDSD | 08-20-1998 | 37 | 20 | 24 | 5.5 | Y |
| (D-1-6)17cca-2 | KTLY | 08-11-1981 | 11 | 6 | 13 | 6 | Y |
| (D-1-6)19bbc-1 | KTLY | 09-21-1999 | 12 | 5 | 4 | 8 | N |
| (D-1-6)19caa-1 | KTLY | 11-01-2000 | 18 | 5.51 | 2 | 4.5 | A |
| (D-1-6)20bcb-1 | KTLY | 06-01-1970 | 3 | 100 | 4 | 6 | Y |
| (D-1-6)22bdc-1 | WDSD | 02-14-1998 | 240 | 120 | 35 | 16 | Y |
| (D-1-6)22dbc-1 | HMBG | 10-11-1998 | 650 | 300 | 72 | 6 | Y |

**Table 4.** Discharge and drawdown of water from selected wells in Kamas Valley and vicinity, Utah—Continued

| Local well number | Formation | Date discharge measured | Discharge (gal/min) | Drawdown (feet) | Pumping period (hours) | Diameter of interval (inches) | Field checked |
|---|---|---|---|---|---|---|---|
| **Consolidated rock—Continued** | | | | | | | |
| (D-1-6)34ccc-1 | WEBR | 02-19-1992 | 30 | 60 | 6 | 8 | N |
| (D-2-5)13aaa-1 | KTLY | 11-08-1996 | 15 | 20 | 2 | 5 | Y |
| (D-2-5)13adc-1 | KTLY | 05-12-1996 | 15 | 40 | 2 | 5 | Y |
| (D-2-6)3cbc-1 | WEBR | 09-25-1999 | 50 | 90 | 2 | 5.5 | N |
| (D-2-6)4cbc-1 | KTLY | 05-04-1992 | 20 | 10 | 1 | 8 | N |
| (D-2-6)16cda-1 | WEBR | 03-21-1996 | 1,300 | 30 | 20 | 12 | Y |
| (D-2-6)21acd-1 | WEBR | 09-25-1995 | 60 | 100 | 2 | 5 | N |
| (D-2-6)21dbc-1 | WEBR | 09-20-1993 | 18 | 20 | 4 | 6 | N |
| (D-2-6)25dba-1 | PLZC | 08-29-2000 | 10 | 6.51 | 1.7 | 5 | A |
| (D-2-6)26aba-1 | PLZC | 06-12-1989 | 33 | 9 | 24 | 6 | N |
| (D-2-6)26abc-1 | WEBR | 03-13-1985 | 125 | 105 | 48 | 12 | N |
| (D-2-6)27ccd-1 | WEBR | 10-19-1979 | 219 | 67 | 8 | 8 | N |
| (D-2-6)28add-1 | WEBR | 12-31-1997 | 30 | 65 | 1 | 4.5 | Y |
| (D-2-6)29bcb-1 | [2]KTLY | 11-28-2000 | 36 | 30.09 | 2.5 | 6 | A |
| (D-2-6)30aad-1 | KTLY | 04-16-1987 | 40 | 100 | 1 | 6 | N |
| (D-2-6)32dba-1 | KTLY | 03-12-1987 | 15 | 60 | 1 | 5 | N |
| (D-2-6)34acc-1 | WEBR | 07-26-1997 | 15 | 20 | 1 | 5 | Y |
| (D-2-6)34dcd-1 | KTLY | 07-25-2000 | 27 | 10.17 | 2 | 6.6 | A |

[1]Well originally drilled to a depth of 84 feet and completed in alluvium.
[2]Well deepened in November 2000 to 290 feet and completed in alluvium and volcanics.

**Table 5.** Discharge, temperature, specific conductance, and pH of water from selected springs and streams in Kamas Valley and vicinity, Utah

[—, no data available; NA, not applicable]

Location: See figure 1 for an explanation of the numbering system used for hydrologic-data sites in Utah.
Site ID: A unique number identifying a site in the U.S. Geological Survey database, originally based upon latitude and longitude.
Formation: TYNS, Thaynes Formation; MRGN, Morgan Formation; MDSN, Madison Group.
Discharge: $ft^3/s$, cubic feet per second; gal/min, gallons per minute; 1 $ft^3/s$ equals 448.8 gal/min.
Temperature: $^oC$, degrees Celsius.
Specific conductance: µS/cm, microsiemens per centimeter at 25 degrees Celsius.

| Location | Site ID | Name | Formation | Date measured | Discharge | | Temperature ($^oC$) | Specific conductance, field (µS/cm) | pH, field (standard units) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | ($ft^3/s$) | (gal/min) | | | |
| (D-1-5)23aca | 404319111203501 | Marchant ditch | NA | 11-03-1997 | 5.4 | | — | 470 | 8.1 |
| | | | | 03-19-1998 | 3.9 | | 11.0 | 495 | — |
| | | | | 04-17-1998 | 3.5 | | 8.0 | 485 | — |
| | | | | 05-12-1998 | 5.0 | | 10.5 | 460 | 8.0 |
| | | | | 06-11-1998 | 15 | | 14.0 | 440 | 8.0 |
| | | | | 07-13-1998 | 12 | | 12.5 | 450 | 7.9 |
| | | | | 08-10-1998 | 9.4 | | 12.5 | 440 | 7.7 |
| | | | | 09-14-1998 | 12 | | 12.0 | 445 | 7.7 |
| | | | | 10-29-1998 | 7.2 | | 10.5 | — | — |
| | | | | 11-16-1998 | 6.9 | | 10.5 | 455 | 7.8 |
| | | | | 12-17-1998 | 6.0 | | 6.5 | 460 | 7.9 |
| | | | | 01-20-1999 | 3.8 | | 6.5 | 480 | 7.0 |
| | | | | 02-18-1999 | 4.3 | | 7.5 | 475 | 8.0 |
| | | | | 03-15-1999 | 5.8 | | 9.5 | 470 | 8.0 |
| | | | | 04-12-1999 | 3.7 | | 10.5 | 480 | 7.8 |
| | | | | 05-11-1999 | 4.5 | | 11.0 | 490 | 8.0 |
| | | | | 06-16-1999 | 10 | | 13.0 | 410 | 8.0 |
| | | | | 07-15-1999 | 11 | | 14.5 | 460 | 7.9 |
| | | | | 08-11-1999 | 11 | | 13.5 | 455 | 7.7 |
| | | | | 09-14-1999 | 10 | | 10.5 | 450 | 7.3 |
| | | | | 10-06-1999 | 9.0 | | 11.5 | 450 | 7.5 |
| | | | | 11-09-1999 | 6.8 | | 11.0 | 450 | 7.7 |
| | | | | 12-28-1999 | 4.5 | | 7.5 | 460 | 7.5 |
| | | | | 02-01-2000 | 3.7 | | 7.0 | 450 | 7.9 |
| | | | | 02-18-2000 | 4.5 | | 7.5 | 465 | 7.9 |
| | | | | 03-16-2000 | 3.5 | | 9.0 | 455 | 7.8 |
| | | | | 04-12-2000 | 3.4 | | 13.0 | 420 | 7.8 |
| | | | | 05-18-2000 | 7.1 | | 11.0 | 465 | 7.9 |
| | | | | 06-29-2000 | 9.6 | | 14.0 | 470 | 7.9 |
| | | | | 07-27-2000 | 8.6 | | 17.0 | 465 | 7.6 |
| | | | | 09-01-2000 | 9.1 | | 11.5 | 440 | 7.8 |
| | | | | 09-29-2000 | 8.1 | | 14.5 | 430 | 8.0 |
| (D-2-5)13dba | 403846111192601 | Indian Hollow near Kamas, Utah | NA | 10-10-1997 | .23 | | 12.0 | 340 | 7.8 |
| | | | | 04-17-1998 | 5.2 | | 7.0 | 170 | — |
| | | | | 05-14-1998 | 3.8 | | — | — | — |
| | | | | 06-15-1998 | 1.3 | | 14.5 | 230 | 8.2 |
| | | | | 07-15-1998 | .39 | | 21.0 | 250 | 8.5 |
| | | | | 08-13-1998 | .38 | | 15.5 | 280 | 8.4 |
| | | | | 09-15-1997 | .09 | | 11.0 | 305 | 7.9 |

**Table 5.** Discharge, temperature, specific conductance, and pH of water from selected springs and streams in Kamas Valley and vicinity, Utah—Continued

| Location | Site ID | Name | Formation | Date measured | Discharge | | Tempera-ture ($^{o}$C) | Specific conduc-tance, field (μS/cm) | pH, field (standard units) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | ($ft^3/s$) | (gal/min) | | | |
| (D-2-5)13dba—Continued | | Indian Hollow near Kamas, Utah | NA | 09-24-1998 | .10 | | 10.0 | — | — |
| | | | | 11-17-1998 | .14 | | 3.5 | 295 | 8.0 |
| | | | | 12-16-1998 | .06 | | .5 | 280 | 7.3 |
| | | | | 01-20-1999 | .08 | | 1.0 | 280 | 7.9 |
| | | | | 02-18-1999 | .21 | | 3.0 | 265 | 8.0 |
| | | | | 03-17-1999 | 4.2 | | — | 155 | 7.9 |
| | | | | 03-29-1999 | 2.2 | | — | — | — |
| | | | | 04-13-1999 | 2.2 | | 10.5 | 190 | 7.9 |
| | | | | 05-06-1999 | 10 | | — | 155 | 8.1 |
| | | | | 06-21-1999 | .67 | | 16.0 | 250 | 8.4 |
| | | | | 07-15-1999 | .26 | | 16.5 | 265 | 8.5 |
| | | | | 08-11-1999 | .10 | | 16.0 | 285 | 8.4 |
| | | | | 09-13-1999 | .05 | | 11.0 | 345 | 8.0 |
| | | | | 10-05-1999 | .06 | | 6.5 | 300 | 7.4 |
| | | | | 11-23-1999 | .06 | | .0 | 335 | 8.4 |
| | | | | 12-27-1999 | .06 | | .0 | 300 | 7.0 |
| | | | | 01-27-2000 | .13 | | 1.5 | 265 | 7.9 |
| | | | | 02-18-2000 | .23 | | 4.5 | 250 | 7.7 |
| | | | | 03-16-2000 | .36 | | 7.0 | 250 | 7.5 |
| | | | | 04-11-2000 | 1.0 | | — | — | — |
| | | | | 04-12-2000 | — | | 5.0 | 210 | 8.0 |
| | | | | 04-25-2000 | .84 | | — | — | — |
| | | | | 05-18-2000 | .37 | | 9.0 | 250 | 8.4 |
| | | | | 06-28-2000 | .03 | | 22.0 | 245 | 9.0 |
| | | | | 07-27-2000 | .00 | | — | — | — |
| | | | | 10-01-2000 | .00 | | — | — | — |
| (D-2-5)24cbb-S1 | 403755111200901 | Heber Mitchell spring | TYNS | 10-02-1997 | | 6.4 | 10.5 | 690 | 7.3 |
| | | | | 10-30-1997 | | 6.6 | 10.0 | 680 | 7.3 |
| | | | | 12-11-1997 | | 6.4 | 9.5 | 730 | — |
| | | | | 01-08-1998 | | 6.7 | 9.0 | 720 | — |
| | | | | 02-10-1998 | | 6.8 | 9.0 | 730 | — |
| | | | | 04-10-1998 | | 7.7 | 9.0 | 740 | — |
| | | | | 05-12-1998 | | 8.4 | 9.0 | 690 | 7.4 |
| | | | | 06-15-1998 | | 7.5 | 9.5 | 730 | 7.2 |
| | | | | 07-15-1998 | | 8.2 | 10.0 | 730 | 7.4 |
| | | | | 08-12-1998 | | 6.9 | 10.0 | 770 | 7.2 |
| | | | | 09-09-1998 | | 5.8 | 10.5 | 760 | 7.2 |
| | | | | 10-29-1998 | | 4.6 | 11.0 | 575 | — |
| | | | | 11-16-1998 | | 7.2 | 10.0 | 720 | 7.4 |
| | | | | 12-15-1998 | | 8.7 | 9.5 | 700 | 7.6 |
| | | | | 02-17-1999 | | 6.2 | 8.5 | 740 | 7.5 |
| | | | | 03-15-1999 | | 14.3 | 8.5 | 760 | 7.3 |
| | | | | 04-12-1999 | | 10.4 | 8.5 | 750 | 7.4 |
| | | | | 05-10-1999 | | 8.4 | — | 770 | 7.4 |
| | | | | 06-16-1999 | | 7.7 | 9.5 | 790 | 7.5 |
| | | | | 07-14-1999 | | 7.1 | 10.0 | 780 | 7.4 |
| | | | | 08-10-1999 | | 6.0 | 10.0 | 770 | 7.4 |
| | | | | 09-13-1999 | | 5.2 | 10.5 | 760 | 7.4 |
| | | | | 10-05-1999 | | 5.3 | 10.5 | 800 | 7.4 |

**Table 5.** Discharge, temperature, specific conductance, and pH of water from selected springs and streams in Kamas Valley and vicinity, Utah—Continued

| Location | Site ID | Name | Formation | Date measured | Discharge | | Tempera-ture ($^{o}$C) | Specific conduc-tance, field (µS/cm) | pH, field (standard units) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | ($ft^3$/s) | (gal/min) | | | |
| (D-2-5)24cbb-S1—Continued | | Heber Mitchell spring | TYNS | 11-09-1999 | | 5.0 | 10.0 | 760 | 7.3 |
| | | | | 12-27-1999 | | 5.0 | 9.5 | 740 | 7.0 |
| | | | | 02-01-2000 | | 5.0 | 9.0 | 740 | 7.4 |
| | | | | 02-22-2000 | | 5.5 | 9.0 | 750 | 7.3 |
| | | | | 03-16-2000 | | 6.2 | 9.0 | 760 | 7.5 |
| | | | | 04-12-2000 | | 7.1 | 9.0 | 690 | 7.3 |
| | | | | 05-18-2000 | | 6.8 | 10.0 | 770 | 7.3 |
| | | | | 06-29-2000 | | 6.0 | 10.0 | 820 | 7.1 |
| | | | | 07-27-2000 | | 5.0 | 11.0 | 780 | 7.2 |
| | | | | 08-15-2000 | | 3.5 | 11.0 | 740 | 7.4 |
| | | | | 09-01-2000 | | 4.4 | 11.0 | 790 | 7.1 |
| | | | | 10-02-2000 | | 4.3 | 11.0 | 770 | 7.4 |
| (D-2-5)24cbd | 403746111200401 | City Creek near Kamas, Utah | NA | 10-06-1997 | .17 | | 11.0 | 620 | — |
| | | | | 04-17-1998 | 2.0 | | 4.0 | 435 | — |
| | | | | 05-14-1998 | .71 | | — | — | — |
| | | | | 06-15-1998 | .38 | | 12.5 | 600 | 8.3 |
| | | | | 07-15-1998 | .22 | | 25.0 | 600 | 8.7 |
| | | | | 08-12-1998 | .13 | | 22.5 | 620 | 8.6 |
| | | | | 09-09-1998 | .07 | | 17.5 | 620 | 8.4 |
| | | | | 10-29-1998 | .15 | | 5.0 | 390 | — |
| | | | | 11-16-1998 | .11 | | 4.0 | — | — |
| | | | | 12-16-1998 | .06 | | .0 | 580 | 7.9 |
| | | | | 01-20-1999 | .06 | | .5 | 580 | 8.2 |
| | | | | 03-17-1999 | 2.4 | | 4.0 | 360 | 8.1 |
| | | | | 04-12-1999 | .43 | | 13.5 | 550 | 8.7 |
| | | | | 05-06-1999 | 4.4 | | 16.3 | 400 | 8.3 |
| | | | | 06-16-1999 | .28 | | 22.5 | 700 | 8.8 |
| | | | | 07-14-1999 | .20 | | 16.0 | 720 | 8.5 |
| | | | | 08-10-1999 | .01 | | 19.0 | 690 | 8.5 |
| | | | | 09-13-1999 | .06 | | 19.5 | 660 | 8.7 |
| | | | | 10-05-1999 | .06 | | 14.5 | 670 | 8.7 |
| | | | | 11-09-1999 | .10 | | 8.0 | 650 | 8.5 |
| | | | | 12-28-1999 | .11 | | .0 | 620 | 7.4 |
| | | | | 01-27-2000 | .11 | | .5 | 660 | 8.4 |
| | | | | 02-22-2000 | .17 | | 1.5 | 1,120 | 8.1 |
| | | | | 03-16-2000 | .14 | | 7.0 | 620 | 8.6 |
| | | | | 04-12-2000 | .18 | | 11.5 | 740 | 8.7 |
| | | | | 05-18-2000 | .11 | | 16.5 | 710 | 8.7 |
| | | | | 06-28-2000 | .03 | | — | 590 | 8.9 |
| | | | | 07-27-2000 | .00 | | — | — | — |
| (D-2-6)3dcd-S1 | 404009111145601 | Spring east of Marion, Utah | MRGN | 09-11-1997 | | 34.3 | 5.5 | 440 | 7.4 |
| | | | | 09-30-1997 | | 16.5 | 5.5 | 430 | — |
| | | | | 11-05-1997 | | 9.2 | 5.5 | 420 | 7.3 |
| | | | | 06-11-1998 | | 33.0 | 5.5 | 450 | 7.2 |
| | | | | 07-14-1998 | | 42.5 | 5.5 | 465 | 7.3 |
| | | | | 08-11-1998 | | 39.4 | 5.5 | 450 | 7.3 |
| | | | | 09-14-1998 | | 31.9 | 5.5 | 440 | 7.1 |
| | | | | 10-15-1998 | | 15.7 | 5.5 | 430 | 7.4 |

**Table 5.** Discharge, temperature, specific conductance, and pH of water from selected springs and streams in Kamas Valley and vicinity, Utah—Continued

| Location | Site ID | Name | Formation | Date measured | Discharge | | Tempera-ture ($^{o}$C) | Specific conduc-tance, field (μS/cm) | pH, field (standard units) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | ($ft^3$/s) | (gal/min) | | | |
| (D-2-6)3dcd-S1—Continued | | Spring east of Marion, Utah | MRGN | 11-17-1998 | | 10.5 | 5.5 | 420 | 7.3 |
| | | | | 12-14-1998 | | 10.3 | 5.0 | 425 | 7.2 |
| | | | | 02-25-1999 | | 7.6 | 5.0 | 410 | 7.5 |
| | | | | 04-12-1999 | | 2.9 | 5.5 | 425 | 7.4 |
| | | | | 05-10-1999 | | 34.1 | 6.5 | 410 | 7.4 |
| | | | | 06-16-1999 | | 25.0 | 5.5 | 470 | 7.4 |
| | | | | 07-14-1999 | | 24.0 | 5.5 | 465 | 7.6 |
| | | | | 08-10-1999 | | 37.5 | 5.5 | 440 | 7.3 |
| | | | | 09-13-1999 | | 14.3 | 5.5 | 430 | 7.4 |
| | | | | 10-05-1999 | | 12.8 | 5.5 | 430 | 7.2 |
| | | | | 11-09-1999 | | 13.6 | 5.5 | 415 | 7.0 |
| | | | | 02-22-2000 | | 7.5 | 5.5 | 410 | 7.3 |
| | | | | 03-17-2000 | | 6.4 | 5.5 | 390 | 7.4 |
| | | | | 04-13-2000 | | 5.8 | 5.5 | 380 | 7.3 |
| | | | | 05-22-2000 | | 19.4 | 5.0 | 405 | 7.4 |
| | | | | 06-25-2000 | | 20.0 | 5.0 | 410 | 7.1 |
| | | | | 06-29-2000 | | 19.0 | 6.0 | 440 | 7.2 |
| | | | | 07-25-2000 | | 20.0 | 5.0 | 410 | 7.1 |
| | | | | 09-01-2000 | | 20.0 | 6.0 | 395 | 7.2 |
| | | | | 09-29-2000 | | 19.0 | 5.0 | 370 | 7.5 |
| (D-2-6)23adc-S1 | 403757111133001 | Overflow from Left Fork spring near Samak, Utah | MDSN | 06-18-1998 | 5.3 | | 6.5 | 310 | 7.6 |
| | | | | 07-14-1998 | 2.4 | | 6.5 | — | — |
| | | | | 08-12-1998 | .95 | | 6.5 | — | — |
| | | | | 09-14-1998 | .45 | | 6.5 | 400 | 7.4 |
| | | | | 11-17-1998 | .46 | | 7.0 | 405 | 7.6 |
| | | | | 12-16-1998 | .83 | | 6.5 | 410 | 7.4 |
| | | | | 02-17-1999 | .35 | | 6.5 | 400 | 7.7 |
| | | | | 03-15-1999 | .11 | | 6.5 | 420 | 7.7 |
| | | | | 04-13-1999 | .28 | | 6.5 | 405 | 7.6 |
| | | | | 05-11-1999 | 4.8 | | — | 405 | 7.6 |
| | | | | 06-16-1999 | 9.2 | | 6.0 | 345 | 7.8 |
| | | | | 07-14-1999 | 1.2 | | 6.5 | 385 | 7.7 |
| | | | | 08-10-1999 | .67 | | 6.5 | 390 | 7.1 |
| | | | | 09-14-1999 | .11 | | 6.5 | 410 | 7.4 |
| | | | | 10-06-1999 | .15 | | 6.5 | 380 | 7.1 |
| | | | | 11-09-1999 | .27 | | 6.5 | 405 | 6.7 |
| | | | | 02-01-2000 | .14 | | 6.5 | 395 | 7.7 |
| | | | | 02-18-2000 | .12 | | 6.5 | 385 | 7.4 |
| | | | | 03-17-2000 | .00 | | 5.5 | 385 | 8.0 |
| | | | | 04-12-2000 | .19 | | 7.0 | 350 | 7.5 |
| | | | | 05-18-2000 | 4.1 | | 6.5 | 325 | 7.6 |
| | | | | 06-28-2000 | .05 | | 8.0 | 370 | 7.5 |
| | | | | 07-25-2000 | .14 | | 7.0 | 380 | 7.2 |
| | | | | 09-01-2000 | .17 | | 7.0 | 390 | 7.5 |
| | | | | 09-29-2000 | .00 | | 8.0 | 395 | 7.9 |

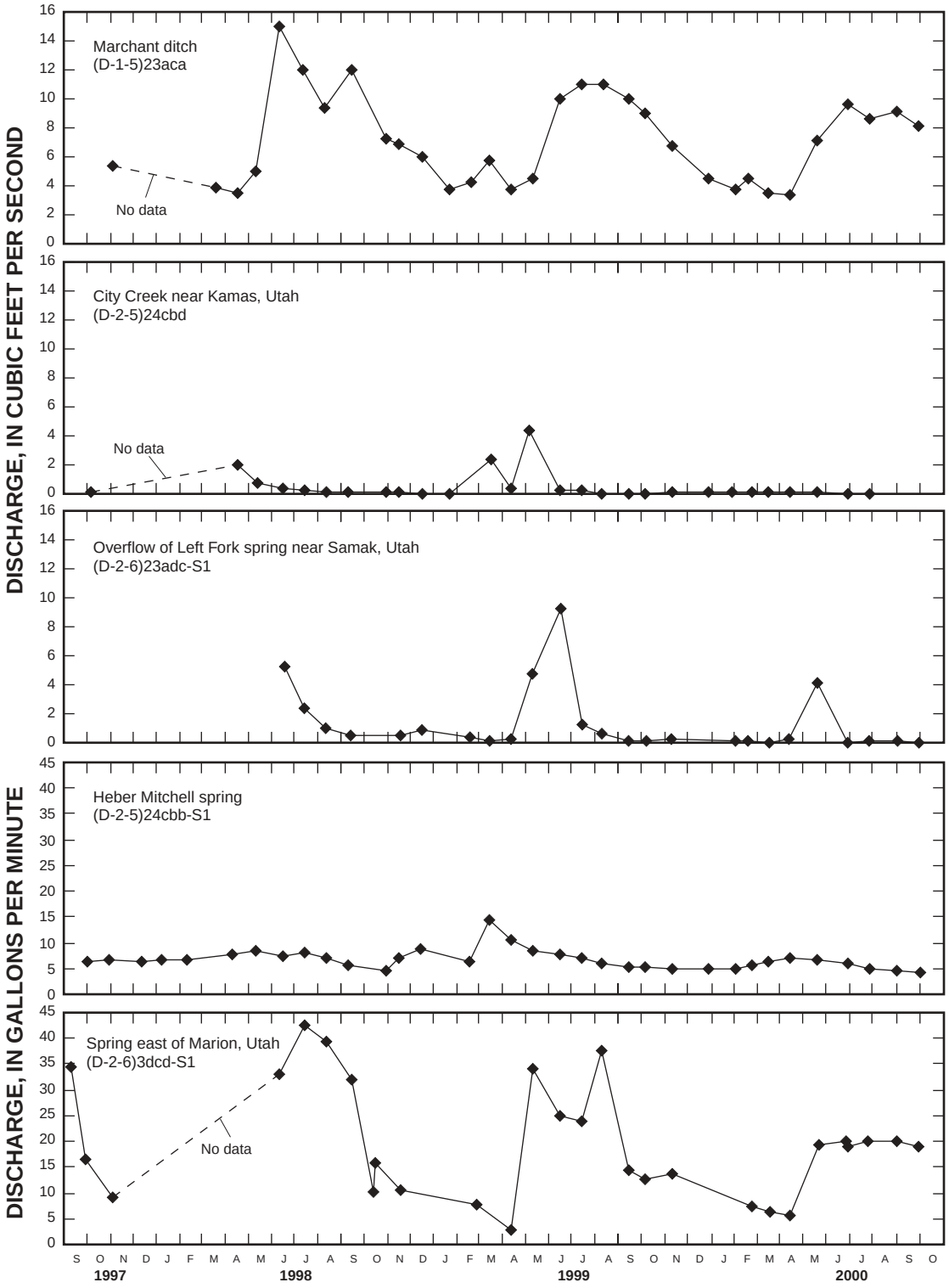


**Figure 3.** Discharge of selected streams and springs, Kamas Valley and vicinity, Utah.

**Table 6.** Discharge, temperature, and specific conductance of water from selected streams, springs, and canals during seepage studies in Kamas Valley and vicinity, Utah

[—, no data available]

Number of measurement site: Number indicates order in which seepage studies were conducted; refer to plate 1.
Location: See figure 1 for an explanation of the numbering system used for hydrologic-data sites in Utah.
Discharge: $ft^3/s$, cubic feet per second.
Temperature: °C, degrees Celsius.
Specific conductance: µS/cm, microsiemens per centimeter at 25 degrees Celsius.

| Number of measurement site | Location | Description of site | Discharge ($ft^3/s$) | Temperature (°C) | Specific conductance, field (µS/cm) |
|---|---|---|---|---|---|
| | | **Weber River, November 2, 1998** | | | |
| 37 | (A-1-7)31dcb | Weber River | 69.3 | — | — |
| 38 | (A-1-7)31dcb | Inflow from unnamed spring | .72 | 6.5 | 395 |
| 39 | (D-1-7)6bab | Inflow from Perdue Creek | .2 | 7.5 | 390 |
| 40 | (D-1-6)1dad | Weber River | 74.6 | — | — |
| 41 | (D-1-6)12bdd | Weber River above South Fork Weber River | 73.8 | — | — |
| 42 | (D-1-6)12bdd | Inflow from South Fork Weber River | 12.0 | 5.5 | 340 |
| 43 | (D-1-6)15adb | Weber River at gaging station 10128500 | 85.4 | — | — |
| 44 | (D-1-6)15caa | Outflow to New Field and North Bench Canal | 1.97 | — | — |
| 45 | (D-1-6)15cda | Weber River above Pinon Lane | 85.7 | — | — |
| 46 | (D-1-6)22bab | Outflow to Upper Marion Ditch | 2.49 | — | — |
| 47 | (D-1-6)22bab | Outflow to Lower Marion Ditch | .39 | — | — |
| 48 | (D-1-6)15ccc | Inflow from Whites Creek | .51 | 7.5 | 510 |
| 49 | [1](D-1-6)21add | Outflow to Gibbons Ditch | [2]0 | — | — |
| 50 | [1](D-1-6)21ada | Outflow to Boulderville Ditches | 7.11 | — | — |
| 51 | (D-1-6)21acd | Outflow to Peoa South Bench Canal | 5.83 | — | — |
| 54 | (D-1-6)21cca | Outflow to Weber-Provo Diversion Canal | 34.7 | — | — |
| 55 | (D-1-6)21ccb | Weber River above New Lane | 30.8 | — | — |
| | | **Weber River, November 3, 1998** | | | |
| 37 | (A-1-7)31dcb | Weber River | 68.0 | 3.0 | 495 |
| 38 | (A-1-7)31dcb | Inflow from unnamed spring | .65 | — | — |
| 39 | (D-1-7)6bab | Inflow from Perdue Creek | .2 | — | — |
| 40 | (D-1-6)1dad | Weber River | 72.9 | 3.0 | 435 |
| 41 | (D-1-6)12bdd | Weber River above South Fork Weber River | 74.6 | 3.5 | 490 |
| 42 | (D-1-6)12bdd | Inflow from South Fork Weber River | 14.7 | — | — |
| 43 | (D-1-6)15adb | Weber River at gaging station 10128500 | 96.4 | 3.5 | 500 |
| 44 | (D-1-6)15caa | Outflow to New Field and North Bench Canal | 1.91 | — | — |
| 45 | (D-1-6)15cda | Weber River above Pinon Lane | 86.6 | 4.0 | 490 |
| 46 | (D-1-6)22bab | Outflow to Upper Marion Ditch | 2.27 | — | — |
| 47 | (D-1-6)22bab | Outflow to Lower Marion Ditch | .39 | — | — |
| 48 | (D-1-6)15ccc | Inflow from Whites Creek | .51 | — | — |
| 49 | [1](D-1-6)21add | Outflow to Gibbons Ditch | [2]0 | — | — |
| 50 | [1](D-1-6)21ada | Outflow to Boulderville Ditches | 7.97 | — | — |
| 51 | (D-1-6)21acd | Outflow to Peoa South Bench Canal | 6.45 | — | — |
| 54 | (D-1-6)21cca | Outflow to Weber-Provo Diversion Canal | 32.6 | — | — |
| 55 | (D-1-6)21ccb | Weber River above New Lane | 29.0 | — | — |
| | | **Weber River, November 4, 1998** | | | |
| 37 | (A-1-7)31dcb | Weber River | 56.6 | .5 | 300 |
| 38 | (A-1-7)31dcb | Inflow from unnamed spring | .52 | — | — |
| 39 | (D-1-7)6bab | Inflow from Perdue Creek | .2 | — | — |
| 40 | (D-1-6)1dad | Weber River | 60.2 | .5 | 295 |
| 41 | (D-1-6)12bdd | Weber River above South Fork Weber River | 65.4 | .5 | 280 |

**Table 6.** Discharge, temperature, and specific conductance of water from selected streams, springs, and canals during seepage studies in Kamas Valley and vicinity, Utah—Continued

| Number of measurement site | Location | Description of site | Discharge ($ft^3/s$) | Temperature ($^oC$) | Specific conductance, field ($\mu S/cm$) |
|---|---|---|---|---|---|
| | | **Weber River, November 4, 1998—Continued** | | | |
| 42 | (D-1-6)12bdd | Inflow from South Fork Weber River | 13.7 | — | — |
| 43 | (D-1-6)15adb | Weber River at gaging station 10128500 | 87.9 | 1.5 | 305 |
| 44 | (D-1-6)15caa | Outflow to New Field and North Bench Canal | 1.54 | — | — |
| 45 | (D-1-6)15cda | Weber River above Pinon Lane | 75.1 | — | — |
| 46 | (D-1-6)22bab | Outflow to Upper Marion Ditch | 2.15 | — | — |
| 47 | (D-1-6)22bab | Outflow to Lower Marion Ditch | .39 | — | — |
| 48 | (D-1-6)15ccc | Inflow from Whites Creek | .38 | — | — |
| 49 | [1](D-1-6)21add | Outflow to Gibbons Ditch | [2]0 | — | — |
| 50 | [1](D-1-6)21ada | Outflow to Boulderville Ditches | 7.97 | — | — |
| 51 | (D-1-6)21acd | Outflow to Peoa South Bench Canal | 23.5 | — | — |
| 52 | (D-1-6)21dba | Weber River below Peoa South Bench Canal | 37.5 | — | — |
| 53 | (D-1-6)21acd | Return flow from Peoa South Bench Canal | [3]17.0 | — | — |
| 54 | (D-1-6)21cca | Outflow to Weber-Provo Diversion Canal | 30.3 | — | — |
| 55 | (D-1-6)21ccb | Weber River above New Lane | 26.7 | — | — |
| | | **Beaver Creek, September 21, 1999** | | | |
| 1 | (D-2-7)19cad | Beaver Creek 2 miles above fish hatchery | 6.06 | 8.5 | 75 |
| 2 | (D-2-6)25dbb | Beaver Creek 1 mile above fish hatchery | 6.61 | 9.5 | 83 |
| 3 | (D-2-6)26abc | Beaver Creek above inflow from fish hatchery | 5.62 | 13.0 | 475 |
| 4 | (D-2-6)26abb | Beaver Creek below inflow from fish hatchery | 9.87 | — | — |
| 5 | (D-2-6)26abb | Beaver Creek below fish hatchery | 10.7 | 12.0 | 255 |
| 6 | (D-2-6)26baa | Inflow from Left-Hand Canyon below Samak Road | .70 | 14.0 | 400 |
| 7 | (D-2-6)26baa | Inflow from Willow Springs | .49 | 15.0 | 450 |
| 8 | (D-2-6)23cdd | Inflow from Left-Hand Canyon by trailers below Samak Road | 1.30 | 13.5 | 395 |
| 9 | (D-2-6)22dca | Beaver Creek at Lind Bridge | 13.0 | 13.5 | 285 |
| 10 | (D-2-6)21aaa | Beaver Creek at Grist Mill | 10.9 | 14.5 | 300 |
| 11 | (D-2-6)21aaa | Diversion at Grist Mill | 5.06 | — | — |
| 12 | (D-2-6)21aba | Thorn Creek diversion near elementary school | 3.32 | — | — |
| 13 | [4](D-2-6)16cdd | Diversion near high school | .69 | — | — |
| 14 | (D-2-6)16cdc | Diversion near bus shops | 1.5 | — | — |
| 15 | (D-2-6)17dda | Center Street diversion | .47 | 14.5 | 295 |
| 16 | (D-2-6)17dac | Beaver Creek at Weber-Provo Diversion Canal | 2.01 | 14.0 | 290 |
| | | **Beaver Creek, September 22, 1999** | | | |
| 1 | (D-2-7)19cad | Beaver Creek 2 miles above fish hatchery | 5.67 | 8.5 | 75 |
| 2 | (D-2-6)25dbb | Beaver Creek 1 mile above fish hatchery | 6.01 | 9.5 | 84 |
| 3 | (D-2-6)26abc | Beaver Creek above inflow from fish hatchery | 5.19 | 10.0 | 465 |
| 4 | (D-2-6)26abb | Beaver Creek below inflow from fish hatchery | — | — | — |
| 5 | (D-2-6)26abb | Beaver Creek below fish hatchery | 11.0 | 12.0 | 260 |
| 6 | (D-2-6)26baa | Inflow from Left-Hand Canyon below Samak Road | .63 | 11.0 | 415 |
| 7 | (D-2-6)26baa | Inflow from Willow Springs | .56 | 13.0 | 460 |
| 8 | (D-2-6)23cdd | Inflow from Left-Hand Canyon by trailers below Samak Road | 1.10 | 10.0 | 435 |
| 9 | (D-2-6)22dca | Beaver Creek at Lind Bridge | 13.1 | 13.0 | 290 |
| 10 | (D-2-6)21aaa | Beaver Creek at Grist Mill | 11.6 | 14.5 | 305 |
| 11 | (D-2-6)21aaa | Diversion at Grist Mill | 3.09 | — | — |
| 12 | (D-2-6)21aba | Thorn Creek diversion near elementary school | 3.51 | — | — |
| 13 | [4](D-2-6)16cdd | Diversion near high school | .10 | — | — |
| 14 | (D-2-6)16cdc | Diversion near bus shops | 1.17 | — | — |
| 15 | (D-2-6)17dda | Center Street diversion | .86 | — | — |
| 16 | (D-2-6)17dac | Beaver Creek at Weber-Provo Diversion Canal | 2.58 | 14.0 | 295 |

**Table 6.** Discharge, temperature, and specific conductance of water from selected streams, springs, and canals during seepage studies in Kamas Valley and vicinity, Utah—Continued

| Number of measurement site | Location | Description of site | Discharge ($ft^3/s$) | Temperature ($^oC$) | Specific conductance, field ($\mu S/cm$) |
|---|---|---|---|---|---|
| | | **Beaver Creek, September 23, 1999** | | | |
| 1 | (D-2-7)19cad | Beaver Creek 2 miles above fish hatchery | 5.39 | 10.5 | 75 |
| 2 | (D-2-6)25dbb | Beaver Creek 1 mile above fish hatchery | 6.11 | 11.0 | 85 |
| 3 | (D-2-6)26abc | Beaver Creek above inflow from fish hatchery | 5.18 | 10.0 | 465 |
| 4 | (D-2-6)26abb | Beaver Creek below inflow from fish hatchery | 9.03 | 10.0 | 140 |
| 5 | (D-2-6)26abb | Beaver Creek below fish hatchery | 9.73 | 12.5 | 265 |
| 6 | (D-2-6)26baa | Inflow from Left-Hand Canyon below Samak Road | .72 | 12.0 | 425 |
| 7 | (D-2-6)26baa | Inflow from Willow Springs | .55 | 13.0 | 455 |
| 8 | (D-2-6)23cdd | Inflow from Left-Hand Canyon by trailers below Samak Road | 1.07 | 11.0 | 425 |
| 9 | (D-2-6)22dca | Beaver Creek at Lind Bridge | 12.8 | 13.0 | 290 |
| 10 | (D-2-6)21aaa | Beaver Creek at Grist Mill | 10.9 | 14.0 | 305 |
| 11 | (D-2-6)21aaa | Diversion at Grist Mill | 3.10 | — | — |
| 12 | (D-2-6)21aba | Thorn Creek diversion near elementary school | 3.53 | — | — |
| 13 | [4](D-2-6)16cdd | Diversion near high school | 1.00 | — | — |
| 14 | (D-2-6)16cdc | Diversion near bus shops | 1.06 | — | — |
| 15 | (D-2-6)17dda | Center Street diversion | .62 | — | — |
| 16 | (D-2-6)17dac | Beaver Creek at Weber-Provo Diversion Canal | 2.02 | 14.0 | 300 |
| | | **Mid-valley inflows, October 13-15, 1999** | | | |
| 17 | (D-2-6)18cdc | City Creek | .47 | — | — |
| 18 | (D-2-6)18dcd | Culvert | 1.29 | — | — |
| 19 | (D-2-6)18ddc | Culvert | .36 | — | — |
| 20 | (D-2-6)20bab | North flowing ditch | .13 | — | — |
| 21 | (D-2-6)20bab | East flowing ditch | .24 | — | — |
| 22 | (D-2-6)17ddc | Ditch | .17 | — | — |
| 15 | (D-2-6)17dda | Diversion from Beaver Creek at Center Street in Kamas | .70 | — | — |
| 16 | (D-2-6)17dac | Beaver Creek at Weber-Provo Diversion Canal | 3.88 | — | — |
| 23 | (D-2-6)17aaa | Thorn Creek | .82 | — | — |
| 24 | (D-2-6)8ddd | Culvert | [5]0 | — | — |
| 25 | (D-2-6)8dad | Culvert | .62 | — | — |
| 26 | (D-2-6)8aad | Culvert | .12 | — | — |
| 27 | (D-1-6)32add | Culvert | .34 | — | — |
| 28 | (D-1-6)32aaa | Culvert | 1.84 | — | — |
| 29 | (D-1-6)30dcd | Culvert | .09 | — | — |
| 31 | (D-1-6)30cdc | Culvert | .28 | — | — |
| 33 | (D-1-6)31bcc | Culvert | .12 | — | — |
| | | **Mid-valley outflows, October 15, 1999** | | | |
| 30 | (D-1-6)30cdd | Culvert | .10 | — | — |
| 32 | (D-1-5)36aaa | Culvert | .32 | — | — |
| 34 | (D-1-5)36daa | Culvert | .12 | — | — |
| 35 | (D-1-5)36dad | Canal | 9.08 | — | — |
| 36 | (D-2-5)1aad | Beaver Creek at Rocky Point | [6]35 | — | — |
| | | **Weber-Provo Diversion Canal, October 9, 1999** | | | |
| 56 | (D-1-6)28ddb | Canal at first check dam | 0 | — | — |
| 57 | (D-2-6)4cdd | Inflow from sprinkler head | .19 | — | — |
| 58 | (D-2-6)16bac | Canal at Rocky Slide near Kamas | .07 | — | — |
| 60 | (D-2-6)17dac | Inflow from Beaver Creek | .04 | 9.5 | 325 |
| 61 | (D-2-6)20bdd | Canal at second check dam | 1.38 | 12.0 | 520 |
| 62 | (D-2-6)30aab | Canal at third check dam | 2.06 | 14.5 | 530 |
| 63 | (D-2-6)30aab | Inflow from pipe downstream from third check dam | [7].10 | — | — |
| 64 | (D-2-6)30dca | Canal at Weber-Provo Diversion Canal near Woodland, Utah gaging station | [6]4.10 | — | — |
| 65 | (D-2-6)31aba | Canal at Provo Water Users Association Weir | [6]2.23 | — | — |

**Table 6.** Discharge, temperature, and specific conductance of water from selected streams, springs, and canals during seepage studies in Kamas Valley and vicinity, Utah—Continued

| Number of measurement site | Location | Description of site | Discharge ($ft^3/s$) | Temperature ($^oC$) | Specific conductance, field ($\mu S/cm$) |
|---|---|---|---|---|---|
| | | **Weber-Provo Diversion Canal, October 12, 1999** | | | |
| 56 | (D-1-6)28ddb | Canal at first check dam | 0 | — | — |
| 57 | (D-2-6)4cdd | Inflow from sprinkler head | .13 | 8.0 | 290 |
| 58 | (D-2-6)16bac | Canal at Rocky Slide near Kamas | .02 | 15.5 | 210 |
| 59 | (D-2-6)17dac | Canal upstream of Beaver Creek | 0 | — | — |
| 60 | (D-2-6)17dac | Inflow from Beaver Creek | .04 | 11.0 | 330 |
| 61 | (D-2-6)20bdd | Canal at second check dam | 1.19 | 13.0 | 530 |
| 62 | (D-2-6)30aab | Canal at third check dam | 1.94 | 14.0 | 540 |
| 63 | (D-2-6)30aab | Inflow from pipe downstream from third check dam | .11 | 13.5 | 315 |
| 64 | (D-2-6)30dca | Canal at Weber-Provo Diversion Canal near Woodland, Utah gaging station | [6]3.57 | 16.5 | 455 |
| 65 | (D-2-6)31aba | Canal at Provo Water Users Association Weir | [6]2.06 | 13.0 | 470 |

[1] Measured at (D-1-6)21add.
[2] Estimated to be negligible.
[3] Calculated as difference between diversion of 23.5 $ft^3/s$ and measured non-return flow of 6.45 $ft^3/s$.
[4] Measured at (D-2-6)21baa.
[5] No flowing water; only standing water.
[6] Estimated from gage reading.
[7] Estimated.

**Table 7**. Daily mean discharge of the creek in Indian Hollow near Kamas, Utah

[Gaging station operated by U.S. Geological Survey. Gaging station is located at (D-2-5)13dba. Discharge is in cubic feet per second ($ft^3/s$); —, no data available; e, estimated]

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Water year 1999 | | | | | | | |
| 1 | 0.13 e | 0.12 e | 0.13 e | 0.06 e | 0.08 e | 0.60 e | 2.2 | 4.9 | 1.6 | 0.32 | 0.14 | 0.06 |
| 2 | .13 e | .12 e | .13 e | .06 e | .08 e | .60 e | 1.9 | 5.4 | 1.9 | .31 | .14 | .06 |
| 3 | .14 e | .11 e | .11 e | .06 e | .08 e | .70 e | 1.8 | 13 | 1.9 | .28 | .13 | .05 |
| 4 | .14 e | .11 e | .09 e | .06 e | .09 e | .79 e | 1.7 | 11 | 1.7 | .25 | .13 | .05 |
| 5 | .14 e | .12 e | .06 e | .06 e | .09 e | .89 e | 1.6 | 11 | 1.6 | .24 | .13 | .05 |
| 6 | .13 e | .11 e | .06 e | .06 e | .11 e | 1.0 e | 1.6 | 9.3 | 1.6 | .25 | .13 | .05 |
| 7 | .13 e | .12 e | .06 e | .06 e | .13 e | 1.2 e | 1.7 | 9.7 | 1.5 | .25 | .13 | .05 |
| 8 | .13 e | .11 e | .06 e | .06 e | .18 e | 1.3 e | 1.9 | 7.7 | 1.3 | .25 | .11 | .05 |
| 9 | .13 e | .12 e | .06 e | .06 e | .18 e | 1.4 e | 2.0 | 6.3 | 1.3 | .25 | .11 | .04 |
| 10 | .13 e | .11 e | .06 e | .07 e | .19 e | 1.5 e | 1.9 | 5.1 | 1.3 | .25 | .10 | .04 |
| 11 | .13 e | .12 e | .06 e | .07 e | .15 e | 1.7 e | 1.8 | 4.4 | 1.2 | .25 | .10 | .04 |
| 12 | .13 e | .12 e | .06 e | .07 e | .15 e | 1.9 e | 1.9 | 3.9 | 1.1 | .25 | .10 | .04 |
| 13 | .13 e | .12 e | .06 e | .07 e | .16 e | 2.2 e | 2.2 | 5.5 | 1.0 | .25 | .10 | .04 |
| 14 | .13 e | .12 e | .06 e | .07 e | .17 e | 2.4 e | 2.5 | 4.4 | .99 | .24 | .10 | .04 |
| 15 | .13 e | .13 e | .06 e | .07 e | .17 e | 2.7 e | 2.4 | 4.1 | .95 | .24 | .10 | .04 |
| 16 | .13 e | .13 e | .06 e | .08 e | .18 e | 2.9 e | 2.3 | 3.7 | .90 | .24 | .09 | .05 |
| 17 | .12 e | .14 e | .06 e | .08 e | .20 e | 2.9 | 2.2 | 3.4 | .87 | .23 | .09 | .04 |
| 18 | .12 e | .15 e | .06 e | .08 e | .21 e | 3.6 | 2.4 | 3.3 | .82 | .23 | .09 | .04 |
| 19 | .12 e | .14 e | .06 e | .08 e | .22 e | 4.2 | 2.6 | 3.1 | .76 | .21 | .09 | .04 |
| 20 | .12 e | .13 e | .06 e | .08 e | .23 e | 4.4 | 2.9 | 2.8 | .69 | .21 | .08 | .04 |
| 21 | .12 e | .13 e | .06 e | .08 e | .25 e | 4.5 | 2.9 | 2.6 | .66 | .21 | .08 | .04 |
| 22 | .12 e | .13 e | .06 e | .08 e | .28 e | 4.1 | 2.5 | 2.4 | .64 | .21 | .08 | .05 |
| 23 | .12 e | .14 e | .06 e | .09 e | .31 e | 3.9 | 2.3 | 2.2 | .59 | .21 | .08 | .05 |
| 24 | .12 e | .14 e | .06 e | .09 e | .34 e | 4.3 | 2.3 | 2.1 | .55 | .20 | .07 | .04 |
| 25 | .13 e | .14 e | .06 e | .09 e | .39 e | 4.8 | 2.2 | 2.0 | .48 | .19 | .07 | .04 |
| 26 | .13 e | .14 e | .06 e | .09 e | .44 e | 3.9 | 2.2 | 2.0 | .42 | .19 | .07 | .04 |
| 27 | .12 e | .14 e | .06 e | .08 e | .49 e | 3.1 | 2.7 | 1.9 | .40 | .17 | .07 | .04 |
| 28 | .12 e | .14 e | .07 e | .08 e | .51 e | 2.4 | 3.4 | 1.8 | .38 | .18 | .07 | .04 |
| 29 | .13 e | .14 e | .07 e | .07 e | — e | 2.3 | 5.5 | 1.8 | .35 | .16 | .07 | .05 |
| 30 | .13 e | .14 e | .07 e | .08 e | — e | 2.5 | 5.6 | 1.7 | .33 | .15 | .07 | .05 |
| 31 | .13 e | — | .07 e | .08 e | — | 2.4 | — | 1.7 | — | .15 | .07 | — |
| **Monthly total (acre-feet)** | 7.9 | 7.6 | 4.2 | 4.5 | 12 | 153 | 145 | 286 | 59 | 14 | 5.9 | 2.7 |
| **Monthly mean ($ft^3/s$)** | .13 | .13 | .068 | .073 | .22 | 2.49 | 2.44 | 4.65 | .99 | .23 | .096 | .045 |
| **Yearly total (acre-feet)** | 702 | | | | | | | | | | | |

**Table 7**. Daily mean discharge of the creek in Indian Hollow near Kamas, Utah—Continued

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Water year 2000 | | | | | | | |
| 1 | .04 | .04 e | .11 | .06 e | .11 e | .31 | .70 | .51 | .20 | .01 | .00 | .00 |
| 2 | .04 | .05 | .10 | .06 e | .04 | .32 | .78 | .47 | .19 | .00 | .00 | .00 |
| 3 | .04 | .06 | .09 e | .06 e | .06 | .31 | .94 | .43 | .17 | .00 | .00 | .00 |
| 4 | .05 | .06 | .08 e | .07 e | .07 | .38 | 1.2 | .43 | .16 | .00 | .00 | .00 |
| 5 | .05 | .07 | .08 e | .08 e | .07 | .36 | 1.5 | .40 | .15 | .00 | .00 | .00 |
| 6 | .05 | .07 | .08 e | .06 e | .07 | .31 | 1.4 | .39 | .13 | .00 | .00 | .00 |
| 7 | .05 | .07 | .12 | .06 e | .06 | .29 | 1.2 | .40 | .11 | .00 | .00 | .00 |
| 8 | .05 | .06 | .10 e | .06 e | .07 | .28 | 1.1 | .37 | .10 | .00 | .00 | .00 |
| 9 | .05 | .06 | .09 e | .08 e | .09 | .30 | 1.0 | .36 | .11 | .00 | .00 | .00 |
| 10 | .05 | .07 | .09 e | .09 e | .11 | .32 | 1.0 | .39 | .11 | .00 | .00 | .00 |
| 11 | .05 | .07 | .08 e | .11 e | .16 | .33 | .95 | .46 | .09 | .00 | .00 | .00 |
| 12 | .05 | .08 | .09 e | .10 e | .14 | .29 | .93 | .48 | .08 | .00 | .00 | .00 |
| 13 | .05 | .09 | .09 e | .10 e | .12 | .29 | .88 | .46 | .08 | .00 | .00 | .00 |
| 14 | .05 | .08 | .08 e | .12 e | .29 | .29 | 1.2 | .39 | .07 | .00 | .00 | .00 |
| 15 | .05 | .09 | .08 e | .12 e | .43 | .30 | 1.3 | .37 | .05 | .00 | .00 | .00 |
| 16 | .05 | .09 | .09 e | .13 e | .26 | .38 | 1.3 | .37 | .05 | .00 | .00 | .00 |
| 17 | .05 | .08 | .14 | .14 e | .22 | .31 | 1.2 | .37 | .05 | .00 | .00 | .00 |
| 18 | .05 | .07 | .14 | .14 e | .20 | .31 | 1.1 | .37 | .07 | .00 | .00 | .00 |
| 19 | .05 | .08 | .14 | .14 e | .29 | .31 | 1.0 | .35 | .11 | .00 | .00 | .00 |
| 20 | .05 | .08 | .14 | .14 e | .20 | .31 | .95 | .32 | .07 | .00 | .00 | .00 |
| 21 | .05 | .07 | .14 | .13 e | .36 | .44 | .89 | .29 | .05 | .00 | .00 | .00 |
| 22 | .05 | .08 | .08 e | .12 e | .44 | .39 | .92 | .29 | .04 | .00 | .00 | .00 |
| 23 | .05 | .06 e | .07 e | .12 e | .30 | .36 | .89 | .27 | .04 | .00 | .00 | .00 |
| 24 | .05 | .06 e | .06 e | .13 e | .25 | .38 | .82 | .28 | .03 | .00 | .00 | .00 |
| 25 | .05 | .07 e | .06 e | .14 e | .22 | .44 | .77 | .35 | .01 | .00 | .00 | .00 |
| 26 | .05 | .11 | .06 e | .14 e | .25 | .64 | .71 | .38 | .01 | .00 | .00 | .00 |
| 27 | .05 | .11 | .06 e | .13 e | .20 | .91 | .63 | .28 | .01 | .00 | .00 | .00 |
| 28 | .05 | .11 | .06 e | .13 e | .21 | 1.3 | .63 | .23 | .01 | .00 | .00 | .00 |
| 29 | .05 | .11 | .06 e | .13 e | .26 | 1.0 | .59 | .22 | .00 | .00 | .00 | .00 |
| 30 | .05 | .12 | .06 e | .12 e | — | .90 | .54 | .20 | .00 | .00 | .00 | .00 |
| 31 | .05 e | — | .06 e | .13 e | — | .71 | — | .19 | — | .00 | .00 | — |
| **Monthly total (acre-feet)** | 3.0 | 4.6 | 5.5 | 6.6 | 11 | 27 | 58 | 22 | 4.7 | .02 | .00 | .00 |
| **Monthly mean ($ft^3/s$)** | .049 | .077 | .090 | .11 | .19 | .44 | .97 | .36 | .078 | .00 | .00 | .00 |
| **Yearly total (acre-feet)** | 142 | | | | | | | | | | | |

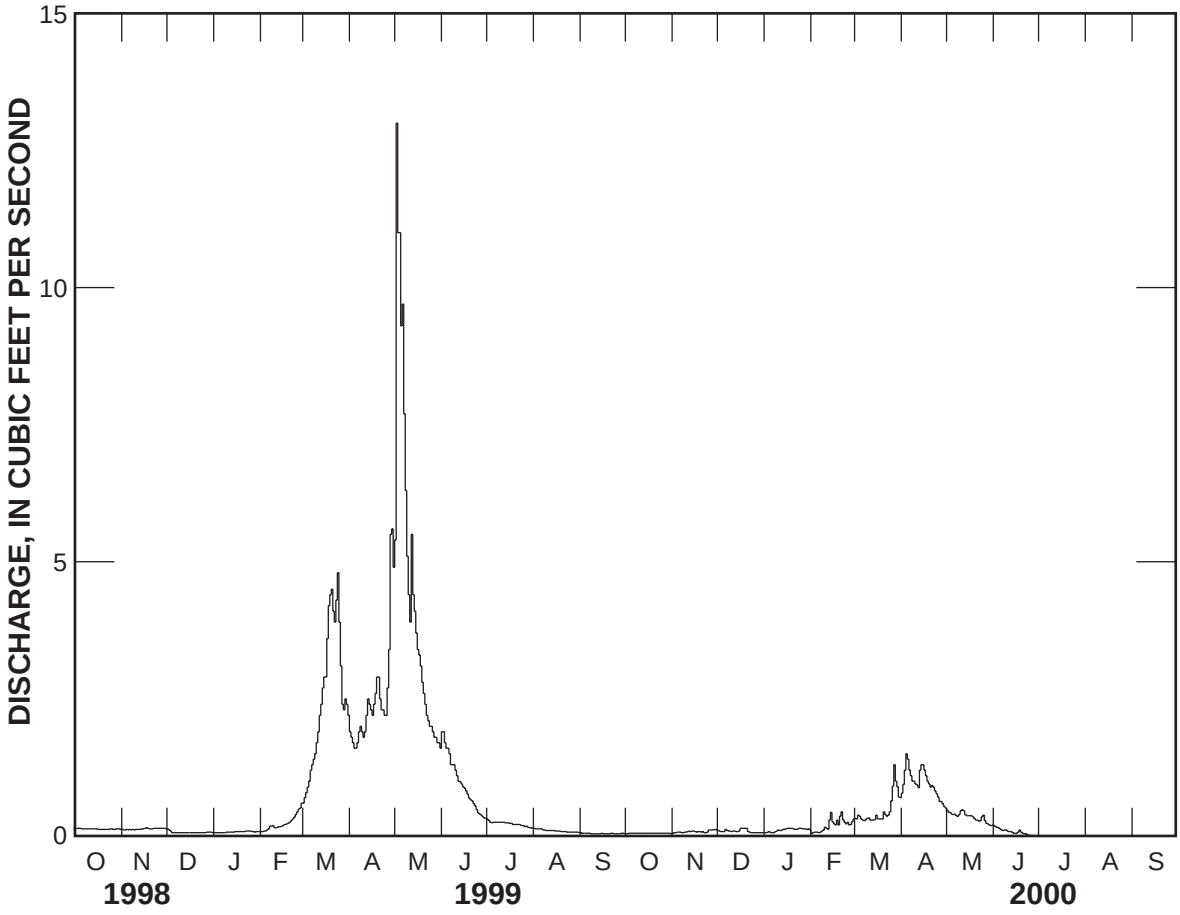


**Figure 4.** Daily mean discharge of the creek in Indian Hollow near Kamas, Utah.

**Table 8**. Daily mean discharge of Beaver Creek at Lind Bridge near Kamas, Utah

[Gaging station operated and data provided by Utah Department of Natural Resources, Division of Water Rights. Gaging station is located at (D-2-6)22dca and is site number 9 on plate 1. Discharge is in cubic feet per second ($ft^3/s$); —, no data available]

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Water year 1997 | | | | | | |
| 1 | — | — | — | 12.4 | 12.0 | 14.7 | — | 110 | 246 | 42.6 | 20.8 | 15.1 |
| 2 | — | — | — | 13.0 | 12.0 | 15.8 | — | 96 | 229 | 44.6 | 18.3 | 15.7 |
| 3 | — | — | — | 14.8 | 11.9 | 16.8 | — | 90 | 220 | 42.5 | 16.5 | 16.4 |
| 4 | — | 11.2 | — | 14.0 | 11.8 | 17.7 | 65 | 95 | 231 | 40.4 | 25.6 | 16.1 |
| 5 | — | 12.1 | — | 13.1 | 11.9 | 18.8 | 61 | 109 | 212 | 37.5 | 34.4 | 15.5 |
| 6 | — | 10.2 | — | 12.8 | 11.7 | 20.2 | 57 | 126 | 185 | 33.2 | 21.2 | 16.0 |
| 7 | — | 10.6 | — | 12.7 | 11.9 | 22.1 | 57 | 145 | 173 | 29.5 | 19.4 | 14.9 |
| 8 | — | 10.4 | — | 12.9 | 11.7 | 23.4 | 58 | 161 | 174 | 28.1 | 18.0 | 13.9 |
| 9 | — | 10.6 | — | 12.7 | 11.6 | 23.6 | 60 | 177 | 174 | 27.1 | 17.8 | 13.5 |
| 10 | — | 10.6 | — | 12.7 | 11.6 | 25.6 | 58 | 200 | 235 | 25.8 | 20.4 | 13.9 |
| 11 | — | 10.5 | — | 12.9 | 11.6 | 29.2 | 56 | 225 | 165 | 25.4 | 22.2 | 14.5 |
| 12 | — | 10.7 | — | 13.0 | 11.7 | 32.5 | 54 | 241 | 139 | 29.3 | 22.0 | 14.8 |
| 13 | — | 11.0 | — | — | 12.1 | 35.2 | 53 | 247 | 126 | 26.6 | 22.3 | 13.9 |
| 14 | — | 11.1 | — | — | 12.0 | 37.1 | 55 | 235 | 114 | 24.5 | 19.9 | 13.4 |
| 15 | — | 10.1 | — | — | 12.0 | 34.3 | 58 | 255 | 105 | 23.7 | 18.5 | 13.6 |
| 16 | — | 10.4 | — | — | 12.0 | 30.3 | 70 | 266 | 95 | 21.7 | 17.8 | 15.9 |
| 17 | — | 9.4 | — | — | 11.8 | 37.0 | 92 | 278 | 93 | 22.2 | 17.9 | 13.6 |
| 18 | — | 11.4 | 11.9 | — | 11.9 | 43.9 | 117 | 308 | 93 | 22.9 | 16.9 | 16.2 |
| 19 | — | 12.0 | 12.0 | — | 11.7 | 47.1 | 128 | 282 | 91 | 23.4 | 14.8 | 25.2 |
| 20 | — | 12.4 | 11.8 | — | 11.9 | 48.7 | 133 | 264 | 83 | 23.1 | 14.6 | 20.8 |
| 21 | — | 12.0 | 11.7 | — | 11.2 | 44.3 | 140 | 253 | 73 | 21.9 | 18.2 | 18.9 |
| 22 | — | 21.1 | 11.9 | — | 10.4 | 45.3 | 121 | 226 | 66 | 22.2 | 17.8 | 16.8 |
| 23 | — | 16.0 | 11.8 | — | 10.4 | 47.2 | 112 | — | 70 | 25.9 | 15.4 | 15.0 |
| 24 | — | 12.7 | 11.7 | — | 10.2 | 49.0 | 106 | — | 62 | 26.1 | 14.8 | 14.4 |
| 25 | — | 12.7 | 11.7 | — | 11.1 | 51 | 96 | — | 57 | 22.6 | 16.2 | 14.9 |
| 26 | — | — | 12.0 | — | — | 53 | 97 | — | 52 | 21.6 | 15.3 | 20.6 |
| 27 | — | — | 12.0 | — | — | 79 | 112 | 122 | 48.8 | 20.3 | 13.8 | 18.6 |
| 28 | — | — | 12.0 | — | — | 49.6 | 99 | 115 | 45.6 | 22.3 | 14.8 | 16.2 |
| 29 | — | — | 11.8 | — | — | 34.5 | 143 | 117 | 43.0 | 22.6 | 15.7 | 14.6 |
| 30 | — | — | 12.0 | — | — | — | 116 | 138 | 40.5 | 21.9 | 14.2 | 12.8 |
| 31 | — | — | 12.2 | 11.9 | — | — | — | 203 | — | 21.8 | 15.2 | — |
| **Monthly total (acre-feet)** | — | — | — | — | — | — | — | — | 7,417 | 1,673 | 1,132 | 943 |
| **Monthly mean ($ft^3/s$)** | — | — | — | — | — | — | — | — | 125 | 27.2 | 18.4 | 15.9 |

**Table 8.** Daily mean discharge of Beaver Creek at Lind Bridge near Kamas, Utah—Continued

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Water year 1998 | | | | | | |
| 1 | 12.5 | 13.3 | — | 10.1 | 11.0 | 11.2 | 26.6 | 144 | 204 | 108 | 30.4 | 16.1 |
| 2 | 13.0 | 12.4 | — | 10.7 | 11.0 | 11.2 | 24.0 | 155 | 214 | 101 | 29.7 | 17.4 |
| 3 | 14.6 | 12.2 | — | 10.7 | 11.1 | 11.3 | 23.2 | 174 | 211 | 94 | 27.8 | 15.7 |
| 4 | 13.5 | 12.2 | — | 10.8 | 11.4 | 11.2 | 23.2 | 185 | 192 | 86 | 23.9 | 15.5 |
| 5 | 13.5 | 12.0 | — | 10.9 | 11.3 | 11.1 | 22.1 | 155 | 141 | 78 | 23.2 | 15.2 |
| 6 | 13.3 | 11.9 | — | 10.7 | 10.7 | 11.3 | 22.5 | 140 | 117 | 67 | 22.4 | 15.2 |
| 7 | 13.9 | 11.8 | — | 10.7 | 11.1 | 11.3 | 21.6 | 137 | 108 | 59 | 21.9 | 15.7 |
| 8 | 14.7 | 11.8 | — | 10.8 | 10.9 | 11.3 | 21.0 | 138 | 101 | 55 | 21.0 | 15.3 |
| 9 | 14.1 | 12.1 | — | 10.8 | 10.8 | 11.3 | 20.5 | 143 | 104 | 51 | 22.2 | 14.5 |
| 10 | 14.0 | 11.8 | — | 10.8 | 11.0 | 11.3 | 23.6 | 147 | 102 | 57 | 21.6 | 15.6 |
| 11 | 15.8 | 12.0 | — | 11.0 | 10.9 | 11.4 | 30.8 | 130 | 101 | 56 | 22.4 | 15.6 |
| 12 | 15.6 | 11.9 | — | 11.2 | 10.7 | 11.8 | 33.8 | 120 | 109 | 62 | 20.3 | 15.2 |
| 13 | 15.0 | 11.9 | — | 11.3 | 10.7 | 12.5 | 29.5 | 116 | 126 | 58 | 19.2 | 16.0 |
| 14 | 15.2 | 11.1 | — | 10.9 | 10.8 | 13.1 | 28.7 | 104 | 125 | 55 | 18.4 | 15.0 |
| 15 | 15.6 | 10.2 | — | 11.2 | 11.0 | 14.1 | 27.5 | 102 | 126 | 52 | 18.2 | 14.2 |
| 16 | 15.7 | 11.5 | — | 11.6 | 11.1 | 15.1 | 26.1 | 96 | 128 | 49.3 | 18.2 | 14.0 |
| 17 | 15.6 | 11.3 | — | 11.6 | 10.8 | 15.0 | 24.1 | 94 | 123 | 46.4 | 17.6 | 13.9 |
| 18 | 15.3 | 11.2 | — | 11.6 | 10.8 | 14.0 | 24.9 | 100 | 147 | 43.2 | 18.0 | 13.8 |
| 19 | 15.0 | 11.2 | — | 11.6 | 10.5 | 13.4 | 26.2 | 109 | 180 | 41.4 | 18.4 | 14.1 |
| 20 | 15.0 | 11.5 | — | 11.6 | 11.0 | 14.1 | 31.5 | 126 | 194 | 41.7 | 17.4 | 14.4 |
| 21 | 15.2 | 11.3 | — | 11.6 | 11.0 | 15.2 | 43.1 | 183 | 190 | 40.3 | 17.7 | 15.5 |
| 22 | 15.0 | 10.8 | 9.9 | 11.5 | 11.2 | 16.9 | 61 | 150 | 198 | 40.7 | 16.9 | 16.5 |
| 23 | 15.4 | 11.2 | 9.9 | 11.3 | 11.0 | 21.5 | 91 | 124 | 194 | — | 16.4 | 15.9 |
| 24 | 16.4 | 11.0 | 9.9 | 11.3 | 11.1 | 33.2 | 113 | 114 | 173 | — | 16.2 | 15.2 |
| 25 | 15.2 | 11.1 | 9.9 | 11.3 | 10.7 | 43.0 | 97 | 116 | 155 | 47.8 | 17.5 | 15.2 |
| 26 | 15.2 | 11.0 | 9.9 | 11.2 | 11.2 | 44.9 | 91 | 136 | 147 | 47.9 | 20.0 | 15.3 |
| 27 | 15.6 | 11.0 | 9.9 | 11.3 | 10.8 | 45.4 | 97 | 136 | 134 | 42.3 | 21.5 | 14.6 |
| 28 | 13.8 | 11.5 | 10.0 | 11.0 | 11.3 | 38.6 | 102 | 158 | 124 | 45.9 | 17.0 | 14.4 |
| 29 | 12.9 | 10.8 | 10.0 | 11.0 | — | 31.9 | 109 | 182 | 121 | 37.8 | 16.1 | 14.4 |
| 30 | 12.7 | — | 10.0 | 11.0 | — | 28.0 | 127 | 197 | 114 | 34.3 | 15.8 | 14.7 |
| 31 | 13.4 | — | 10.0 | 11.0 | — | 27.1 | — | 198 | — | 32.5 | 15.4 | — |
| **Monthly total (acre-feet)** | 896 | — | — | 682 | 608 | 1,176 | 2,860 | 8,545 | 8,734 | — | 1,235 | 901 |
| **Monthly mean ($ft^3/s$)** | 14.6 | — | — | 11.1 | 11.0 | 19.1 | 48.1 | 139 | 147 | — | 20.1 | 15.1 |

**Table 8.** Daily mean discharge of Beaver Creek at Lind Bridge near Kamas, Utah—Continued

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | **Water Year 1999** | | | | | | |
| 1 | 16.2 | 15.4 | 11.0 | 9.5 | 9.8 | 11.7 | 23.0 | 67 | 154 | 58 | 21.5 | 19.4 |
| 2 | 16.0 | 15.4 | 11.0 | 9.3 | 9.8 | 11.9 | 21.1 | 72 | 162 | 52 | 19.5 | 21.0 |
| 3 | 17.5 | 14.3 | 10.6 | 9.2 | 9.9 | 12.1 | 19.9 | 89 | 146 | 47.7 | 18.9 | 26.4 |
| 4 | 19.3 | 12.8 | 10.9 | 9.2 | 9.9 | 12.3 | 18.7 | 75 | 130 | 44.4 | 19.6 | 23.1 |
| 5 | 18.2 | 12.8 | 9.9 | 9.3 | 9.9 | 12.5 | 17.8 | 67 | 116 | 41.4 | 20.7 | 19.9 |
| 6 | 17.9 | 13.3 | 10.0 | 9.3 | 10.0 | 12.7 | 17.6 | 71 | 109 | 41.9 | 21.6 | 18.5 |
| 7 | 18.3 | 12.4 | 9.9 | 9.3 | 10.0 | 12.9 | 18.3 | 84 | 111 | 44.6 | 18.7 | 17.7 |
| 8 | 18.0 | 12.8 | 9.8 | 9.3 | 10.0 | 13.1 | 20.6 | 98 | 121 | 47.4 | 17.6 | 16.5 |
| 9 | 17.1 | 12.5 | 9.8 | 9.2 | 10.1 | 13.3 | 20.0 | 102 | 143 | 41.3 | 16.6 | 16.5 |
| 10 | 16.7 | 12.5 | 9.8 | 9.3 | 10.1 | 13.5 | 18.6 | 87 | 149 | 37.5 | 16.6 | 16.4 |
| 11 | 16.2 | 12.3 | 9.8 | 9.4 | 10.1 | 13.7 | 18.7 | 77 | 143 | 35.5 | 17.6 | 16.2 |
| 12 | 16.2 | 12.0 | 9.8 | 9.4 | 10.2 | 14.0 | 20.3 | 73 | 161 | 33.5 | 18.4 | 15.8 |
| 13 | 16.1 | 11.9 | 9.9 | 9.2 | 10.2 | 14.2 | 24.4 | 96 | 167 | 32.2 | 17.2 | 15.6 |
| 14 | 16.2 | 12.1 | 10.1 | 9.0 | 10.2 | 14.4 | 28.3 | 91 | 160 | 33.0 | 16.4 | 15.4 |
| 15 | 16.5 | 12.6 | 9.9 | 9.2 | 10.3 | 14.7 | 27.9 | 85 | 176 | 33.9 | 16.0 | 15.4 |
| 16 | 16.3 | 12.2 | 9.6 | 9.3 | 10.3 | 15.0 | 28.3 | 78 | 182 | 32.5 | 15.4 | 15.2 |
| 17 | 16.6 | 12.1 | 9.5 | 9.5 | 10.3 | 15.9 | 31.8 | 73 | 173 | 35.2 | 15.0 | 15.1 |
| 18 | 16.3 | 12.3 | 9.5 | 9.5 | 10.4 | 16.7 | 39.2 | 77 | 158 | 29.8 | 14.9 | 15.1 |
| 19 | 16.1 | 11.3 | 9.4 | 9.5 | 10.4 | 20.3 | 47.7 | 89 | 148 | 28.5 | 14.6 | 16.3 |
| 20 | 16.1 | 10.7 | 9.3 | 9.5 | 10.5 | 23.9 | 58 | 95 | 134 | 27.3 | 18.2 | 17.0 |
| 21 | 16.1 | 11.7 | 9.3 | 9.5 | 10.5 | 23.7 | 52 | 107 | 119 | 26.3 | 21.8 | 15.5 |
| 22 | 16.1 | 11.6 | 9.3 | 9.5 | 10.5 | 23.2 | 46.4 | 122 | 106 | 25.8 | 19.2 | 15.2 |
| 23 | 16.1 | 11.4 | 9.4 | 9.6 | 10.6 | 24.7 | 43.9 | 144 | 98 | 24.1 | 18.9 | 14.8 |
| 24 | 16.1 | 11.4 | 9.4 | 9.6 | 10.6 | 25.6 | 42.6 | 178 | 91 | 23.3 | 19.0 | 14.8 |
| 25 | 16.4 | 11.1 | 9.4 | 9.6 | 10.8 | 31.8 | 41.8 | 196 | 83 | 22.6 | 18.7 | 14.5 |
| 26 | 16.5 | 11.1 | 9.4 | 9.6 | 11.0 | 30.9 | 45.0 | 192 | 75 | 20.2 | 18.2 | 13.8 |
| 27 | 16.7 | 11.4 | 9.4 | 9.6 | 11.2 | 26.7 | 56 | 195 | 87 | 19.1 | 19.5 | 14.9 |
| 28 | 16.1 | 11.5 | 9.8 | 9.7 | 11.4 | 23.7 | 63 | 208 | 78 | 20.7 | 22.8 | 13.9 |
| 29 | 15.8 | 11.5 | 9.9 | 9.7 | — | 24.2 | 82 | 224 | 70 | 22.9 | 18.8 | 13.8 |
| 30 | 16.8 | 11.1 | 9.8 | 9.7 | — | 26.6 | 75 | 202 | 63 | 28.6 | 19.9 | 13.7 |
| 31 | 16.3 | — | 9.7 | 9.8 | — | 25.4 | — | 187 | — | 31.4 | 24.5 | — |
| **Monthly total (acre-feet)** | 1,026 | 729 | 604 | 579 | 573 | 1,141 | 2,118 | 7,137 | 7,564 | 2,067 | 1,143 | 986 |
| **Monthly mean ($ft^3/s$)** | 16.7 | 12.2 | 9.8 | 9.4 | 10.3 | 18.6 | 35.6 | 116 | 127 | 33.6 | 18.6 | 16.6 |
| **Yearly total (acre-feet)** | 25,667 | | | | | | | | | | | |

**Table 8.** Daily mean discharge of Beaver Creek at Lind Bridge near Kamas, Utah—Continued

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Water Year 2000 | | | | | | |
| 1 | 13.6 | 12.7 | 11.4 | 10.8 | 9.7 | 9.2 | 20.9 | 73 | 66 | 18.9 | 9.7 | 11.2 |
| 2 | 13.6 | 12.1 | 10.6 | 10.8 | 9.7 | 9.3 | 23.4 | 82 | 72 | 17.1 | 9.6 | 10.9 |
| 3 | 13.5 | 10.7 | 11.1 | 10.7 | 9.6 | 9.8 | 27.9 | 94 | 65 | 15.9 | 9.4 | 9.5 |
| 4 | 13.5 | 10.0 | 10.6 | 10.7 | 9.6 | 11.0 | 35.9 | 108 | 59 | 15.7 | 9.5 | 9.0 |
| 5 | 13.5 | 10.2 | 10.8 | 10.7 | 9.5 | 11.9 | 45.8 | 117 | 54 | 15.2 | 9.4 | 8.5 |
| 6 | 13.7 | 9.8 | 11.6 | 10.6 | 9.4 | 11.3 | 44.9 | 106 | 49.2 | 14.8 | 8.8 | 9.2 |
| 7 | 13.4 | 9.8 | 11.6 | 10.6 | 9.4 | 11.7 | 41.7 | 99 | 45.0 | 14.3 | 8.8 | 9.5 |
| 8 | 13.4 | 9.8 | 11.1 | 10.6 | 9.5 | 11.7 | 44.5 | 87 | 42.2 | 13.7 | 9.1 | 9.7 |
| 9 | 13.3 | 9.7 | 10.8 | 10.5 | 9.6 | 11.8 | 47.8 | 79 | 43.4 | 13.8 | 9.3 | 11.0 |
| 10 | 13.3 | 9.7 | 11.0 | 10.6 | 9.8 | 11.4 | 46.0 | 74 | 46.8 | 13.8 | 9.6 | 10.0 |
| 11 | 13.2 | 9.8 | 11.0 | 10.6 | 10.1 | 11.8 | 45.4 | 74 | 43.2 | 13.7 | 9.1 | 9.6 |
| 12 | 13.1 | 9.8 | 11.1 | 10.5 | 9.9 | 12.2 | 49.4 | 70 | 40.0 | 12.7 | 8.6 | 9.3 |
| 13 | 12.9 | 9.3 | 11.2 | 10.4 | 9.7 | 12.1 | 52 | 63 | 38.4 | 12.3 | 8.3 | 8.9 |
| 14 | 13.1 | 9.5 | 11.2 | 10.3 | 9.8 | 12.6 | 63 | 59 | 37.4 | 12.1 | 8.4 | 7.8 |
| 15 | 12.9 | 9.9 | 11.2 | 10.3 | 10.0 | 12.8 | 55 | 57 | 34.8 | 12.2 | 8.8 | 7.6 |
| 16 | 12.8 | 10.4 | 11.2 | 10.9 | 9.8 | 12.4 | 49.8 | 60 | 32.1 | 12.2 | 9.6 | 7.5 |
| 17 | 12.8 | 10.7 | 11.6 | 11.0 | 9.9 | 13.3 | 46.9 | 57 | 30.7 | 12.2 | 8.8 | 7.9 |
| 18 | 13.2 | 10.7 | 11.3 | 11.7 | 9.7 | 13.1 | 49.3 | 57 | 31.4 | 11.0 | 8.9 | 8.2 |
| 19 | 13.0 | 10.5 | 11.3 | 14.4 | 9.4 | 13.0 | 45.5 | 53 | 36.9 | 10.2 | 12.2 | 8.6 |
| 20 | 12.9 | 10.8 | 11.3 | 13.4 | 9.7 | 13.4 | 42.0 | 58 | 31.9 | 10.0 | 9.9 | 8.7 |
| 21 | 13.0 | 10.7 | 11.5 | 12.3 | 10.2 | 13.1 | 41.2 | 69 | 28.2 | 10.7 | 9.1 | 9.2 |
| 22 | 12.9 | 10.8 | 11.2 | 11.3 | 10.3 | 13.9 | 44.3 | 86 | 26.7 | 10.7 | 9.0 | 12.3 |
| 23 | 12.8 | 9.6 | 11.1 | 10.6 | 9.7 | 15.3 | 47.8 | 102 | 24.6 | 10.7 | 9.5 | 13.2 |
| 24 | 12.8 | 10.0 | 11.1 | 10.8 | 9.4 | 16.0 | 47.3 | 107 | 23.6 | 10.8 | 10.3 | 12.3 |
| 25 | 12.6 | 10.2 | 11.1 | 10.9 | 8.8 | 16.7 | 45.4 | 120 | 22.5 | 11.2 | 9.5 | 12.2 |
| 26 | 12.6 | 11.1 | 11.0 | 10.8 | 8.8 | 19.4 | 49.5 | 136 | 22.3 | 11.5 | 10.3 | 11.6 |
| 27 | 12.5 | 11.5 | 11.0 | 10.1 | 8.9 | 23.0 | 57 | 104 | 22.6 | 10.9 | 12.1 | 11.1 |
| 28 | 12.6 | 11.3 | 10.9 | 9.2 | 8.9 | 25.3 | 69 | 97 | 20.2 | 10.5 | 9.2 | 10.8 |
| 29 | 13.8 | 11.2 | 10.9 | 9.2 | 9.0 | 22.7 | 78 | 96 | 17.6 | 10.5 | 8.4 | 11.3 |
| 30 | 12.5 | 11.4 | 10.9 | 9.1 | — | 21.8 | 72 | 85 | 17.5 | 10.0 | 9.4 | 11.7 |
| 31 | 12.8 | — | 10.9 | 9.3 | — | 20.3 | — | 73 | — | 9.5 | 10.5 | — |
| **Monthly total (acre-feet)** | 804 | 623 | 683 | 662 | 551 | 879 | 2,834 | 5,162 | 2,230 | 772 | 581 | 592 |
| **Monthly mean ($ft^3/s$)** | 13.1 | 10.5 | 11.1 | 10.8 | 9.6 | 14.3 | 47.6 | 84 | 37.5 | 12.6 | 9.4 | 9.9 |
| **Yearly total (acre-feet)** | 16,373 | | | | | | | | | | | |

**Table 9.** Daily mean discharge of Beaver Creek at Grist Mill near Kamas, Utah

[Gaging station operated and data provided by Utah Department of Natural Resources, Division of Water Rights. Gaging station is located at (D-2-6)21aaa and is site number 10 on plate 1. Discharge is in cubic feet per second ($ft^3/s$); —, no data available]

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Water year 1997 | | | | | | |
| 1 | — | 10.6 | 12.0 | 12.9 | 12.6 | 12.7 | 44.4 | 113 | 208 | 45.3 | 22.2 | 14.5 |
| 2 | — | 11.9 | 9.0 | 13.6 | 12.4 | 13.0 | 40.7 | 94 | 198 | 47.3 | 19.8 | 15.4 |
| 3 | — | 15.0 | 10.0 | 16.0 | 12.2 | 12.0 | 42.7 | 85 | 192 | 45.1 | 19.0 | 16.2 |
| 4 | — | 13.0 | 9.9 | 14.8 | 12.0 | 11.8 | 46.8 | 90 | 198 | 43.4 | 27.5 | 15.9 |
| 5 | — | 12.6 | 14.5 | 13.3 | 11.9 | 11.9 | 43.0 | 109 | 183 | 40.9 | 37.6 | 14.9 |
| 6 | — | 10.6 | 14.1 | 13.4 | 11.8 | 12.4 | 39.6 | 126 | 163 | 37.5 | 25.3 | 15.7 |
| 7 | — | 10.5 | 10.6 | 13.6 | 12.1 | 12.4 | 39.9 | 143 | 153 | 35.6 | 23.4 | 14.5 |
| 8 | — | 10.9 | 12.6 | 13.9 | 11.9 | 12.3 | 40.9 | 154 | 152 | 34.7 | 21.7 | 14.1 |
| 9 | — | 11.2 | 16.2 | 13.5 | 12.2 | 11.9 | 43.6 | 167 | 153 | 33.5 | 21.3 | 14.6 |
| 10 | — | 11.6 | 15.4 | 13.7 | 12.2 | 12.3 | 42.2 | 182 | 193 | 32.0 | 23.4 | 17.7 |
| 11 | — | 11.2 | 11.3 | 13.9 | 12.1 | 13.5 | 40.7 | 200 | 148 | 31.1 | 24.4 | 18.0 |
| 12 | — | 11.3 | 10.5 | 13.1 | 11.8 | 15.0 | 39.6 | 216 | 130 | 34.1 | 23.3 | 18.2 |
| 13 | — | 12.4 | 13.5 | 12.9 | 12.1 | 17.3 | 39.6 | 222 | 120 | 31.6 | 23.6 | 17.2 |
| 14 | — | 13.9 | 11.9 | 12.6 | 12.4 | 16.3 | 42.1 | 215 | 107 | 29.4 | 21.1 | 17.7 |
| 15 | — | 12.5 | 12.6 | 12.3 | 12.1 | 17.6 | 45.1 | 227 | 98 | 28.7 | 19.7 | 18.2 |
| 16 | — | 10.1 | 14.5 | 12.3 | 12.4 | 18.6 | 56 | 235 | 90 | 26.3 | 18.7 | 22.0 |
| 17 | — | 9.4 | 11.9 | 12.5 | 13.0 | 21.0 | 74 | 247 | 88 | 28.0 | 18.5 | 18.3 |
| 18 | — | 11.6 | 17.1 | 12.5 | 12.3 | 22.2 | 96 | 275 | 88 | 28.4 | 17.1 | 20.7 |
| 19 | — | 13.1 | 12.4 | 12.6 | 12.7 | 28.4 | 108 | 256 | 87 | 28.4 | 15.1 | 31.9 |
| 20 | — | 12.0 | 15.8 | 13.4 | 12.4 | 37.7 | 113 | 242 | 79 | 27.4 | 16.1 | 26.7 |
| 21 | — | 12.9 | 16.7 | 12.6 | 12.3 | 46.2 | 121 | 231 | 72 | 25.9 | 19.0 | 24.8 |
| 22 | — | 22.2 | 12.3 | 12.7 | 12.2 | 51 | 107 | 209 | 68 | 26.1 | 18.0 | 21.5 |
| 23 | — | 16.1 | 11.4 | 12.4 | 12.2 | 54 | 99 | 193 | 71 | 29.0 | 15.4 | 19.1 |
| 24 | — | 13.1 | 11.9 | 12.5 | 13.3 | 55 | 95 | 192 | 65 | 29.2 | 16.0 | 16.8 |
| 25 | 13.4 | 13.0 | 12.7 | 13.3 | 12.8 | 45.7 | 85 | 165 | 59 | 24.7 | 16.2 | 15.2 |
| 26 | 11.5 | 10.7 | 13.1 | 13.3 | 13.8 | 47.5 | 88 | 138 | 55 | 23.4 | 14.9 | 20.6 |
| 27 | 12.1 | 13.7 | 12.0 | 12.1 | 13.5 | 48.1 | 103 | 112 | 53 | 22.2 | 13.4 | 19.7 |
| 28 | 14.9 | 22.6 | 11.4 | 13.0 | 12.6 | 45.2 | 131 | 106 | 49.5 | 23.5 | 14.4 | 16.8 |
| 29 | 12.9 | 16.9 | 11.5 | 12.0 | — | 42.2 | 144 | 107 | 47.5 | 24.1 | 15.3 | 15.5 |
| 30 | 13.2 | 10.7 | 11.9 | 12.3 | — | 43.6 | 119 | 126 | 43.9 | 23.3 | 13.5 | 14.5 |
| 31 | 11.3 | — | 12.1 | 13.0 | — | 47.4 | — | 174 | — | 23.1 | 14.8 | — |
| **Monthly total (acre-feet)** | — | 768 | 779 | 805 | 689 | 1,699 | 4,303 | 10,611 | 6,767 | 1,910 | 1,209 | 1,085 |
| **Monthly mean ($ft^3/s$)** | — | 12.9 | 12.7 | 13.1 | 12.4 | 27.6 | 72 | 173 | 114 | 31.1 | 19.7 | 18.2 |

**Table 9.** Daily mean discharge of Beaver Creek at Grist Mill near Kamas, Utah—Continued

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Water year 1998 | | | | | | |
| 1 | 14.3 | 11.8 | 12.5 | 10.8 | 11.4 | 12.4 | 28.5 | 137 | 168 | 97 | 31.1 | 16.2 |
| 2 | 15.2 | 11.1 | 12.3 | 11.2 | 11.4 | 12.4 | 26.7 | 144 | 175 | 90 | 30.2 | 17.6 |
| 3 | 16.6 | 11.2 | 11.7 | 11.2 | 11.7 | 12.5 | 25.6 | 158 | 178 | 82 | 28.7 | 15.2 |
| 4 | 14.8 | 11.1 | 11.4 | 11.2 | 12.0 | 12.5 | 25.7 | 167 | 164 | 75 | 26.3 | 17.3 |
| 5 | 14.1 | 10.9 | 11.8 | 11.3 | 11.9 | 12.3 | 24.7 | 144 | 128 | 69 | 25.8 | 18.3 |
| 6 | 13.9 | 11.0 | 11.9 | 11.0 | 11.7 | 12.6 | 25.0 | 132 | 105 | 61 | 25.0 | 18.0 |
| 7 | 14.6 | 11.1 | 12.2 | 11.0 | 11.9 | 12.3 | 24.5 | 129 | 92 | 58 | 24.5 | 18.3 |
| 8 | 16.5 | 11.2 | 12.3 | 10.9 | 11.9 | 12.0 | 24.0 | 129 | 85 | 54 | 23.8 | 17.1 |
| 9 | 15.8 | 11.6 | 12.2 | 11.0 | 11.8 | 12.0 | 23.7 | 131 | 87 | 49.6 | 24.8 | 15.8 |
| 10 | 15.8 | 11.6 | 12.0 | 10.9 | 11.8 | 12.2 | 26.0 | 132 | 84 | 55 | 24.0 | 18.1 |
| 11 | 17.9 | 12.1 | 11.5 | 11.1 | 11.9 | 12.4 | 32.2 | 117 | 83 | 54 | 25.0 | 18.2 |
| 12 | 17.6 | 12.3 | 11.3 | 11.2 | 11.9 | 12.9 | 35.0 | 104 | 91 | 60 | 22.8 | 17.8 |
| 13 | 16.4 | 12.2 | 11.1 | 11.5 | 11.9 | 13.7 | 31.5 | 101 | 109 | 57 | 21.8 | 19.1 |
| 14 | 17.0 | 11.6 | 11.1 | 11.4 | 12.0 | 14.5 | 30.7 | 88 | 108 | 53 | 21.1 | 17.2 |
| 15 | 17.2 | 11.1 | 11.1 | 11.5 | 12.2 | 15.6 | 29.9 | 86 | 110 | 50 | 20.6 | 15.9 |
| 16 | 17.0 | 11.8 | 11.0 | 11.5 | 12.3 | 16.7 | 28.9 | 79 | 112 | 47.4 | 20.6 | 15.2 |
| 17 | 16.7 | 12.2 | 10.9 | 11.9 | 12.1 | 17.2 | 27.3 | 77 | 108 | 44.9 | 19.8 | 14.5 |
| 18 | 16.1 | 12.3 | 10.9 | 11.9 | 12.1 | 15.4 | 27.6 | 81 | 128 | 42.8 | 20.1 | 13.9 |
| 19 | 15.5 | 12.6 | 10.9 | 12.1 | 11.9 | 14.6 | 28.8 | 90 | 158 | 41.5 | 20.3 | 13.5 |
| 20 | 15.5 | 13.1 | 10.7 | 11.9 | 12.3 | 15.3 | 32.7 | 105 | 171 | 40.4 | 19.3 | 13.7 |
| 21 | 15.6 | 13.0 | 10.7 | 11.8 | 12.4 | 16.4 | 42.9 | 150 | 169 | 40.0 | 19.3 | 15.1 |
| 22 | 12.2 | 12.7 | 10.6 | 11.6 | 12.7 | 18.9 | 58 | 127 | 175 | 40.6 | 18.5 | 16.9 |
| 23 | 12.8 | 13.1 | 10.6 | 11.5 | 12.6 | 23.6 | 86 | 105 | 172 | 39.6 | 17.7 | 16.3 |
| 24 | 14.5 | 12.8 | 10.6 | 11.5 | 12.7 | 34.0 | 113 | 94 | 156 | 43.5 | 17.2 | 15.5 |
| 25 | 13.1 | 13.0 | 10.5 | 11.3 | 12.3 | 42.2 | 100 | 94 | 142 | 45.6 | 18.4 | 15.2 |
| 26 | 13.2 | 14.8 | 10.4 | 11.4 | 13.1 | 44.0 | 93 | 113 | 137 | 45.8 | 21.5 | 15.3 |
| 27 | 14.1 | 13.3 | 10.4 | 11.2 | 12.9 | 44.5 | 99 | 114 | 128 | 41.3 | 22.8 | 14.4 |
| 28 | 11.7 | 13.9 | 10.4 | 11.2 | 12.6 | 38.9 | 104 | 130 | 115 | 44.0 | 18.2 | 13.8 |
| 29 | 10.8 | 12.6 | 10.6 | 11.4 | — | 33.4 | 111 | 150 | 112 | 37.8 | 16.9 | 13.6 |
| 30 | 10.7 | 12.9 | 10.7 | 11.3 | — | 30.1 | 124 | 163 | 105 | 34.9 | 16.4 | 14.4 |
| 31 | 11.5 | — | 10.8 | 11.4 | — | 29.2 | — | 164 | — | 33.1 | 15.7 | — |
| **Monthly total (acre-feet)** | 910 | 725 | 688 | 698 | 673 | 1,243 | 2,952 | 7,410 | 7,655 | 3,229 | 1,345 | 955 |
| **Monthly mean ($ft^3/s$)** | 14.8 | 12.2 | 11.2 | 11.3 | 12.1 | 20.2 | 49.6 | 121 | 129 | 53 | 21.9 | 16.0 |
| **Yearly total (acre-feet)** | 28,483 | | | | | | | | | | | |

**Table 9.** Daily mean discharge of Beaver Creek at Grist Mill near Kamas, Utah—Continued

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Water year 1999 | | | | | | |
| 1 | 15.9 | 14.7 | 11.7 | 10.2 | 10.1 | 11.6 | 22.4 | 63 | 143 | 51 | 22.6 | 15.7 |
| 2 | 15.6 | 14.7 | 11.6 | 10.2 | 10.0 | 11.3 | 21.1 | 67 | 149 | 46.3 | 20.5 | 16.8 |
| 3 | 17.4 | 13.6 | 11.3 | 10.0 | 10.1 | 11.3 | 20.2 | 84 | 138 | 42.0 | 19.9 | 21.1 |
| 4 | 19.2 | 11.5 | 11.6 | 9.9 | 10.1 | 11.3 | 19.1 | 69 | 121 | 38.8 | 20.4 | 18.6 |
| 5 | 18.1 | 11.7 | 10.7 | 9.9 | 10.0 | 11.1 | 18.3 | 62 | 109 | 37.0 | 21.3 | 16.3 |
| 6 | 17.5 | 12.3 | 10.5 | 9.9 | 10.0 | 11.0 | 18.0 | 66 | 101 | 37.2 | 22.0 | 15.2 |
| 7 | 17.7 | 11.6 | 10.7 | 10.0 | 10.1 | 11.2 | 18.4 | 78 | 100 | 40.1 | 19.2 | 14.5 |
| 8 | 17.4 | 12.3 | 10.5 | 10.0 | 10.4 | 11.1 | 20.6 | 93 | 107 | 42.7 | 18.3 | 13.5 |
| 9 | 16.5 | 11.9 | 10.8 | 9.8 | 11.4 | 11.1 | 20.5 | 98 | 125 | 37.7 | 17.3 | 13.5 |
| 10 | 16.0 | 12.1 | 10.5 | 9.8 | 12.2 | 11.1 | 18.5 | 82 | 131 | 35.0 | 16.6 | 13.5 |
| 11 | 15.5 | 11.8 | 10.3 | 9.9 | 11.8 | 11.2 | 19.0 | 73 | 126 | 33.1 | 17.5 | 14.6 |
| 12 | 15.3 | 11.5 | 10.4 | 10.0 | 10.8 | 11.1 | 20.2 | 68 | 139 | 31.8 | 17.3 | 15.2 |
| 13 | 14.7 | 11.5 | 10.5 | 9.9 | 10.8 | 11.3 | 23.4 | 91 | 144 | 30.7 | 15.7 | 15.0 |
| 14 | 14.7 | 11.8 | 10.6 | 9.9 | 10.9 | 12.0 | 27.8 | 85 | 136 | 31.6 | 16.5 | 15.0 |
| 15 | 15.4 | 12.7 | 10.3 | 9.9 | 10.8 | 13.4 | 27.5 | 79 | 150 | 32.8 | 16.6 | 14.9 |
| 16 | 15.5 | 12.4 | 10.3 | 10.0 | 10.8 | 14.4 | 27.7 | 72 | 160 | 31.7 | 15.9 | 14.7 |
| 17 | 15.8 | 12.3 | 10.3 | 10.0 | 10.7 | 15.5 | 30.3 | 68 | 151 | 34.8 | 15.7 | 14.8 |
| 18 | 15.4 | 12.7 | 10.3 | 10.2 | 10.6 | 16.8 | 36.3 | 71 | 134 | 29.2 | 15.9 | 15.0 |
| 19 | 15.1 | 11.4 | 10.3 | 10.3 | 10.4 | 19.7 | 43.8 | 82 | 127 | 26.7 | 16.5 | 15.9 |
| 20 | 14.8 | 11.2 | 10.3 | 10.4 | 10.2 | 22.7 | 53 | 88 | 116 | 25.6 | 19.8 | 16.9 |
| 21 | 14.5 | 12.0 | 10.3 | 10.4 | 10.4 | 23.0 | 49.8 | 100 | 103 | 24.9 | 23.8 | 15.2 |
| 22 | 14.5 | 12.0 | 9.7 | 10.3 | 10.4 | 22.4 | 43.8 | 115 | 92 | 25.0 | 20.3 | 14.1 |
| 23 | 14.6 | 11.7 | 9.9 | 10.3 | 10.2 | 23.6 | 41.4 | 134 | 82 | 24.2 | 17.1 | 12.4 |
| 24 | 14.6 | 11.9 | 9.4 | 10.4 | 10.3 | 24.3 | 40.4 | 164 | 76 | 23.6 | 15.7 | 12.4 |
| 25 | 14.9 | 11.6 | 9.3 | 10.2 | 10.8 | 29.4 | 39.8 | 187 | 69 | 22.9 | 15.3 | 12.4 |
| 26 | 15.2 | 11.8 | 9.3 | 10.4 | 10.9 | 30.1 | 43.1 | 181 | 63 | 21.3 | 15.9 | 12.1 |
| 27 | 15.3 | 11.9 | 9.7 | 10.2 | 10.6 | 25.7 | 54 | 186 | 72 | 21.7 | 18.0 | 12.7 |
| 28 | 14.8 | 12.1 | 10.1 | 10.2 | 10.8 | 22.8 | 61 | 201 | 65 | 23.2 | 17.3 | 12.2 |
| 29 | 14.6 | 12.1 | 10.2 | 10.1 | — | 23.0 | 77 | 215 | 60 | 24.6 | 15.1 | 12.2 |
| 30 | 16.0 | 11.7 | 10.1 | 10.1 | — | 25.4 | 71 | 196 | 55 | 28.7 | 16.0 | 12.2 |
| 31 | 15.6 | — | 10.3 | 10.1 | — | 24.7 | — | 181 | — | 32.0 | 19.8 | — |
| **Monthly total (acre-feet)** | 968 | 723 | 638 | 621 | 588 | 1,060 | 2,038 | 6,744 | 6,630 | 1,960 | 1,110 | 869 |
| **Monthly mean ($ft^3/s$)** | 15.7 | 12.2 | 10.4 | 10.1 | 10.6 | 17.2 | 34.2 | 110 | 111 | 31.9 | 18.1 | 14.6 |
| **Yearly total (acre-feet)** | 23,949 | | | | | | | | | | | |

**Table 9.** Daily mean discharge of Beaver Creek at Grist Mill near Kamas, Utah—Continued

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Water year 2000 | | | | | | |
| 1 | 12.0 | 12.7 | 10.6 | 9.3 | 8.1 | 5.3 | 14.3 | 43.6 | 80 | 23.8 | 13.5 | 12.6 |
| 2 | 12.0 | 12.1 | 10.0 | 9.3 | 7.8 | 5.2 | 15.4 | 52 | 88 | 21.5 | 14.0 | 12.1 |
| 3 | 12.0 | 11.1 | 10.4 | 9.1 | 7.9 | 5.3 | 17.7 | 64 | 81 | 20.0 | 14.3 | 10.8 |
| 4 | 12.0 | 10.4 | 10.1 | 9.2 | 7.7 | 5.8 | 22.5 | 78 | 76 | 21.0 | 14.5 | 10.2 |
| 5 | 12.0 | 10.7 | 10.1 | 9.0 | 7.6 | 6.2 | 28.5 | 89 | 69 | 22.6 | 16.0 | 9.7 |
| 6 | 12.2 | 10.3 | 10.4 | 8.8 | 7.5 | 5.5 | 27.7 | 80 | 63 | 21.0 | 14.1 | 9.8 |
| 7 | 12.2 | 10.4 | 10.5 | 8.9 | 7.3 | 5.5 | 24.4 | 76 | 56 | 15.3 | 14.3 | 9.7 |
| 8 | 12.3 | 10.3 | 10.3 | 9.0 | 7.6 | 5.3 | 25.9 | 65 | 52 | 16.0 | 11.4 | 9.9 |
| 9 | 12.1 | 10.3 | 10.0 | 9.1 | 7.9 | 5.1 | 27.7 | 57 | 40.2 | 21.1 | 12.0 | 11.1 |
| 10 | 12.0 | 10.1 | 10.2 | 9.3 | 8.0 | 4.7 | 25.8 | 54 | 51 | 17.6 | 13.7 | 10.0 |
| 11 | 11.8 | 10.1 | 10.0 | 9.4 | 8.2 | 4.8 | 24.7 | 55 | 52 | 18.6 | 13.4 | 9.5 |
| 12 | 11.8 | 10.3 | 10.1 | 9.2 | 8.1 | 4.9 | 27.1 | 52 | 43.5 | 17.8 | 13.2 | 9.3 |
| 13 | 11.8 | 9.6 | 10.2 | 9.5 | 7.7 | 4.7 | 28.5 | 47.2 | 44.9 | 17.8 | 13.9 | 9.2 |
| 14 | 11.9 | 9.8 | 10.1 | 9.4 | 8.1 | 4.8 | 35.5 | 44.7 | 43.1 | 18.6 | 12.7 | 8.6 |
| 15 | 11.5 | 10.2 | 10.0 | 9.3 | 7.6 | 4.5 | 30.1 | 44.4 | 39.2 | 14.8 | 10.2 | 17.9 |
| 16 | 11.1 | 10.8 | 10.2 | 9.6 | 8.3 | 4.5 | 24.9 | 47.0 | 35.5 | 16.3 | 13.8 | 17.0 |
| 17 | 11.1 | 11.1 | 10.2 | 9.6 | 7.7 | 4.1 | 22.8 | 44.4 | 26.8 | 19.7 | 11.6 | 15.8 |
| 18 | 11.6 | 11.1 | 10.1 | 10.8 | 7.0 | 4.2 | 26.5 | 44.5 | 28.4 | 16.2 | 12.4 | 16.9 |
| 19 | 11.7 | 11.1 | 10.1 | 12.5 | 7.1 | 4.7 | 23.4 | 42.0 | 33.3 | 14.4 | 15.5 | 19.1 |
| 20 | 11.7 | 11.0 | 10.1 | 12.1 | 8.1 | 4.4 | 20.4 | 46.8 | 28.2 | 17.2 | 14.2 | 19.9 |
| 21 | 11.7 | 10.7 | 10.2 | 10.9 | 8.0 | 4.1 | 19.4 | 59 | 25.9 | 16.0 | 12.5 | 14.4 |
| 22 | 12.0 | 10.7 | 9.9 | 9.5 | 7.9 | 4.5 | 20.5 | 75 | 33.4 | 17.1 | 11.9 | 12.6 |
| 23 | 12.5 | 9.7 | 9.7 | 9.2 | 7.9 | 4.8 | 24.0 | 90 | 39.4 | 16.0 | 8.7 | 13.7 |
| 24 | 12.4 | 9.9 | 9.6 | 9.4 | 7.3 | 5.1 | 23.2 | 99 | 28.2 | 15.4 | 13.9 | 13.9 |
| 25 | 12.4 | 10.2 | 9.5 | 9.7 | 6.2 | 5.4 | 21.2 | 111 | 27.2 | 14.3 | 11.7 | 21.9 |
| 26 | 12.4 | 10.8 | 9.4 | 9.2 | 7.0 | 6.5 | 23.6 | 127 | 29.2 | 18.6 | 14.3 | 21.2 |
| 27 | 12.5 | 10.8 | 9.4 | 8.3 | 6.4 | 9.1 | 29.0 | 100 | 30.2 | 12.6 | 16.6 | 20.6 |
| 28 | 12.7 | 10.6 | 9.4 | 8.0 | 5.4 | 8.0 | 38.3 | 93 | 29.9 | 13.3 | 9.2 | 21.6 |
| 29 | 14.0 | 10.5 | 9.4 | 7.9 | 5.4 | 8.3 | 45.8 | 91 | 25.6 | 10.1 | 8.9 | 20.5 |
| 30 | 12.7 | 10.5 | 9.3 | 7.8 | — | 5.9 | 41.6 | 104 | 19.5 | 15.0 | 11.2 | 15.7 |
| 31 | 12.8 | — | 9.3 | 8.0 | — | 10.7 | — | 85 | — | 13.9 | 12.1 | — |
| **Monthly total (acre-feet)** | 744 | 630 | 612 | 576 | 430 | 341 | 1,548 | 4,285 | 2,616 | 1,058 | 793 | 843 |
| **Monthly mean ($ft^3/s$)** | 12.1 | 10.6 | 10.0 | 9.4 | 7.5 | 5.6 | 26.0 | 70 | 44.0 | 17.2 | 12.9 | 14.2 |
| **Yearly total (acre-feet)** | 14,476 | | | | | | | | | | | |

**Table 10.** Daily mean discharge of Beaver Creek at Weber-Provo Diversion Canal in Kamas, Utah

[Gaging station operated and data provided by Utah Department of Natural Resources, Division of Water Rights. Gaging station is located at (D-2-6)17dac and is site number 16 on plate 1. Discharge is in cubic feet per second ($ft^3/s$); —, no data available]

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Water year 1997 | | | | | | |
| 1 | — | 3.9 | 4.2 | 4.1 | 3.3 | 4.7 | 23.2 | 59 | 94 | 10.7 | 4.9 | — |
| 2 | — | 3.9 | 4.0 | 4.5 | 3.4 | 3.3 | 20.2 | 51 | 88 | 9.8 | 5.0 | — |
| 3 | — | 4.1 | 3.8 | 5.6 | 3.1 | 1.73 | 19.9 | 49.0 | 89 | 9.6 | 4.8 | — |
| 4 | — | 4.2 | 3.8 | 5.1 | 3.0 | 5.0 | 20.2 | 52 | 85 | 9.1 | 8.2 | — |
| 5 | — | 5.3 | 3.8 | 4.8 | 2.8 | 4.3 | 18.2 | 61 | 74 | 8.3 | 11.5 | — |
| 6 | — | 4.3 | 3.7 | 4.8 | 2.7 | 1.98 | 16.6 | 66 | 68 | 7.2 | 6.2 | — |
| 7 | — | 4.5 | 2.8 | 4.8 | 2.5 | 2.1 | 16.6 | 71 | 61 | 6.7 | 4.9 | 4.2 |
| 8 | — | 4.5 | 4.1 | 4.1 | 2.4 | 2.2 | 17.0 | 78 | 60 | 6.5 | 4.5 | 4.2 |
| 9 | — | 4.6 | 4.2 | 2.6 | 2.3 | 2.2 | 18.5 | 84 | 60 | 6.7 | 4.4 | 4.0 |
| 10 | — | 4.7 | 5.0 | 4.2 | 2.2 | 2.4 | 18.1 | 89 | 79 | 6.4 | 5.6 | 3.7 |
| 11 | — | 4.8 | 4.8 | 4.4 | 1.23 | 2.7 | 17.8 | 96 | 68 | 6.3 | 5.7 | 3.5 |
| 12 | — | 4.9 | 4.4 | 6.5 | .67 | 3.2 | 17.4 | 104 | 61 | 7.6 | 5.6 | 3.4 |
| 13 | — | 5.0 | 4.2 | 6.6 | .74 | 3.9 | 16.8 | 108 | 56 | 7.3 | 6.0 | 3.0 |
| 14 | — | 5.2 | 3.7 | 6.6 | .69 | 3.6 | 19.7 | 109 | 52 | 7.7 | 6.1 | 3.0 |
| 15 | — | 4.8 | 3.8 | 6.6 | 1.38 | 4.2 | 22.1 | 103 | 49.0 | 6.5 | 5.7 | 3.2 |
| 16 | — | 4.9 | 3.8 | 6.6 | 1.68 | 4.8 | 28.0 | 102 | 47.0 | 5.5 | 4.5 | 3.5 |
| 17 | — | 4.3 | 3.8 | 6.6 | 1.70 | 5.8 | 37.7 | 108 | 46.0 | 5.9 | 4.0 | 3.1 |
| 18 | — | 4.6 | 3.8 | 6.6 | 1.67 | 6.5 | 47.4 | 118 | 45.0 | 6.0 | 3.9 | 3.4 |
| 19 | — | 4.1 | 3.8 | 6.6 | 1.51 | 8.8 | 53 | 115 | 41.2 | 6.4 | 3.3 | 5.0 |
| 20 | — | 4.2 | 4.0 | 6.5 | 1.49 | 12.9 | 53 | 111 | 31.2 | 7.8 | 3.2 | 4.1 |
| 21 | — | 4.1 | 4.0 | 6.4 | 4.5 | 17.3 | 67 | 103 | 26.5 | 6.2 | 4.2 | 3.7 |
| 22 | — | 7.8 | 4.2 | 6.4 | 5.7 | 21.2 | 54 | 97 | 23.6 | 5.4 | 4.0 | 3.4 |
| 23 | — | 6.2 | 4.1 | 6.4 | 5.4 | 24.1 | 63 | 96 | 25.1 | 6.3 | 4.0 | 3.2 |
| 24 | — | 4.8 | 4.1 | 6.4 | 5.2 | 25.5 | 57 | 101 | 23.1 | 6.3 | 4.6 | 3.0 |
| 25 | — | 4.6 | 4.1 | 6.4 | 5.4 | 20.6 | 54 | 74 | 17.7 | 5.3 | 4.3 | 3.1 |
| 26 | — | 3.9 | 4.2 | — | 5.5 | 21.8 | 56 | 62 | 15.6 | 4.8 | 4.0 | 4.3 |
| 27 | — | 4.3 | 4.2 | — | 4.7 | 24.2 | 61 | 51 | 14.8 | 4.6 | — | 4.6 |
| 28 | 4.8 | 5.3 | 3.8 | 3.8 | 4.5 | 21.4 | 67 | 48.0 | 14.2 | 5.3 | — | 4.1 |
| 29 | 4.5 | 4.9 | 3.8 | 3.6 | — | 19.9 | 81 | 48.0 | 13.7 | 5.6 | — | 3.8 |
| 30 | 3.8 | 4.3 | 3.9 | 3.5 | — | 20.9 | 60 | 57 | 12.1 | 5.0 | — | 3.6 |
| 31 | 4.0 | — | 4.0 | 3.4 | — | 24.4 | — | 70 | — | 5.0 | — | — |
| **Monthly total (acre-feet)** | — | 280 | 246 | — | 162 | 650 | 2,224 | 5,041 | 2,858 | 412 | — | — |
| **Monthly mean ($ft^3/s$)** | — | 4.7 | 4.0 | — | 2.9 | 10.6 | 37.4 | 82 | 48.0 | 6.7 | — | — |

**Table 10.** Daily mean discharge of Beaver Creek at Weber-Provo Diversion Canal in Kamas, Utah—Continued

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Water year 1998 | | | | | | |
| 1 | 3.5 | 3.1 | 3.9 | 4.7 | 5.4 | 5.1 | 14.7 | 267 | 84 | 36.7 | 10.1 | 3.6 |
| 2 | 3.7 | 2.7 | 3.8 | 5.6 | 5.4 | 5.2 | 13.4 | 192 | 92 | 33.4 | 9.9 | 3.9 |
| 3 | 4.0 | 2.7 | 3.5 | 5.6 | 5.5 | 5.4 | 12.6 | 212 | 83 | 28.9 | 9.6 | 3.6 |
| 4 | 3.7 | 2.7 | 3.5 | 5.5 | 5.5 | 5.4 | 12.6 | 237 | 76 | 25.4 | 8.7 | 3.2 |
| 5 | 3.5 | 2.7 | 2.8 | 5.6 | 5.6 | 5.1 | 11.9 | 177 | 53 | 22.8 | 8.4 | 3.3 |
| 6 | 3.2 | 2.7 | 3.3 | 5.5 | 5.3 | 5.5 | 12.1 | 144 | 40.4 | 19.2 | 8.4 | 3.2 |
| 7 | 3.7 | 2.8 | 3.8 | 5.5 | 5.6 | 5.3 | 11.3 | 140 | 36.5 | 17.1 | 8.3 | 3.5 |
| 8 | 4.0 | 2.7 | 3.9 | 4.5 | 5.5 | 5.3 | 10.5 | 129 | 35.1 | 16.4 | 7.7 | 3.4 |
| 9 | 4.1 | 2.7 | 3.9 | 3.5 | 5.3 | 5.0 | 10.1 | 124 | 36.0 | 14.3 | 8.3 | 2.9 |
| 10 | 4.4 | 2.8 | 3.8 | 4.4 | 5.2 | 5.4 | 10.7 | 117 | 31.1 | 16.1 | 8.1 | 2.7 |
| 11 | 5.4 | 2.9 | 3.8 | 5.3 | 5.3 | 5.5 | 13.2 | 92 | 26.9 | 15.7 | 8.1 | 2.6 |
| 12 | 5.1 | 2.9 | 3.8 | 5.4 | 5.3 | 5.7 | 14.3 | 77 | 30.0 | 18.2 | 6.7 | 2.5 |
| 13 | 4.6 | 2.9 | 3.9 | 5.5 | 5.3 | 6.1 | 12.3 | 71 | 36.2 | 17.1 | 6.2 | 2.6 |
| 14 | 5.0 | 2.8 | 2.8 | 5.5 | 5.3 | 6.4 | 14.9 | 55 | 35.8 | 15.6 | 6.1 | 2.5 |
| 15 | 5.5 | 2.3 | 2.2 | 5.5 | 5.3 | 6.7 | 21.2 | 51 | 37.6 | 13.6 | 5.8 | 2.4 |
| 16 | 5.3 | 1.98 | 3.1 | 5.5 | 5.4 | 7.2 | 10.4 | 41.6 | 41.0 | 13.2 | 4.9 | 2.2 |
| 17 | 5.1 | 3.0 | 4.0 | 5.7 | 5.3 | 7.4 | 9.5 | 39.0 | 52 | 12.3 | 4.1 | 2.2 |
| 18 | 5.0 | 3.0 | 5.1 | 5.7 | 5.2 | 6.7 | 9.5 | 40.3 | 66 | 11.8 | 5.3 | 2.1 |
| 19 | 4.9 | 3.1 | 5.1 | 5.8 | 4.9 | 6.3 | 9.9 | 46.3 | 83 | 11.5 | 5.1 | 2.2 |
| 20 | 4.7 | 3.3 | 5.2 | 5.7 | 5.2 | 6.7 | 11.6 | 55 | 89 | 11.4 | 5.3 | 2.4 |
| 21 | 5.0 | 3.3 | 5.2 | 5.5 | 5.2 | 7.2 | 16.6 | 122 | 86 | 11.1 | 5.2 | 2.6 |
| 22 | 3.8 | 3.1 | 5.2 | 10.5 | 5.4 | 8.2 | — | 94 | 89 | 11.1 | 5.0 | 3.0 |
| 23 | 3.2 | 3.6 | 5.2 | 8.7 | 5.2 | 10.4 | — | 56 | 87 | 11.6 | 4.9 | 2.9 |
| 24 | 3.4 | 3.4 | 5.2 | 5.5 | 5.3 | 16.5 | — | 42.8 | 77 | 14.1 | 4.8 | 2.9 |
| 25 | 3.1 | 3.4 | 5.2 | 5.5 | 5.1 | 25.4 | — | 40.6 | 68 | 15.1 | 4.5 | 3.0 |
| 26 | 3.1 | 3.3 | 5.2 | 5.5 | 5.3 | 28.2 | — | 51 | 67 | 15.1 | 5.5 | 3.3 |
| 27 | 3.3 | 3.3 | 5.2 | 5.5 | 6.2 | 28.3 | — | 54 | 60 | 14.2 | 5.4 | 3.2 |
| 28 | 2.9 | 3.9 | 5.2 | 5.5 | 5.2 | 23.6 | — | 60 | 52 | 16.2 | 4.2 | 3.2 |
| 29 | 2.8 | 3.7 | 4.3 | 5.5 | — | 19.1 | — | 74 | 51 | 13.6 | 3.9 | 2.8 |
| 30 | 2.7 | 3.9 | 2.1 | 5.5 | — | 16.1 | — | 93 | 41.4 | 11.7 | 3.7 | 2.7 |
| 31 | 3.0 | — | 3.3 | 5.5 | — | 15.2 | — | 90 | — | 11.0 | 3.6 | — |
| **Monthly total (acre-feet)** | 247 | 180 | 252 | 346 | 297 | 626 | — | 6,116 | 3,458 | 1,022 | 388 | 171 |
| **Monthly mean ($ft^3/s$)** | 4.0 | 3.0 | 4.1 | 5.6 | 5.4 | 10.2 | — | 99 | 58 | 16.6 | 6.3 | 2.9 |

**Table 10.** Daily mean discharge of Beaver Creek at Weber-Provo Diversion Canal in Kamas, Utah—Continued

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Water year 1999 | | | | | | |
| 1 | 2.9 | 4.1 | 4.2 | 4.5 | 2.8 | 4.5 | 9.7 | 28.0 | 64 | 14.6 | 4.9 | 2.4 |
| 2 | 3.0 | 4.2 | 4.2 | 4.3 | 2.9 | 4.5 | 8.9 | 29.4 | 65 | 12.5 | 4.4 | 2.7 |
| 3 | 3.4 | 4.2 | 4.1 | 6.0 | 2.5 | 4.4 | 8.6 | 30.3 | 63 | 11.2 | 4.3 | 4.7 |
| 4 | 3.7 | 3.6 | 4.4 | 6.3 | 3.2 | 4.5 | 8.0 | 25.3 | 51 | 10.2 | 4.4 | 3.6 |
| 5 | 3.8 | 3.6 | 3.9 | 3.8 | 3.7 | 4.5 | 7.6 | 23.3 | 44.6 | 9.3 | 4.5 | 3.1 |
| 6 | 4.3 | 4.0 | 4.1 | 4.0 | 3.7 | 4.1 | 7.5 | 24.4 | 41.6 | 9.1 | 5.2 | 2.9 |
| 7 | 4.4 | 3.7 | 4.1 | 4.0 | 3.7 | 4.5 | 7.7 | 29.6 | 41.4 | 9.0 | 4.4 | 2.7 |
| 8 | 4.4 | 4.2 | 3.4 | 4.0 | 3.7 | 4.4 | 8.8 | 36.7 | 45.3 | 9.0 | 4.0 | 2.5 |
| 9 | 4.2 | 4.1 | 1.46 | 4.0 | 4.2 | 4.5 | 9.0 | 39.0 | 56 | 8.4 | 3.6 | 2.4 |
| 10 | 4.2 | 4.1 | 1.51 | 4.0 | 5.1 | 4.5 | 7.8 | 32.6 | 58 | 8.1 | 3.5 | 2.4 |
| 11 | 4.2 | 4.1 | 1.50 | 3.9 | 4.9 | 4.5 | 8.1 | 29.8 | 56 | 8.5 | 3.6 | 2.3 |
| 12 | 4.2 | 4.0 | 1.18 | 4.0 | 4.9 | 4.4 | 8.8 | 29.2 | 66 | 7.8 | 3.5 | 2.2 |
| 13 | 4.2 | 3.9 | 1.62 | 3.9 | 4.0 | 4.4 | 10.3 | 36.5 | 70 | 6.8 | 3.2 | 2.2 |
| 14 | 4.1 | 4.0 | 3.6 | 3.9 | 3.8 | 4.9 | 12.5 | 33.3 | 65 | 6.7 | 2.7 | 2.2 |
| 15 | 4.1 | 4.2 | 3.5 | 3.9 | 3.8 | 5.5 | 12.2 | 31.5 | 72 | 6.8 | 2.3 | 2.2 |
| 16 | 4.0 | 4.2 | 3.5 | 3.9 | 3.8 | 5.9 | 12.3 | 29.8 | 78 | 6.6 | 2.3 | 2.4 |
| 17 | 4.1 | 4.3 | 3.5 | 3.9 | 3.9 | 6.4 | 13.4 | 28.6 | 71 | 7.0 | 2.0 | 2.3 |
| 18 | 4.1 | 4.9 | 3.5 | 4.0 | 3.8 | 6.7 | 16.3 | 31.1 | 60 | 6.2 | 2.1 | 2.1 |
| 19 | 4.0 | 4.5 | 3.5 | 4.0 | 3.8 | 9.1 | 19.2 | 36.9 | 56 | 5.7 | 1.99 | 2.2 |
| 20 | 4.0 | 4.2 | 3.5 | 4.0 | 3.8 | 12.6 | 20.6 | 40.4 | 50 | 5.6 | 2.4 | 2.2 |
| 21 | 4.0 | 4.6 | 3.5 | 4.0 | 3.7 | 9.9 | 21.0 | 51 | 43.7 | 5.4 | 2.9 | 1.96 |
| 22 | 4.2 | 4.7 | 3.5 | 3.9 | 3.8 | 9.5 | 18.3 | 61 | 36.3 | 5.0 | 2.3 | 2.0 |
| 23 | 4.1 | 4.4 | 3.5 | 3.9 | 3.7 | 9.8 | 15.1 | 73 | 29.7 | 4.9 | 2.3 | 2.0 |
| 24 | 3.8 | 4.3 | 3.5 | 4.0 | 3.7 | 10.1 | 15.2 | 87 | 26.5 | 4.9 | 2.3 | 1.94 |
| 25 | 4.0 | 4.1 | 3.4 | 4.0 | 3.9 | 12.7 | 16.1 | 86 | 25.6 | 4.8 | 2.3 | 1.93 |
| 26 | 4.1 | 4.2 | 3.7 | 4.0 | 4.0 | 13.6 | 16.6 | 84 | 22.6 | 4.8 | 2.3 | 1.92 |
| 27 | 4.1 | 4.4 | 4.1 | 3.9 | 3.9 | 11.5 | 19.7 | 86 | 23.6 | 4.5 | 2.4 | 2.2 |
| 28 | 4.0 | 4.5 | 4.4 | 3.8 | 4.0 | 9.9 | 22.4 | 91 | 21.5 | 4.6 | 2.8 | 2.2 |
| 29 | 4.0 | 4.5 | 4.4 | 3.8 | — | 9.8 | 35.0 | 98 | 19.7 | 5.0 | 2.4 | 2.2 |
| 30 | 4.3 | 4.4 | 4.5 | 3.8 | — | 10.9 | 31.9 | 85 | 17.0 | 5.7 | 2.3 | 2.2 |
| 31 | 4.3 | — | 4.5 | 2.8 | — | 10.9 | — | 81 | — | 6.6 | 3.0 | — |
| **Monthly total (acre-feet)** | 246 | 250 | 214 | 249 | 212 | 451 | 850 | 2,994 | 2,853 | 447 | 191 | 143 |
| **Monthly mean ($ft^3/s$)** | 4.0 | 4.2 | 3.5 | 4.1 | 3.8 | 7.3 | 14.3 | 48.7 | 47.9 | 7.3 | 3.1 | 2.4 |
| **Yearly total (acre-feet)** | 9,100 | | | | | | | | | | | |

**Table 10.** Daily mean discharge of Beaver Creek at Weber-Provo Diversion Canal in Kamas, Utah—Continued

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Water year 2000 | | | | | | |
| 1 | 2.2 | 3.5 | 3.2 | 3.2 | 3.0 | 3.2 | 5.9 | 20.6 | 18.8 | 4.6 | 2.3 | 2.4 |
| 2 | 2.3 | 3.4 | 3.0 | 3.2 | 2.3 | 3.4 | 6.4 | 23.3 | 20.7 | 4.0 | 2.2 | 2.2 |
| 3 | 2.9 | 3.1 | 3.1 | 3.0 | 2.8 | 3.4 | 7.8 | 30.5 | 18.9 | 3.9 | 2.3 | 2.1 |
| 4 | 3.1 | 2.9 | 3.1 | 3.1 | 3.0 | 3.7 | 13.5 | 49.6 | 15.9 | 3.9 | 2.1 | 2.0 |
| 5 | 3.1 | 2.9 | 3.0 | 3.2 | 3.0 | 4.1 | 23.3 | 37.3 | 14.8 | 3.9 | 1.89 | 2.1 |
| 6 | 3.2 | 2.8 | 2.3 | 6.4 | 3.0 | 3.8 | 23.5 | 35.3 | 13.4 | 3.8 | 1.97 | 2.1 |
| 7 | 3.2 | 2.7 | 2.4 | 8.1 | 3.0 | 4.0 | 21.3 | 32.5 | 11.7 | 3.8 | 2.1 | 2.1 |
| 8 | 3.2 | 2.8 | 2.6 | 8.2 | 3.0 | 3.9 | 21.3 | 27.7 | 10.7 | 3.7 | 2.1 | 2.2 |
| 9 | 3.2 | 2.7 | 2.4 | 8.1 | 3.0 | 3.9 | 19.3 | 23.8 | 11.0 | 3.7 | 2.2 | 2.4 |
| 10 | 3.2 | 2.7 | 1.92 | 3.9 | 3.1 | 3.8 | 18.9 | 21.5 | 12.4 | 3.7 | 2.3 | 2.2 |
| 11 | 3.1 | 2.6 | 2.0 | 3.1 | 3.3 | 3.8 | 18.2 | 21.6 | 11.2 | 3.8 | 2.2 | 2.1 |
| 12 | 3.2 | 2.6 | 2.4 | 3.2 | 3.2 | 4.0 | 20.9 | 20.3 | 10.0 | 3.2 | 2.1 | 2.0 |
| 13 | 3.4 | 2.5 | 3.0 | 3.1 | 3.1 | 3.9 | 20.7 | 18.5 | 9.0 | 2.9 | 2.0 | 1.91 |
| 14 | 3.6 | 2.5 | 3.8 | 3.1 | 3.2 | 4.1 | 22.3 | 16.8 | 8.4 | 2.6 | 1.90 | 1.72 |
| 15 | 3.7 | 2.5 | 4.1 | 3.1 | 3.5 | 4.1 | 19.6 | 15.5 | 8.2 | 2.7 | 1.85 | 1.73 |
| 16 | 3.5 | 2.7 | 3.1 | 3.2 | 3.4 | 4.0 | 15.8 | 16.6 | 7.8 | 2.6 | 1.93 | 1.69 |
| 17 | 3.5 | 3.2 | 3.0 | 3.3 | 3.5 | 4.2 | 13.3 | 15.4 | 6.8 | 2.6 | 1.97 | 1.68 |
| 18 | 3.7 | 3.5 | 3.0 | 3.7 | 3.4 | 4.0 | 15.1 | 15.3 | 6.5 | 2.5 | 1.89 | 1.66 |
| 19 | 3.7 | 3.4 | 3.0 | 4.3 | 3.4 | 4.2 | 14.0 | 13.9 | 7.5 | 2.4 | 2.5 | 1.77 |
| 20 | 3.7 | 3.6 | 3.1 | 4.3 | 3.3 | 4.3 | 12.4 | 14.6 | 6.9 | 2.4 | 2.3 | 1.80 |
| 21 | 3.8 | 3.4 | 3.1 | 4.0 | 3.5 | 4.9 | 11.4 | 18.6 | 6.2 | 2.1 | 2.2 | 1.93 |
| 22 | 3.6 | 3.4 | 3.1 | 3.6 | 3.9 | 4.3 | 11.7 | 24.6 | 6.1 | 2.1 | 2.1 | 2.2 |
| 23 | 3.7 | 5.2 | 6.3 | 3.4 | 3.4 | 4.9 | 13.6 | 31.2 | 5.7 | 2.0 | 2.1 | 2.5 |
| 24 | 3.7 | 6.1 | 8.3 | 3.5 | 3.5 | 5.1 | 13.6 | 34.1 | 5.4 | 2.1 | 2.1 | 2.2 |
| 25 | 3.6 | 4.7 | 7.9 | 3.5 | 3.2 | 5.2 | 12.9 | 41.6 | 5.3 | 2.2 | 2.1 | 2.2 |
| 26 | 3.6 | 3.0 | 7.7 | 3.6 | 4.2 | 5.8 | 13.5 | 45.6 | 5.4 | 2.2 | 2.1 | 2.1 |
| 27 | 3.6 | 3.2 | 7.4 | 3.4 | 3.2 | 6.8 | 14.5 | 34.7 | 5.4 | 2.2 | 2.1 | 1.86 |
| 28 | 3.6 | 3.2 | 5.5 | 3.3 | 3.3 | 7.8 | 21.5 | 33.8 | 4.9 | 2.4 | 2.0 | 1.54 |
| 29 | 4.2 | 3.1 | 3.0 | 3.3 | 3.3 | 6.7 | 23.4 | 29.7 | 4.6 | 2.2 | 1.94 | 1.64 |
| 30 | 3.6 | 3.1 | 3.2 | 3.2 | — | 6.5 | 21.7 | 24.9 | 4.9 | 1.96 | 2.0 | 1.77 |
| 31 | 3.5 | — | 3.0 | 3.1 | — | 5.7 | — | 22.0 | — | 2.0 | 2.1 | — |
| **Monthly total (acre-feet)** | 209 | 192 | 230 | 243 | 186 | 281 | 975 | 1,609 | 564 | 179 | 129 | 119 |
| **Monthly mean ($ft^3/s$)** | 3.4 | 3.2 | 3.7 | 4.0 | 3.2 | 4.6 | 16.4 | 26.2 | 9.5 | 2.9 | 2.1 | 2.0 |
| **Yearly total (acre-feet)** | 4,916 | | | | | | | | | | | |

**Table 11.** Daily mean discharge of Beaver Creek diversion to Weber-Provo Diversion Canal in Kamas, Utah

[Gaging station operated and data provided by Utah Department of Natural Resources, Division of Water Rights. Gaging station is located at (D-2-6)17dac and is site number 60 on plate 1. Discharge is in cubic feet per second ($ft^3/s$); —, no data available]

| Date | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Water year 1997 | | | | | | |
| 1 | — | — | — | — | — | — | — | 47.9 | 55 | — | — | — |
| 2 | — | — | — | — | — | — | — | 45.3 | 53 | — | — | — |
| 3 | — | — | — | — | — | — | — | 42.6 | 52 | — | — | — |
| 4 | — | — | — | — | — | — | 8.7 | 44.7 | 51 | — | — | — |
| 5 | — | — | — | — | — | — | 8.8 | 49.5 | 46.3 | — | — | — |
| 6 | — | — | — | — | — | — | 8.5 | 52 | 42.1 | — | — | — |
| 7 | — | — | — | — | — | — | 10.4 | 56 | 38.1 | — | — | — |
| 8 | — | — | — | — | — | — | 11.4 | 58 | 36.6 | — | — | — |
| 9 | — | — | — | — | — | — | 7.6 | 62 | 36.5 | — | — | — |
| 10 | — | — | — | — | — | — | 3.9 | 66 | 41.5 | — | — | — |
| 11 | — | — | — | — | — | — | 3.9 | 72 | 35.5 | — | — | — |
| 12 | — | — | — | — | — | — | 3.9 | 77 | 32.5 | — | — | — |
| 13 | — | — | — | — | — | — | 3.7 | 78 | 30.5 | — | — | — |
| 14 | — | — | — | — | — | — | 4.9 | 79 | 27.0 | — | — | — |
| 15 | — | — | — | — | — | — | 13.5 | 74 | 23.4 | — | — | — |
| 16 | — | — | — | — | — | — | 25.6 | 74 | 17.4 | — | — | — |
| 17 | — | — | — | — | — | — | 32.6 | 77 | 16.3 | — | — | — |
| 18 | — | — | — | — | — | — | 41.3 | 91 | 15.2 | — | — | — |
| 19 | — | — | — | — | — | — | 45.5 | 90 | 13.3 | — | — | — |
| 20 | — | — | — | — | — | — | 45.4 | 86 | 9.9 | — | — | — |
| 21 | — | — | — | — | — | — | 47.7 | 77 | 7.8 | — | — | — |
| 22 | — | — | — | — | — | — | 45.5 | 67 | 7.0 | — | — | — |
| 23 | — | — | — | — | — | — | 45.3 | 61 | 3.6 | — | — | — |
| 24 | — | — | — | — | — | — | 44.5 | 58 | 1.09 | — | — | — |
| 25 | — | — | — | — | — | — | 42.5 | 53 | .08 | — | — | — |
| 26 | — | — | — | — | — | — | 44.7 | 46.8 | — | — | — | — |
| 27 | — | — | — | — | — | — | 48.9 | 40.6 | — | — | — | — |
| 28 | — | — | — | — | — | — | 48.9 | 38.0 | — | — | — | — |
| 29 | — | — | — | — | — | — | 52 | 37.7 | — | — | — | — |
| 30 | — | — | — | — | — | — | 49.3 | 39.8 | — | — | — | — |
| 31 | — | — | — | — | — | — | — | 45.2 | — | — | — | — |
| **Monthly total (acre-feet)** | — | — | — | — | — | — | — | 3,739 | — | — | — | — |
| **Monthly mean ($ft^3/s$)** | — | — | — | — | — | — | — | 61 | — | — | — | — |

**Table 11.** Daily mean discharge of Beaver Creek diversion to Weber-Provo Diversion Canal in Kamas, Utah—Continued

| Date | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Water year 1998 | | | | | | |
| 1 | — | — | — | — | — | — | 1.32 | 44.2 | 41.4 | 25.5 | — | — |
| 2 | — | — | — | — | — | — | .00 | 44.8 | 42.3 | 24.2 | — | — |
| 3 | — | — | — | — | — | — | .00 | 42.2 | 44.1 | 22.2 | — | — |
| 4 | — | — | — | — | — | — | .00 | 42.6 | 40.8 | 20.5 | — | — |
| 5 | — | — | — | — | — | — | .00 | 37.8 | 33.6 | 19.4 | — | — |
| 6 | — | — | — | — | — | — | .00 | 35.3 | 29.8 | 16.9 | — | — |
| 7 | — | — | — | — | — | — | .00 | 35.1 | 27.8 | 13.7 | — | — |
| 8 | — | — | — | — | — | — | .00 | 35.6 | 26.5 | 7.8 | — | — |
| 9 | — | — | — | — | — | — | .00 | 35.1 | 26.5 | 6.8 | — | — |
| 10 | — | — | — | — | — | — | .00 | 34.3 | 24.2 | 7.2 | — | — |
| 11 | — | — | — | — | — | — | .00 | 31.1 | 22.8 | 5.9 | — | — |
| 12 | — | — | — | — | — | — | .00 | 28.6 | 23.7 | 7.2 | — | — |
| 13 | — | — | — | — | — | — | .00 | 28.0 | 26.4 | 7.0 | — | — |
| 14 | — | — | — | — | — | — | .00 | 26.5 | 26.1 | 6.5 | — | — |
| 15 | — | — | — | — | — | — | .00 | 26.3 | 26.2 | 4.9 | — | — |
| 16 | — | — | — | — | — | — | .00 | 25.1 | 27.1 | 4.7 | — | — |
| 17 | — | — | — | — | — | — | .00 | 24.6 | 32.1 | 4.5 | — | — |
| 18 | — | — | — | — | — | — | .00 | 25.1 | 35.5 | 4.1 | — | — |
| 19 | — | — | — | — | — | — | .00 | 26.0 | 46.9 | 3.8 | — | — |
| 20 | — | — | — | — | — | — | .00 | 27.7 | 57 | 3.6 | — | — |
| 21 | — | — | — | — | — | — | 2.8 | 38.2 | 57 | 3.4 | — | — |
| 22 | — | — | — | — | — | — | 7.9 | 35.9 | 57 | 3.5 | — | — |
| 23 | — | — | — | — | — | .00 | 15.4 | 30.1 | 45.8 | 3.5 | — | — |
| 24 | — | — | — | — | — | .00 | 24.2 | 28.4 | 41.5 | 5.0 | — | — |
| 25 | — | — | — | — | — | 3.1 | 23.5 | 26.3 | 38.8 | — | — | — |
| 26 | — | — | — | — | — | 2.9 | 18.5 | 23.4 | 38.4 | — | — | — |
| 27 | — | — | — | — | — | 3.0 | 21.2 | 24.7 | 35.9 | — | — | — |
| 28 | — | — | — | — | — | 3.4 | 22.9 | 28.5 | 32.5 | — | — | — |
| 29 | — | — | — | — | — | 2.4 | 26.2 | 32.5 | 32.3 | — | — | — |
| 30 | — | — | — | — | — | 1.61 | 32.4 | 42.3 | 28.0 | — | — | — |
| 31 | — | — | — | — | — | 1.39 | — | 45.7 | — | — | — | — |
| **Monthly total (acre-feet)** | — | — | — | — | — | — | 389 | 2,007 | 2,119 | — | — | — |
| **Monthly mean ($ft^3/s$)** | — | — | — | — | — | — | 6.5 | 32.6 | 35.6 | — | — | — |

**Table 11.** Daily mean discharge of Beaver Creek diversion to Weber-Provo Diversion Canal in Kamas, Utah—Continued

| Date | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Water year 1999 | | | | | | |
| 1 | — | — | — | — | — | — | — | 13.0 | 43.2 | 7.2 | — | — |
| 2 | — | — | — | — | — | — | — | 13.1 | 46.9 | 7.4 | — | — |
| 3 | — | — | — | — | — | — | — | 15.1 | 51 | 3.9 | — | — |
| 4 | — | — | — | — | — | — | — | 12.5 | 48.2 | .48 | — | — |
| 5 | — | — | — | — | — | — | — | 11.5 | 46.1 | .27 | — | — |
| 6 | — | — | — | — | — | — | — | 11.5 | 44.5 | .19 | — | — |
| 7 | — | — | — | — | — | — | — | 12.9 | 44.2 | .18 | — | — |
| 8 | — | — | — | — | — | — | — | 14.6 | 45.6 | .15 | — | — |
| 9 | — | — | — | — | — | — | — | 14.4 | 48.8 | .04 | — | — |
| 10 | — | — | — | — | — | — | — | 12.2 | 49.3 | .03 | — | — |
| 11 | — | — | — | — | — | — | — | 10.6 | 46.2 | .28 | — | — |
| 12 | — | — | — | — | — | — | — | 9.8 | 47.6 | .07 | — | — |
| 13 | — | — | — | — | — | — | — | 12.3 | 48.7 | .00 | — | — |
| 14 | — | — | — | — | — | — | — | 11.1 | 46.6 | .01 | — | — |
| 15 | — | — | — | — | — | — | — | 9.4 | 47.0 | .00 | — | — |
| 16 | — | — | — | — | — | — | — | 8.3 | 44.8 | .01 | — | — |
| 17 | — | — | — | — | — | — | — | 7.9 | 35.7 | .18 | — | — |
| 18 | — | — | — | — | — | — | — | 8.0 | 28.1 | .00 | — | — |
| 19 | — | — | — | — | — | — | — | 8.7 | 26.7 | .00 | — | — |
| 20 | — | — | — | — | — | — | — | 8.9 | 24.8 | .00 | — | — |
| 21 | — | — | — | — | — | — | — | 10.0 | 23.5 | .00 | — | — |
| 22 | — | — | — | — | — | — | — | 11.0 | 20.9 | .00 | — | — |
| 23 | — | — | — | — | — | — | — | 19.2 | 15.9 | .00 | — | — |
| 24 | — | — | — | — | — | — | — | 27.3 | 11.9 | .00 | — | — |
| 25 | — | — | — | — | — | — | — | 35.1 | 9.5 | .00 | — | — |
| 26 | — | — | — | — | — | — | .90 | 38.5 | 8.9 | — | — | — |
| 27 | — | — | — | — | — | — | 1.64 | 35.9 | 10.1 | — | — | — |
| 28 | — | — | — | — | — | — | 4.5 | 38.8 | 9.0 | — | — | — |
| 29 | — | — | — | — | — | — | 12.3 | 45.7 | 8.5 | — | — | — |
| 30 | — | — | — | — | — | — | 14.3 | 47.0 | 7.6 | — | — | — |
| 31 | — | — | — | — | — | — | — | 48.4 | — | — | — | — |
| **Monthly total (acre-feet)** | — | — | — | — | — | — | — | 1,156 | 1,962 | — | — | — |
| **Monthly mean ($ft^3/s$)** | — | — | — | — | — | — | — | 18.8 | 33.0 | — | — | — |

**Table 12.** Daily mean discharge of Beaver Creek at Rocky Point near Kamas, Utah

[Gaging station operated and data provided by Utah Department of Natural Resources, Division of Water Rights. Gaging station is located at (D-2-5)1aad and is site number 36 on plate 1. Discharge is in cubic feet per second ($ft^3/s$); —, no data available]

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Water year 1999 | | | | | | |
| 1 | — | 51 | 42.1 | 32.6 | 32.2 | 58 | 49.3 | 78 | 116 | 63 | 58 | 73 |
| 2 | — | 48.8 | 42.3 | 26.3 | 35.3 | 67 | 44.5 | 78 | 127 | 70 | 52 | 74 |
| 3 | — | 47.0 | — | 22.5 | 36.3 | 82 | 42.0 | 243 | 145 | 67 | 48.9 | 88 |
| 4 | — | 45.4 | — | 21.7 | 41.0 | 77 | 39.2 | 160 | 136 | 62 | 49.1 | 81 |
| 5 | — | 48.3 | — | 22.4 | 40.3 | 52 | 37.2 | 165 | 140 | 61 | 46.2 | 71 |
| 6 | 58 | 53 | — | 23.7 | 39.4 | 46.7 | 39.1 | 130 | 130 | 65 | 48.9 | 63 |
| 7 | 51 | 51 | — | 24.7 | 39.9 | 47.3 | 37.0 | 105 | 120 | 66 | 37.7 | 58 |
| 8 | 46.0 | 52 | — | 22.3 | 44.5 | 40.5 | 44.2 | 107 | 108 | 78 | 33.4 | 58 |
| 9 | 46.4 | 49.5 | — | 22.3 | 98 | 43.0 | 47.9 | 109 | 114 | 72 | 34.8 | 54 |
| 10 | 46.1 | 48.4 | — | 25.5 | 109 | 41.8 | 45.5 | 98 | 117 | 64 | 34.5 | 51 |
| 11 | 44.7 | 48.4 | — | 28.5 | 83 | — | 42.8 | 90 | 110 | 62 | 35.4 | 45.0 |
| 12 | 45.5 | 46.2 | — | 28.5 | 60 | — | 37.8 | 86 | 119 | 61 | 33.2 | 47.3 |
| 13 | 45.3 | 46.5 | — | 27.8 | 50 | — | 36.1 | 141 | 127 | 58 | 29.7 | 44.0 |
| 14 | 45.1 | 51 | — | 25.8 | 73 | — | 40.3 | 119 | 118 | 63 | 24.6 | 45.2 |
| 15 | 46.1 | 69 | — | 27.1 | 86 | 98 | 40.0 | 110 | 127 | 78 | 22.5 | 46.0 |
| 16 | 47.4 | 67 | — | 27.9 | 65 | 202 | 38.3 | 98 | 135 | 65 | 25.2 | 45.4 |
| 17 | 48.3 | 68 | — | 28.1 | 61 | 155 | 38.4 | 85 | 136 | 68 | 21.7 | 42.6 |
| 18 | 45.5 | 52 | — | 38.2 | 59 | 141 | 47.2 | 81 | 132 | 65 | 24.1 | 38.0 |
| 19 | 47.5 | 46.2 | — | 38.2 | 49.0 | 125 | 51 | 85 | 126 | 64 | 27.9 | 45.0 |
| 20 | 46.7 | 43.2 | — | 37.1 | 36.3 | 101 | 53 | 87 | 120 | 58 | 35.8 | 47.0 |
| 21 | 47.0 | 49.1 | — | 29.7 | 23.8 | 82 | 61 | 93 | 113 | 55 | 57 | 46.2 |
| 22 | 47.5 | 52 | 26.7 | 31.1 | 35.1 | 65 | 54 | 102 | 103 | 53 | 42.3 | 46.2 |
| 23 | 46.8 | 46.0 | 26.1 | 28.5 | 33.4 | 59 | 51 | 114 | 98 | 46.7 | 49.4 | 43.8 |
| 24 | 48.5 | 39.5 | 19.8 | 34.9 | 36.4 | 54 | 62 | 131 | 95 | 46.3 | 52 | 44.4 |
| 25 | 59 | 43.3 | 23.4 | 35.8 | 43.9 | 56 | 64 | 145 | 88 | 45.6 | 54 | 41.3 |
| 26 | 60 | 45.1 | 26.1 | 29.5 | 38.2 | 54 | 80 | 151 | 87 | 42.1 | 50 | 38.4 |
| 27 | 58 | 44.6 | 26.0 | 33.8 | 35.2 | 46.9 | 100 | 141 | 81 | 41.7 | 61 | 39.8 |
| 28 | 53 | 45.9 | 26.4 | 35.0 | 46.2 | 41.3 | 101 | 129 | 83 | 43.6 | 68 | 41.6 |
| 29 | 52 | 43.9 | 34.6 | 35.9 | — | 39.8 | 148 | 132 | 79 | 44.0 | 63 | 42.5 |
| 30 | 63 | 42.4 | 38.9 | 36.4 | — | 41.5 | 100 | 135 | 70 | 57 | 65 | 40.2 |
| 31 | 58 | — | 35.0 | 38.0 | — | 44.0 | — | 131 | — | 67 | 76 | — |
| **Monthly total (acre-feet)** | — | 2,945 | 729 | 1,824 | 2,837 | — | 3,318 | 7,258 | 6,743 | 3,675 | 2,700 | 3,058 |
| **Monthly mean ($ft^3/s$)** | — | 49.5 | — | 29.7 | 51 | — | 56 | 118 | 113 | 60 | 43.9 | 51 |

**Table 12.** Daily mean discharge of Beaver Creek at Rocky Point near Kamas, Utah—Continued

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Water year 2000 | | | | | | |
| 1 | 35.5 | 35.3 | 34.9 | 28.5 | 23.2 | 37.4 | 31.1 | 54 | 73 | 33.7 | 21.8 | 42.2 |
| 2 | 35.9 | 35.1 | 33.3 | 28.0 | 26.7 | 35.5 | 32.1 | 46.2 | 78 | 33.6 | 17.9 | 44.4 |
| 3 | 38.2 | 33.8 | 32.3 | 28.0 | 30.0 | 33.6 | 35.0 | 58 | 71 | 29.6 | 17.4 | 30.4 |
| 4 | 39.1 | 32.4 | 34.5 | 28.5 | 28.5 | 33.8 | 38.9 | 55 | 73 | 26.8 | 18.2 | 27.6 |
| 5 | 39.2 | 31.5 | 34.1 | 29.5 | 28.3 | 34.6 | 47.4 | 60 | 67 | 25.8 | 19.4 | 25.2 |
| 6 | 39.2 | 32.7 | 37.1 | 31.4 | 31.5 | 34.3 | 50.0 | 70 | 61 | 27.0 | 19.1 | 25.5 |
| 7 | 42.2 | 32.2 | 39.2 | 30.5 | 32.8 | 34.2 | 44.8 | 82 | 58 | 31.5 | 18.4 | 27.3 |
| 8 | 39.8 | 32.5 | 35.5 | 30.3 | 32.1 | 33.1 | 44.9 | 93 | 53 | 35.0 | 18.4 | 29.0 |
| 9 | 40.4 | 33.6 | 36.4 | 30.8 | 39.0 | 36.9 | 46.2 | 91 | 46.1 | 32.3 | 19.8 | 33.6 |
| 10 | 38.6 | 32.8 | 36.9 | 32.7 | 44.8 | 43.2 | 45.4 | 80 | 49.1 | 33.8 | 20.4 | 30.6 |
| 11 | 37.8 | 32.4 | 36.3 | 32.7 | 60 | 41.1 | 40.1 | 110 | 46.3 | 34.2 | 17.6 | 28.1 |
| 12 | 35.2 | 32.8 | 37.0 | 31.9 | 59 | 46.9 | 39.6 | 124 | 46.3 | 28.5 | 17.0 | 27.6 |
| 13 | 35.4 | 31.8 | 34.2 | 32.5 | 46.7 | 37.1 | 39.1 | 103 | 47.7 | 25.7 | 16.9 | 27.2 |
| 14 | 34.6 | 32.0 | 36.9 | 29.7 | 95 | 35.6 | 59 | 86 | 44.3 | 27.4 | 17.0 | 23.6 |
| 15 | 35.0 | 32.6 | 36.8 | 31.8 | 84 | 40.2 | 63 | 76 | 39.4 | 32.3 | 16.5 | 20.9 |
| 16 | 32.9 | 33.2 | 37.9 | 47.5 | 51 | 39.2 | 51 | 69 | 39.9 | 34.2 | 20.1 | 21.6 |
| 17 | 33.2 | 32.8 | 39.9 | 65 | 55 | 35.9 | 44.1 | 62 | 44.2 | 32.5 | 19.6 | 21.8 |
| 18 | 33.9 | 32.9 | 38.0 | 108 | 54 | 36.2 | 46.9 | 72 | 49.9 | 30.9 | 20.3 | 22.9 |
| 19 | 34.0 | 32.2 | 38.0 | 166 | 44.0 | 36.6 | 44.8 | 74 | 58 | 32.6 | 27.3 | 23.8 |
| 20 | 35.2 | 34.3 | 37.7 | 97 | 45.9 | 32.3 | 41.3 | 74 | 54 | 29.3 | 23.1 | 24.4 |
| 21 | 34.9 | 34.3 | 36.3 | 96 | 55 | 45.3 | 39.0 | 74 | 46.9 | 29.3 | 21.0 | 30.7 |
| 22 | 33.9 | 34.7 | 35.2 | 53 | 64 | 42.4 | 38.4 | 86 | 43.8 | 29.5 | 22.5 | 38.3 |
| 23 | 34.2 | 28.8 | 33.3 | 33.3 | 44.1 | 36.8 | 50 | 91 | 48.2 | 25.5 | 26.3 | 48.9 |
| 24 | 34.1 | 29.1 | 31.5 | 35.4 | 42.5 | 32.5 | 48.3 | 97 | 47.6 | 25.2 | 27.0 | 62 |
| 25 | 31.7 | 32.9 | 31.2 | 68 | 38.2 | 30.8 | 42.6 | 117 | 37.9 | 27.4 | 24.0 | 48.0 |
| 26 | 30.7 | 40.2 | 29.3 | 62 | 37.2 | 31.1 | 42.8 | 139 | 33.4 | 25.8 | 30.4 | 37.4 |
| 27 | 30.1 | 38.0 | 29.2 | 36.8 | 46.8 | 34.1 | 46.0 | 121 | 31.4 | 24.5 | 36.3 | 33.7 |
| 28 | 30.2 | 36.3 | 28.7 | 24.4 | 48.4 | 39.6 | 54 | 103 | 29.9 | 23.1 | 26.4 | 31.0 |
| 29 | 32.2 | 37.0 | 28.8 | 23.4 | 43.0 | 35.8 | 65 | 101 | 27.3 | 23.4 | 22.1 | 29.0 |
| 30 | 33.9 | 35.5 | 28.0 | 22.3 | — | 35.6 | 64 | 96 | 29.8 | 23.4 | 27.1 | 28.2 |
| 31 | 36.4 | — | 27.8 | 23.0 | — | 31.4 | — | 78 | — | 25.1 | 37.2 | — |
| **Monthly total (acre-feet)** | 2,177 | 1,995 | 2,115 | 2,811 | 2,641 | 2,248 | 2,729 | 5,239 | 2,926 | 1,782 | 1,361 | 1,874 |
| **Monthly mean ($ft^3/s$)** | 35.4 | 33.5 | 34.4 | 22.3 | 23.2 | 30.8 | 31.1 | 46.2 | 27.3 | 23.1 | 16.5 | 20.9 |
| **Yearly total (acre-feet)** | 29,898 | | | | | | | | | | | |

**Table 13.** Summary of physical properties and chemical data available for water from selected ground-water and surface-water sites in Kamas Valley and vicinity, Utah

[Table 14, physical properties, major ions, and dissolved solids; Table 15, physical properties and nitrate; Table 16, nutrients, dissolved organic carbon, methylene blue active substances, and coliform bacteria; Table 17, trace elements and radionuclides; Table 18, pesticides and herbicides; X, data available; —, no data]

Location: See figure 1 for an explanation of the numbering system used for hydrologic-data sites in Utah.
Site ID: A unique number identifying a site in the U.S. Geological Survey database, originally based upon latitude and longitude.

| Location | Site ID | Table 14 | Table 15 | Table 16 | Table 17 | Table 18 |
|---|---|---|---|---|---|---|
| | | | Ground-water sites | | | |
| [1](A-1-7)33bab-2 | 404703111094600 | X | — | X | X | — |
| (A-1-8)36bba-1 | 404708110594001 | X | — | X | X | — |
| (D-1-5)13cdb-1 | 404346111195401 | X | — | X | X | — |
| (D-1-5)15acb-1 | 404415111215501 | X | — | X | X | — |
| (D-1-5)23dda-1 | 404253111201901 | X | — | X | X | X |
| (D-1-5)25dbb-1 | 404217111193701 | X | — | X | X | — |
| (D-1-6)15acc-1 | 404407111150001 | X | — | X | X | — |
| (D-1-6)16dbc-1 | 404356111161401 | X | — | X | X | — |
| (D-1-6)18ddb-1 | 404351111180901 | X | — | X | X | — |
| (D-1-6)19dbd-1 | 404302111181501 | X | — | X | X | — |
| (D-1-6)21cbb-1 | 404311111164501 | X | — | X | X | — |
| (D-1-6)22cbb-1 | 404310111153701 | X | — | X | X | — |
| [1](D-1-6)22dbc-1 | 404304111150001 | X | — | X | X | — |
| (D-1-6)28cbc-1 | 404212111164601 | X | — | X | X | X |
| (D-1-6)29ccc-1 | 404157111175701 | X | — | X | X | — |
| (D-1-6)32daa-1 | 404123111165101 | X | — | X | X | — |
| [1](D-1-6)33dba-2 | 404128111155701 | X | — | X | X | — |
| [1](D-1-7)6abc-1 | 404602111120801 | X | — | X | X | — |
| (D-2-5)11dcc-1 | 403922111204301 | X | — | X | X | — |
| (D-2-5)13cad-1 | 403839111194301 | X | — | X | X | — |
| (D-2-5)24ada-1 | 403802111190801 | X | — | X | X | X |
| (D-2-5)24cbb-S1 | 403755111200901 | X | — | X | X | — |
| (D-2-6)3bac-1 | 404050111151901 | X | — | X | X | — |
| [2](D-2-6)4dac-1 | 404027111155301 | X | — | X | X | — |
| (D-2-6)4dad-1 | 404024111154501 | X | — | X | — | — |
| (D-2-6)6bcc-1 | 404037111190401 | X | — | X | X | — |
| [2](D-2-6)8ddd-1 | 403920111164901 | X | — | X | X | — |
| (D-2-6)9bbb-1 | 404008111164701 | X | — | X | X | X |
| [1](D-2-6)16cda-1 | 403831111161401 | X | — | X | X | — |
| [1](D-2-6)16ddb-1 | 403833111155201 | X | — | X | X | — |
| (D-2-6)21ddb-1 | 403742111155201 | X | — | X | X | — |
| (D-2-6)23adc-S1 | 403757111133001 | — | X | — | — | — |
| (D-2-6)23ccd-1 | 403731111142101 | X | — | X | X | — |
| (D-2-6)25aad-1 | 403721111121601 | X | — | X | X | — |
| (D-2-6)25caa-1 | 403658111125001 | X | — | X | X | — |
| (D-2-6)25dba-1 | 403658111123401 | X | — | X | X | — |
| (D-2-6)26aad-1 | 403726111135401 | X | — | X | X | — |
| [2](D-2-6)26abb-1 | 403720111132401 | X | — | X | X | — |
| [1](D-2-6)26abc-1 | 403721111135001 | X | — | X | X | — |
| (D-2-6)27ccc-1 | 403639111153701 | X | — | X | X | — |

**Table 13.** Summary of physical properties and chemical data available for water from selected ground-water and surface-water sites in Kamas Valley and vicinity, Utah—Continued

| Location | Site ID | Table 14 | Table 15 | Table 16 | Table 17 | Table 18 |
|---|---|---|---|---|---|---|
| **Ground-water sites—Continued** | | | | | | |
| [1](D-2-6)27ccd-1 | 403640111152401 | X | — | X | X | — |
| (D-2-6)29ada-1 | 403713111165101 | X | — | X | X | X |
| (D-2-6)29bcb-1 | 403715111175001 | X | — | X | X | — |
| (D-2-6)33cab-1 | 403610111162901 | X | — | X | X | — |
| [2](D-2-6)34dcd-1 | 403548111144701 | X | — | X | X | X |
| [1](D-3-6)1ccd-1 | 403456111130401 | X | — | X | X | — |
| (D-3-6)2dbb-1 | 403516111135701 | X | — | X | X | — |
| [1](D-3-6)2dcd-1 | 403458111134301 | X | — | X | X | — |
| (D-3-6)4aad-1 | 403535111154101 | X | — | X | X | — |
| **Surface-water sites** | | | | | | |
| (A-1-7)27ddd | 404715111075901 | — | X | — | — | — |
| (A-1-7)31dcb | 404623111114401 | — | X | — | — | — |
| (A-1-7)33aba | 404706111091801 | — | X | — | — | — |
| (A-1-7)33baa | 404707111094301 | X | X | X | X | — |
| (A-1-7)35aaa | 10128000 | — | X | — | — | — |
| (A-1-8)25cbc | 404725110595201 | — | X | — | — | — |
| (A-1-8)25ccb | 404742110595101 | — | X | — | — | — |
| (A-1-8)26daa | 404735110595901 | X | — | X | X | — |
| (D-1-5)10bdb | 10129300 | X | — | X | X | X |
| (D-1-5)23aca | 404319111203501 | X | X | X | X | X |
| [3](D-1-6)12bdd | 404459111131901 | — | X | — | — | — |
| [4](D-1-6)12bdd | 404458111131901 | — | X | — | — | — |
| (D-1-6)15adb | 10128500 | X | X | X | X | X |
| (D-2-5)1aad | 404051111190901 | — | X | — | — | — |
| (D-2-5)13dba | 403846111192601 | — | X | — | — | — |
| (D-2-5)24cbd | 403746111200401 | — | X | — | — | — |
| (D-2-6)17dac | 403842111165901 | — | X | — | — | — |
| (D-2-6)21aaa | 403818111154201 | X | X | X | X | X |
| (D-2-6)22dca | 403742111145001 | X | X | X | X | — |
| (D-2-6)23cdd | 403731111135601 | — | X | — | — | — |
| (D-2-6)25dbb | 403700111123801 | — | X | — | — | — |
| (D-2-6)26abb | 403727111135501 | — | X | — | — | — |
| (D-2-6)26baa | 403724111135601 | — | X | — | — | — |
| (D-2-7)19cad | 403740111114801 | — | X | — | — | — |

[1]Results of chemical analysis reported by Utah Division of Drinking Water; analysis done by Chemtech-Ford Laboratory, Murray, Utah.
[2]Blank or duplicate quality assurance/quality control sample taken at site; see table 19.
[3]Weber River at South Fork.
[4]South Fork at Weber River.

Because the information in the following table is presented on facing pages, this page is left blank.

**Table 14.** Physical properties, concentration of major ions, and dissolved-solids concentration in water from selected

[µS/cm, microsiemens per centimeter at 25 degrees Celsius; mg/L, milligrams per liter; deg. C, degrees Celsius; —, no data; L, value determined in the

Location: See figure 1 for an explanation of the numbering system used for hydrologic-data sites in Utah.

| Location | Date | pH, water, whole, field (standard units) | pH, water, whole, lab (standard units) | Specific conductance, lab (µS/cm) | Specific conductance, field (µS/cm) | Temperature, water (deg. C) | Hardness, total (mg/L as $CaCO_3$) | Hardness, noncarbonate, dissolved, lab (mg/L as $CaCO_3$) | Calcium, dissolved (mg/L as Ca) | Magnesium, dissolved (mg/L as Mg) | Potassium, dissolved (mg/L as K) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Ground-water sites** | | | | | | | | | | | |
| [1](A-1-7)33bab-2 | 01-18-1978 | — | 7.7 | 270 | — | — | 172 | — | 45 | 14 | 1 |
| (A-1-8)36bba-1 | 09-21-2000 | 6.2 | 6.8 | 37 | 34 | 8.0 | 12 | — | 3.2 | .86 | .39 |
| (D-1-5)13cdb-1 | 07-27-2000 | 7.4 | 7.4 | 490 | 465 | 10.0 | 230 | — | 70 | 13 | 1.3 |
| (D-1-5)15acb-1 | 07-20-2000 | 7.2 | 7.3 | 1,080 | 1,050 | 10.5 | 400 | 4 | 110 | 31 | 8.0 |
| (D-1-5)23dda-1 | 05-30-2000 | 7.5 | 7.6 | 465 | 445 | 9.5 | 230 | 17 | 69 | 14 | 2.6 |
| (D-1-5)25dbb-1 | 09-06-2000 | 7.4 | 7.5 | 440 | 420 | 12.0 | 220 | 38 | 64 | 14 | 1.2 |
| (D-1-6)15acc-1 | 08-21-1998 | 7.5 | 8.1 | 255 | 280 | 8.5 | 210 | — | 58 | 17 | .51 |
| | 05-31-2000 | 7.5 | 7.7 | 410 | 380 | 8.0 | 210 | 9 | 57 | 16 | .44 |
| (D-1-6)16dbc-1 | 07-26-2000 | 7.1 | 7.3 | 520 | 500 | 10.0 | 250 | 26 | 70 | 17 | 1.2 |
| (D-1-6)18ddb-1 | 09-13-2000 | 7.3 | 7.4 | 600 | 570 | 9.0 | 270 | 28 | 78 | 19 | 1.9 |
| (D-1-6)19dbd-1 | 08-24-2000 | 7.3 | 7.5 | 355 | 340 | 10.5 | 170 | — | 54 | 9.0 | 1.1 |
| (D-1-6)21cbb-1 | 06-01-2000 | 7.4 | 7.5 | 485 | 465 | 10.0 | 250 | 8 | 67 | 19 | .75 |
| (D-1-6)22cbb-1 | 08-31-2000 | 7.8 | 7.8 | 300 | 290 | 8.0 | 140 | — | 41 | 9.6 | .37 |
| [1](D-1-6)22dbc-1 | 10-11-1998 | — | 7.2 | 324 | — | — | 145 | — | 31 | 16 | .9 |
| (D-1-6)28cbc-1 | 06-14-2000 | 7.6 | 7.8 | 350 | 335 | 9.5 | 180 | 5 | 53 | 11 | .49 |
| (D-1-6)29ccc-1 | 08-21-2000 | 7.7 | 7.7 | 390 | 370 | 8.5 | 190 | — | 55 | 13 | .53 |
| (D-1-6)32daa-1 | 09-11-2000 | 7.6 | 7.7 | 360 | 345 | 8.5 | 180 | 2 | 54 | 10 | .57 |
| [1](D-1-6)33dba-2 | 06-03-1992 | — | 6.7 | 642 | — | — | 274 | — | 84 | 16 | 1 |
| [1](D-1-7)6abc-1 | 09-28-1994 | — | 8.7 | 469 | — | — | 228 | — | — | — | — |
| (D-2-5)11dcc-1 | 09-28-2000 | 7.2 | 7.3 | 330 | 325 | 10.0 | 150 | 1 | 43 | 9.6 | .79 |
| (D-2-5)13cad-1 | 06-13-2000 | 7.0 | 7.2 | 280 | 260 | 8.0 | 110 | — | 32 | 7.8 | 2.2 |
| (D-2-5)24ada-1 | 05-15-2000 | 7.2 | 7.3 | 800 | 760 | 10.0 | 320 | 24 | 88 | 24 | 1.6 |
| (D-2-5)24cbb-S1 | 08-15-2000 | 7.4 | 7.6 | 780 | 740 | 11.0 | 340 | 100 | 90 | 27 | 1.8 |
| (D-2-6)3bac-1 | 11-30-1998 | 7.6 | 7.7 | 445 | 430 | 9.0 | 210 | — | 41 | 25 | 1.2 |
| | 05-18-2000 | 7.7 | 7.6 | 460 | 420 | 9.5 | 200 | — | 42 | 24 | 1.1 |
| (D-2-6)4dac-1 | 08-28-2000 | 7.4 | 7.4 | 600 | 570 | 8.5 | 270 | — | 78 | 19 | 2.6 |
| (D-2-6)4dad-1 | 09-09-1997 | 7.5 | 7.5 | 460 | 475 | 10.5 | 230 | — | 73 | 13 | .29 |
| (D-2-6)6bcc-1 | 05-24-2000 | 7.9 | 8.0 | 325 | 310 | 12.0 | 130 | — | 39 | 8.2 | 2.7 |
| (D-2-6)8ddd-1 | 08-22-2000 | 7.6 | 7.6 | 425 | 420 | 9.0 | 210 | 6 | 55 | 16 | .51 |
| (D-2-6)9bbb-1 | 05-22-2000 | 7.1 | 7.5 | 420 | 400 | 9.5 | 200 | 2 | 62 | 11 | .91 |
| [1](D-2-6)16cda-1 | 03-27-1996 | — | — | 451 | — | — | 214 | — | 62 | 16 | 1 |
| [1](D-2-6)16ddb-1 | 02-09-1991 | — | 7.5 | — | — | — | 257 | — | <1 | 17 | 1 |
| (D-2-6)21ddb-1 | 08-03-2000 | 7.3 | 7.4 | 355 | 335 | 9.5 | 150 | 1 | 48 | 8.1 | 1.2 |
| (D-2-6)23ccd-1 | 08-31-2000 | 7.3 | 7.6 | 415 | 410 | 8.0 | 200 | 6 | 50 | 18 | 1.3 |
| (D-2-6)25aad-1 | 09-27-2000 | 7.2 | 7.2 | 860 | 840 | 9.0 | 360 | 100 | 97 | 29 | 1.5 |
| (D-2-6)25caa-1 | 09-28-2000 | 7.7 | 7.6 | 315 | 305 | 7.0 | 150 | 4 | 40 | 13 | .51 |
| (D-2-6)25dba-1 | 08-29-2000 | 7.5 | 7.6 | 510 | 480 | 8.5 | 250 | 0 | 59 | 24 | .68 |
| (D-2-6)26aad-1 | 11-02-2000 | 7.5 | 7.3 | 980 | 950 | 8.5 | 440 | 210 | 102 | 46 | 1.1 |
| (D-2-6)26abb-1 | 10-03-2000 | 7.6 | 7.5 | 510 | 490 | 10.0 | 240 | 17 | 62 | 21 | .68 |
| [1](D-2-6)26abc-1 | 12-07-1992 | — | 7.2 | 358 | — | — | 173 | — | 28 | 24 | 1 |
| (D-2-6)27ccc-1 | 08-29-2000 | 7.5 | 7.5 | 420 | 410 | 8.0 | 190 | 13 | 52 | 14 | 1.4 |
| [1](D-2-6)27ccd-1 | 12-09-1988 | — | 7.6 | — | — | — | 238 | — | 88 | 4 | 1 |
| (D-2-6)29ada-1 | 08-16-2000 | 7.2 | 7.4 | 610 | 580 | 11.0 | 240 | 17 | 74 | 12 | 1.9 |
| (D-2-6)29bcb-1 | [2]06-21-2000 | 7.2 | 7.2 | 475 | — | 8.5 | 230 | 11 | 70 | 14 | .71 |
| | [3]11-28-2000 | 7.6 | 7.6 | 450 | 430 | 7.5 | 220 | — | 60 | 17 | 1 |

ground-water and surface-water sites in Kamas Valley and vicinity, Utah

laboratory; <, less than stated value]

| Date | Sodium, dissolved (mg/L as Na) | Alkalinity, water, dissolved, lab (mg/L as $CaCO_3$) | Alkalinity, water, total, field (mg/L as $CaCO_3$) | Bicarbonate, water, field (mg/L as $HCO_3$) | | Carbonate, water, field (mg/L as $CO_3$) | Chloride, dissolved (mg/L as Cl) | Fluoride, dissolved (mg/L as F) | Silica, dissolved (mg/L as $SiO_2$) | Sulfate, dissolved (mg/L as $SO_4$) | Solids, residue at 180 deg. C, dissolved (mg/L) | Solids, sum of constituents, dissolved (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Ground-water sites** | | | | | | | | | | | | |
| 01-18-1978 | 20 | 150 | — | 185 | L | 0 | 0 | 0.14 | 6 | 22 | 175 | — |
| 09-21-2000 | 1.6 | — | 13 | 16 | | 0 | .67 | <.10 | 5.2 | 3.1 | 29 | 23 |
| 07-27-2000 | 14 | 240 | 240 | 293 | | 0 | 6.4 | .13 | 31 | 12 | 294 | 295 |
| 07-20-2000 | 73 | 390 | 353 | 431 | | 0 | 80 | .30 | 29 | 71 | 656 | 614 |
| 05-30-2000 | 7.0 | 210 | 213 | 259 | | 0 | 11 | .12 | 12 | 13 | 262 | 262 |
| 09-06-2000 | 5.0 | 180 | 217 | 264 | | 0 | 6.5 | .12 | 8.6 | 13 | 253 | 221 |
| 08-21-1998 | 4.5 | 136 | — | — | | — | 3.5 | <.10 | 8.2 | 10 | — | 183 |
| 05-31-2000 | 4.5 | 200 | 199 | 243 | | 0 | — | <.10 | 8.2 | — | 227 | — |
| 07-26-2000 | 7.9 | 220 | 217 | 264 | | 0 | 17 | .13 | 15 | 20 | 299 | 287 |
| 09-13-2000 | 15 | 240 | 245 | 299 | | 0 | 21 | .19 | 33 | 21 | 365 | 350 |
| 08-24-2000 | 2.3 | 180 | 178 | 217 | | 0 | 2.0 | .21 | 12 | 7.6 | 202 | 199 |
| 06-01-2000 | 3.5 | 240 | 239 | 291 | | 0 | 5.4 | <.10 | 10 | 15 | 271 | 266 |
| 08-31-2000 | 3.4 | 150 | 150 | 183 | | 0 | 1.7 | <.10 | 5.1 | 7.8 | 160 | 158 |
| 10-11-1998 | 4.8 | 149 | — | 181 | L | <1 | 2 | 1.7 | 9.2 | 17 | 192 | — |
| 06-14-2000 | 2.4 | 170 | 157 | 191 | | 0 | 3.3 | .10 | 5.8 | 11 | 191 | 182 |
| 08-21-2000 | 2.7 | 190 | 187 | 228 | | 0 | 5.6 | <.10 | 6.5 | 9.6 | 213 | 207 |
| 09-11-2000 | 3.6 | 180 | 174 | 213 | | 0 | 4.2 | .12 | 9.2 | 7.9 | 202 | 198 |
| 06-03-1992 | 15 | 248 | — | 302 | L | <1 | 7 | .25 | 17 | 9 | 290 | — |
| 09-28-1994 | 6 | 230 | — | 281 | L | <1 | 5 | .10 | — | 26 | 257 | — |
| 09-28-2000 | 12 | 145 | 146 | 178 | | 0 | 6.9 | .14 | 37 | 16 | 213 | 216 |
| 06-13-2000 | 9.4 | 120 | 109 | 133 | | 0 | 8.5 | .11 | 35 | 8.1 | 183 | 171 |
| 05-15-2000 | 33 | 290 | 277 | 338 | | 0 | 64 | .31 | 37 | 24 | 467 | 444 |
| 08-15-2000 | 26 | 230 | 220 | 269 | | 0 | 110 | .15 | 28 | 16 | 473 | 428 |
| 11-30-1998 | 15 | 206 | — | — | | — | 16 | .19 | 19 | 6.7 | 252 | 250 |
| 05-18-2000 | 13 | 210 | 211 | 257 | | 0 | 17 | .21 | 18 | 7.0 | 254 | 251 |
| 08-28-2000 | 17 | 300 | 292 | 356 | | 0 | 16 | .27 | 51 | 9.8 | 383 | 373 |
| 09-09-1997 | 6.3 | 234 | — | — | | — | 7.6 | .12 | 21 | 12 | 284 | 274 |
| 05-24-2000 | 12 | 140 | 136 | 166 | | 0 | 14 | .10 | 41 | 6.6 | 213 | 209 |
| 08-22-2000 | 5.3 | 200 | 194 | 237 | | 0 | 13 | .10 | 9.8 | 7.7 | 234 | 228 |
| 05-22-2000 | 8.2 | 200 | 190 | 232 | | 0 | 8.9 | .22 | 16 | 10 | 242 | 234 |
| 03-27-1996 | 7 | 216 | — | 264 | L | <1 | 12 | .10 | — | 12 | 260 | — |
| 02-09-1991 | 12 | 202 | — | 246 | L | <1 | 9 | .12 | 15 | 5 | 440 | — |
| 08-03-2000 | 9.0 | 150 | 150 | 183 | | 0 | 12 | <.10 | 18 | 11 | 209 | 202 |
| 08-31-2000 | 4.0 | 190 | 192 | 234 | | 0 | 3.8 | .80 | 7.8 | 21 | 236 | 226 |
| 09-27-2000 | 33 | 260 | 256 | 312 | | 0 | 84 | <.10 | 15 | 71 | 499 | 487 |
| 09-28-2000 | 5.4 | 150 | 144 | 176 | | 0 | 6.2 | <.10 | 6.6 | 5.0 | 170 | 171 |
| 08-29-2000 | 7.0 | 240 | 244 | 297 | | 0 | 9.3 | .14 | 8.2 | 6.2 | 283 | 276 |
| 11-02-2000 | 25 | 230 | 224 | 273 | | 0 | 171 | .11 | 9.2 | 9.5 | 517 | 509 |
| 10-03-2000 | 13 | 220 | 224 | 273 | | 0 | 25 | .15 | 7.8 | 7.7 | 275 | 274 |
| 12-07-1992 | 4 | 184 | — | 224 | L | <1 | 3 | .16 | 10 | 9 | 206 | — |
| 08-29-2000 | 7.0 | 180 | 175 | 213 | | 0 | 19 | .13 | 27 | 7.4 | 249 | 235 |
| 12-09-1988 | 6 | 204 | — | 249 | L | <1 | 11 | .11 | 29 | 25 | 260 | — |
| 08-16-2000 | 35 | 220 | 212 | 258 | | 0 | 58 | .17 | 22 | 8.4 | 353 | 340 |
| 06-21-2000 | 6.1 | 220 | 203 | 248 | | 0 | 14 | .13 | 21 | 8.8 | 279 | 257 |
| 11-28-2000 | 6.7 | 220 | — | — | | — | 7.5 | .16 | 19 | 9.8 | 258 | 257 |

**Table 14.** Physical properties, concentration of major ions, and dissolved-solids concentration in water from selected

| Location | Date | pH, water, whole, field (standard units) | pH, water, whole, lab (standard units) | Specific conductance, lab (µS/cm) | Specific conductance, field (µS/cm) | Temperature, water (deg. C) | Hardness, total (mg/L as $CaCO_3$) | Hardness, noncarbonate, dissolved, lab (mg/L as $CaCO_3$) | Calcium, dissolved (mg/L as Ca) | Magnesium, dissolved (mg/L as Mg) | Potassium, dissolved (mg/L as K) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Ground-water sites—Continued** | | | | | | | | | | | |
| (D-2-6)33cab-1 | 09-12-2000 | 6.7 | 7.0 | 225 | 205 | 9.0 | 100 | 10 | 29 | 7.6 | .70 |
| (D-2-6)34dcd-1 | 07-25-2000 | 7.0 | 6.9 | 395 | 385 | 10.0 | 170 | 34 | 52 | 10 | 1.3 |
| [1](D-3-6)1ccd-1 | 05-15-1996 | — | — | 410 | — | — | 200 | — | 50 | 14 | 1 |
| (D-3-6)2dbb-1 | 09-07-2000 | 6.9 | 7.0 | 290 | 280 | 10.0 | 140 | 14 | 43 | 7.3 | 1.0 |
| [1](D-3-6)2dcd-1 | 12-27-1994 | — | — | — | — | — | — | — | — | — | — |
| (D-3-6)4aad-1 | 08-21-2000 | 6.7 | 6.8 | 195 | 185 | 10.5 | 85 | 4 | 24 | 5.8 | .88 |
| **Surface-water sites** | | | | | | | | | | | |
| (A-1-7)33baa | 08-14-2000 | 8.3 | 8.1 | 205 | 190 | 14.0 | — | — | — | — | — |
| (A-1-8)26daa | 09-21-2000 | 8.2 | 7.3 | 98 | 91 | 9.0 | 42 | 1 | 12 | 3.0 | .47 |
| (D-1-5)10bdb | 08-14-2000 | 8.3 | 8.4 | 365 | 335 | 20.5 | 180 | 5 | 51 | 13 | 1.5 |
| (D-1-5)23aca | 09-01-2000 | 7.8 | 7.9 | 465 | 440 | 12.0 | 220 | — | 62 | 15 | 1.7 |
| (D-1-6)15adb | 08-11-2000 | 8.7 | 8.1 | 245 | 240 | 17.0 | 120 | 9 | 34 | 9.1 | .33 |
| (D-2-6)21aaa | 03-12-2000 | 8.6 | 8.5 | 415 | 420 | 10.0 | 180 | — | 47 | 16 | .72 |
| | 08-11-2000 | 8.6 | 8.3 | 340 | 340 | 16.0 | 170 | 12 | 45 | 14 | .93 |
| (D-2-6)22dca | 09-07-2000 | 8.4 | 8.3 | 335 | 330 | 13.0 | 160 | — | 42 | 14 | .64 |

[1]Results of chemical analysis reported by Utah Division of Drinking Water; analysis done by Chemtech-Ford Laboratory, Murray, Utah.
[2]Depth of well 84 feet; water sample from alluvium.
[3]Depth of well deepened to 290 feet; water sample from alluvium and volcanic rock.

ground-water and surface-water sites in Kamas Valley and vicinity, Utah—Continued

| Date | Sodium, dissolved (mg/L as Na) | Alkalinity, water, dissolved, lab (mg/L as $CaCO_3$) | Alkalinity, water, total, field (mg/L as $CaCO_3$) | Bicarbonate, water, field (mg/L as $HCO_3$) | Carbonate, water, field (mg/L as $CO_3$) | Chloride, dissolved (mg/L as Cl) | Fluoride, dissolved (mg/L as F) | Silica, dissolved (mg/L as $SiO_2$) | Sulfate, dissolved (mg/L as $SO_4$) | Solids, residue at 180 deg. C, dissolved (mg/L) | Solids, sum of constituents, dissolved (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Ground-water sites—Continued** | | | | | | | | | | | |
| 09-12-2000 | 4.4 | 95 | 96 | 117 | 0 | 6.0 | .77 | 26 | 6.1 | 137 | 141 |
| 07-25-2000 | 7.0 | 140 | 142 | 173 | 0 | 29 | .21 | 36 | 9.5 | 253 | 238 |
| 05-15-1996 | 8 | 180 | — | 221 | L <1 | 16 | .10 | 10 | 10 | 226 | — |
| 09-07-2000 | 3.7 | 120 | 121 | 147 | 0 | 11 | .11 | 29 | 5.3 | 188 | 178 |
| 12-27-1994 | 9 | — | — | — | — | — | .10 | — | 9 | 218 | — |
| 08-21-2000 | 3.4 | 81 | 79 | 97 | 0 | 6.4 | .13 | 22 | 6.2 | 124 | 119 |
| **Surface-water sites** | | | | | | | | | | | |
| 08-14-2000 | — | — | — | — | — | — | — | — | — | — | — |
| 09-21-2000 | 1.8 | 41 | 41 | 51 | 0 | .75 | <.10 | 4.4 | 6.8 | 58 | 54 |
| 08-14-2000 | 7.3 | — | 176 | 214 | — | 7.9 | .16 | 12 | 9.4 | 208 | 208 |
| 09-01-2000 | 7.8 | 230 | 224 | 273 | 0 | 5.1 | .18 | 15 | 11 | 259 | 254 |
| 08-11-2000 | 1.9 | — | 115 | 140 | — | 1.7 | .11 | 3.9 | 8.3 | 131 | 129 |
| 03-12-2000 | 11 | — | — | — | — | 25 | .24 | 6.8 | 8.1 | 222 | — |
| 08-11-2000 | 5.4 | — | 158 | 193 | — | 7.4 | .20 | 6.4 | 5.7 | 186 | 181 |
| 09-07-2000 | 4.2 | 170 | 165 | 202 | <1 | 5.6 | .18 | 6.4 | 6.0 | 191 | 180 |

**Table 15**. Physical properties and nitrate concentration in water from selected ground-water and surface-water sites in Kamas Valley and vicinity, Utah

[deg. C, degrees Celsius; µS/cm, microsiemens per centimeter at 25 degrees Celsius; mg/L, milligrams per liter; —, no data]

Location: See figure 1 for an explanation of the numbering system used for hydrologic-data sites in Utah.
Nitrate (as $NO_3$) determined photometrically by Chemetrics cadmium reduction method.
Nitrate (as N) calculated from nitrate (as $NO_3$).

| Location | Site description | Date | Time | Temperature, water (deg. C) | pH (standard units) | Specific conductance (µS/cm) | Nitrate (mg/L as $NO_3$) | Nitrate (mg/L as N) |
|---|---|---|---|---|---|---|---|---|
| | | | **Ground-water site** | | | | | |
| (D-2-6)23adc-S1 | Left Fork spring | 10-27-1999 | 1215 | 7.0 | 7.5 | 395 | 3.0 | 0.68 |
| | | | **Surface-water sites** | | | | | |
| | | | **Weber River** | | | | | |
| (A-1-7)27ddd | Weber River above Smith and Morehouse | 10-26-1999 | 1350 | 5.0 | 8.4 | 275 | 2.0 | 0.45 |
| (A-1-7)31dcb | Weber River at Weber Canyon Road | 10-26-1999 | 1430 | 7.0 | 8.5 | 360 | 2.5 | .56 |
| (A-1-7)33aba | Smith and Morehouse Creek at Weber River | 10-26-1999 | 1415 | 5.5 | 8.4 | 305 | 1.0 | .23 |
| (A-1-7)33baa | Weber River below Smith and Morehouse | 10-26-1999 | 1405 | 6.0 | 8.4 | 290 | 1.5 | .34 |
| (A-1-7)35aaa | Smith and Morehouse Creek below reservoir | 10-26-1999 | 1335 | 8.0 | 8.4 | 280 | 1.0 | .23 |
| (A-1-8)25cbc | Weber River at Dry Fork | 10-26-1999 | 1240 | 5.0 | 7.7 | 160 | 2.0 | .45 |
| (A-1-8)25ccb | Holiday Park spring at junction with Weber River | 10-26-1999 | 1300 | 8.0 | — | 430 | 2.0 | .45 |
| (D-1-6)12bdd | Weber River at South Fork | 10-26-1999 | 1450 | 7.0 | 8.5 | 295 | 1.5 | .34 |
| (D-1-6)12bdd | South Fork at Weber River | 10-26-1999 | 1455 | 7.0 | 8.6 | 315 | 1.0 | .23 |
| (D-1-6)15adb | Weber River near Oakley | 10-26-1999 | 1515 | 6.5 | 8.6 | 305 | 1.5 | .34 |
| | | | **Kamas Valley** | | | | | |
| (D-1-5)23aca | Marchant ditch | 10-27-1999 | 1515 | 12.0 | 8.0 | 465 | 2.5 | .56 |
| (D-2-5)1aad | Beaver Creek at Rocky Point | 10-27-1999 | 1600 | 11.0 | 8.7 | 385 | 3.0 | .68 |
| (D-2-5)13dba | Indian Hollow | 10-27-1999 | 1415 | 7.5 | 8.1 | 295 | 1.5 | .34 |
| (D-2-5)24cbd | City Creek | 10-27-1999 | 1400 | 10.0 | 8.6 | 640 | 1.0 | .23 |
| (D-2-6)17dac | Beaver Creek at Weber-Provo Diversion Canal | 10-27-1999 | 1315 | 8.0 | 8.5 | 325 | 1.5 | .34 |
| | | | **Beaver Creek** | | | | | |
| (D-2-6)21aaa | Beaver Creek at Grist Mill | 10-27-1999 | 1240 | 9.0 | 8.6 | 320 | 2.0 | .45 |
| (D-2-6)22dca | Beaver Creek at Lind Bridge | 10-27-1999 | 1250 | 9.0 | 8.5 | 310 | 2.5 | .56 |
| (D-2-6)23cdd | Inflow from Left-Hand Canyon below Samak Road | 10-27-1999 | 1155 | 9.5 | 8.0 | 400 | 2.5 | .56 |
| (D-2-6)25dbb | Beaver Creek 1 mile above Samak fish hatchery | 10-27-1999 | 1120 | 3.0 | 7.9 | 94 | 2.0 | .45 |
| (D-2-6)26abb | Beaver Creek below Samak fish hatchery | 10-27-1999 | 1145 | 8.0 | 7.7 | 285 | 2.5 | .56 |
| (D-2-6)26baa | Inflow from Willow Springs | 10-27-1999 | 1035 | 10.0 | 8.2 | 440 | 2.0 | .45 |
| (D-2-7)19cad | Beaver Creek 2 miles above Samak fish hatchery | 10-27-1999 | 1100 | 3.0 | 7.6 | 82 | 1.5 | .34 |

**Table 16.** Concentration of nutrients, dissolved organic carbon, methylene blue active substances, and coliform bacteria in water from selected ground-water and surface-water sites in Kamas Valley and vicinity, Utah

[mg/L, milligrams per liter; mL, milliliter; <, less than stated value; E, estimated value; —, no data; ND, not detected]

Location: See figure 1 for an explanation of the numbering system used for hydrologic-data sites in Utah.
Total and fecal coliform analyses done by Utah State Health Laboratory, Salt Lake City, Utah.

| Location | Date | Nitrogen, ammonia, dissolved (mg/L as N) | Nitrogen, ammonia+ organic, dissolved (mg/L as N) | Nitrogen, $NO_2$+$NO_3$, dissolved (mg/L as N) | Nitrogen, nitrite, dissolved (mg/L as N) | Phosphate, ortho, dissolved (mg/L as $PO_4$) | Phosphorus, dissolved (mg/L as P) | Phosphorus, ortho, dissolved (mg/L as P) | Carbon, organic, dissolved (mg/L as C) | Methylene blue active substances (mg/L) | Coliform, total, counts per 100 mL | Coliform, fecal, counts per 100 mL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Ground-water sites** | | | | | | | | | | | | |
| [1](A-1-7)33bab-2 | 01-18-1978 | — | — | 0.80 | 0 | — | — | — | — | 0 | — | — |
| (A-1-8)36bba-1 | 09-21-2000 | <.020 | <.10 | .082 | <.010 | — | <.050 | <.010 | 1.2 | <.02 | <2 | <2 |
| (D-1-5)13cdb-1 | 07-27-2000 | <.020 | <.10 | .747 | <.010 | .11 | .039 E | .035 | .62 | <.02 | — | <2 |
| (D-1-5)15acb-1 | 07-20-2000 | <.020 | .25 | .283 | <.010 | .10 | .051 | .032 | 4.3 | <.02 | <2 | <2 |
| (D-1-5)23dda-1 | 05-30-2000 | <.020 | <.10 | 1.43 | <.010 | .10 | .030 E | .034 | 1.1 | <.02 | <4 | <2 |
| (D-1-5)25dbb-1 | 09-06-2000 | <.020 | .10 E | .195 | <.010 | — | <.050 | <.010 | 1.1 | <.02 | <10 | <4 |
| (D-1-6)15acc-1 | 05-31-2000 | <.020 | <.10 | .198 | <.010 | — | <.050 | <.010 | .61 | <.02 | <4 | <2 |
| (D-1-6)16dbc-1 | 07-26-2000 | <.020 | <.10 | 2.07 | <.010 | .10 | .036 E | .032 | .91 | <.02 | <2 | <2 |
| (D-1-6)18ddb-1 | 09-13-2000 | <.020 | .10 E | 3.24 | <.010 | .11 | .030 E | .035 | .95 | <.02 | <10 | <4 |
| (D-1-6)19dbd-1 | 08-24-2000 | <.020 | .10 E | .193 | <.010 | .17 | .060 | .056 | .94 | <.02 | <10 | <10 |
| (D-1-6)21cbb-1 | 06-01-2000 | <.020 | .15 | .590 | <.010 | .04 | <.050 | .012 | .37 | <.02 | <4 | <2 |
| (D-1-6)22cbb-1 | 08-31-2000 | <.020 | <.10 | .065 | <.010 | .05 | <.050 | .015 | .63 | <.02 | <4 | <2 |
| [1](D-1-6)22dbc-1 | 10-11-1998 | <.2 | — | <..1 | <.005 | — | — | <.01 | — | <.05 | ND | ND |
| (D-1-6)28cbc-1 | 06-14-2000 | <.020 | .10 E | .113 | <.010 | — | <.050 | <.010 | .61 | <.02 | <4 | <2 |
| (D-1-6)29ccc-1 | 08-21-2000 | <.020 | <.10 | .299 | <.010 | — | <.050 | <.010 | .35 | <.02 | <10 | <4 |
| (D-1-6)32daa-1 | 09-11-2000 | <.020 | <.10 | .478 | <.010 | .04 | <.050 | .014 | .51 | <.02 | <10 | <4 |
| [1](D-1-6)33dba-2 | 06-03-1992 | <.1 | — | 1.19 | .02 | — | — | .81 | — | <.4 | — | — |
| [1](D-1-7)6abc-1 | 09-28-1994 | — | — | .39 | <.39 | — | — | <.02 | — | — | — | — |
| (D-2-5)11dcc-1 | 09-28-2000 | <.020 | <.10 | .509 | <.010 | .15 | .042 E | .048 | .55 | <.02 | <2 | <2 |
| (D-2-5)13cad-1 | 06-13-2000 | <.020 | .10 E | .281 | <.010 | .24 | .089 | .079 | 1.2 | <.02 | <4 | <2 |
| (D-2-5)24ada-1 | 05-15-2000 | <.020 | .10 E | 1.21 | <.010 | .25 | .101 | .081 | 1.4 | <.02 | <2 | <2 |
| (D-2-5)24cbb-S1 | 08-15-2000 | .002 | .058 | .435 | 0 | — | .015 | .021 | — | — | <10 | <4 |
| (D-2-6)3bac-1 | 11-30-1998 | — | — | .391 | — | — | — | <.010 | — | — | — | — |
| | 05-18-2000 | <.020 | <.10 | .458 | <.010 | — | <.050 | <.010 | .33 E | <.02 | <4 | <2 |
| (D-2-6)4dac-1 | 08-28-2000 | <.020 | <.10 | .158 | <.010 | .08 | .030 E | .027 | .36 | <.02 | <10 | <50 |
| (D-2-6)4dad-1 | 09-09-1997 | — | — | .124 | — | .06 | — | .020 | — | — | — | — |
| (D-2-6)6bcc-1 | 05-24-2000 | <.020 | <.10 | .726 | <.010 | .10 | .034 E | .033 | .32 E | <.02 | <4 | <2 |
| (D-2-6)8ddd-1 | 08-22-2000 | <.020 | <.10 | .680 | <.010 | — | <.050 | <.010 | .42 | <.02 | <10 | <4 |
| (D-2-6)9bbb-1 | 05-22-2000 | <.020 | <.10 | .705 | <.010 | .10 | .034 E | .034 | .45 | <.02 | <4 | <2 |
| [1](D-2-6)16cda-1 | 03-27-1996 | — | — | .72 | <.01 | — | — | .03 | — | — | — | — |
| [1](D-2-6)16ddb-1 | 02-09-1991 | .1 | — | .49 | <.02 | — | — | .05 | — | — | — | — |
| (D-2-6)21ddb-1 | 08-03-2000 | <.020 | <.10 | 1.30 | <.010 | .27 | .103 | .089 | .52 | <.02 | <10 | <4 |
| (D-2-6)23ccd-1 | 08-31-2000 | .054 | .10 E | <.050 | .010 | — | <.050 | <.010 | .26 E | — | <10 | <2 |
| (D-2-6)25aad-1 | 09-27-2000 | .374 | .39 | .113 | <.010 | — | <.050 | <.010 | .28 E | <.02 | <2 | <2 |
| (D-2-6)25caa-1 | 09-28-2000 | <.020 | <.10 | 1.13 | <.010 | — | <.050 | <.010 | .76 | <.02 | <2 | <2 |
| (D-2-6)25dba-1 | 08-29-2000 | <.020 | <.10 | 3.43 | <.010 | .03 | <.050 | .011 | .55 | <.02 | <2 | <2 |
| (D-2-6)26aad-1 | 11-02-2000 | <.041 | <.10 | 1.67 | <.006 | — | <.060 | <.018 | .38 | <.02 | — | <2 |
| (D-2-6)26abb-1 | 10-03-2000 | <.020 | <.10 | .390 | <.010 | — | <.060 | <.010 | .46 | <.02 | <2 | <2 |
| [1](D-2-6)26abc-1 | 12-07-1992 | <.1 | — | .47 | <.01 | — | — | <.1 | — | <.4 | — | — |
| (D-2-6)27ccc-1 | 08-29-2000 | .229 | <.10 | <.050 | <.010 | .37 | .063 | .120 | .65 | <.02 | <2 | <2 |

**Table 16.** Concentration of nutrients, dissolved organic carbon, methylene blue active substances, and coliform bacteria in water from selected ground-water and surface-water sites in Kamas Valley and vicinity, Utah—Continued

| Location | Date | Nitrogen, ammonia, dissolved (mg/L as N) | Nitrogen, ammonia+organic, dissolved (mg/L as N) | Nitrogen, $NO_2+NO_3$, dissolved (mg/L as N) | Nitrogen, nitrite, dissolved (mg/L as N) | Phosphate, ortho, dissolved (mg/L as $PO_4$) | Phosphorus, dissolved (mg/L as P) | Phosphorus, ortho, dissolved (mg/L as P) | Carbon, organic, dissolved (mg/L as C) | Methylene blue active substances (mg/L) | Coliform, total, counts per 100 mL | Coliform, fecal, counts per 100 mL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Ground-water sites—Continued** | | | | | | | | | | | | |
| [1](D-2-6)27ccd-1 | 12-09-1988 | <.1 | — | 2.35 | <.02 | — | — | <.04 | — | — | — | — |
| (D-2-6)29ada-1 | 08-16-2000 | .012 | .162 | .021 | .001 | — | .009 | .019 | 2.2 | <.02 | <10 | <4 |
| (D-2-6)29bcb-1 | [2]06-21-2000 | <.020 | .10 | .145 | <.010 | .04 | <.050 | .014 | 1.6 | <.02 | — | — |
| | [3]11-28-2000 | <.041 | <.10 | .51 | .003 | — | <.06 | .014 | — | — | <2 | <2 |
| (D-2-6)33cab-1 | 09-12-2000 | <.020 | <.10 | .748 | <.010 | .06 | <.050 | .018 | .38 | <.02 | <10 | <4 |
| (D-2-6)34dcd-1 | 07-25-2000 | <.020 | .10 E | 1.55 | <.010 | .17 | .052 | .057 | .63 | <.02 | <1 | <4 |
| [1](D-3-6)1ccd-1 | 05-15-1996 | <.4 | — | .48 | <.01 | — | — | .03 | — | — | — | — |
| (D-3-6)2dbb-1 | 09-07-2000 | <.020 | <.10 | .937 | <.010 | .12 | .051 | .038 | .58 | <.02 | <10 | <4 |
| [1](D-3-6)2dcd-1 | 12-27-1994 | — | — | 1.30 | <.01 | — | — | — | — | — | — | — |
| (D-3-6)4aad-1 | 08-21-2000 | <.020 | <.10 | .544 | <.010 | .10 | .035 E | .032 | .63 | <.02 | <10 | <4 |
| **Surface-water sites** | | | | | | | | | | | | |
| (A-1-7)33baa | 08-14-2000 | <.020 | .10 E | <.050 | <.010 | — | .028 | <.010 | — | — | — | — |
| (A-1-8)26daa | 09-21-2000 | <.020 | .10 E | <.050 | <.010 | — | <.050 | <.010 | 1.5 | <.02 | 40 | 32 |
| (D-1-5)10bdb | 08-14-2000 | <.020 | .19 | <.050 | <.010 | .04 | .025 | .014 | 2.4 | — | — | — |
| (D-1-5)23aca | 09-01-2000 | <.020 | .15 | .366 | <.010 | .09 | .038 E | .028 | 1.6 | <.02 | 268 | 42 |
| (D-1-6)15adb | 08-11-2000 | <.020 | .11 | <.050 | <.010 | — | .003 E | <.010 | 2.2 | — | — | — |
| (D-2-6)21aaa | 03-12-2000 | <.020 | .10 E | .277 | <.010 | .04 | .007 | .013 | 1.2 | — | — | — |
| | 08-11-2000 | .029 | .16 | .171 | <.010 | — | .010 | <.010 | 2.2 | — | — | — |
| (D-2-6)22dca | 09-07-2000 | <.020 | .13 | .291 | .012 | .03 | <.050 | .010 | 1.6 | <.02 | 640 | 16 |

[1]Results of chemical analysis reported by Utah Division of Drinking Water; analysis done by Chemtech-Ford Laboratory, Murray, Utah.
[2]Depth of well 84 feet; water sample from alluvium.
[3]Depth of well deepened to 290 feet; water sample from alluvium and volcanic rock.

Because the information in the following table is presented on facing pages, this page is left blank.

**Table 17**. Concentration of trace elements and radionuclides in water from selected ground-water and surface-water sites in Kamas

[µg/L, micrograms per liter; mg/L, milligrams per liter; pCi/L, picoCuries per liter; E, estimated value; —, no data; <, less than reported value; T, total concentration]

Location: See figure 1 for an explanation of the numbering system used for hydrologic-data sites in Utah.

| Location | Date | Aluminum, dissolved, (µg/L as Al) | Arsenic, dissolved (µg/L as As) | Barium, dissolved (µg/L as Ba) | Boron, dissolved (µg/L as B) | Bromide, dissolved (mg/L as Br) | Cadmium, dissolved (µg/L as Cd) | Chromium, dissolved (µg/L as Cr) | Copper, dissolved (µg/L as Cu) |
|---|---|---|---|---|---|---|---|---|---|
| **Ground-water sites** | | | | | | | | | |
| [1](A-1-7)33bab-2 | 01-18-1978 | — | 0 | 90 | 120 | — | 0 | 0 | 3.0 |
| (A-1-8)36bba-1 | 09-21-2000 | — | — | — | <16 | <.010 | — | — | — |
| (D-1-5)13cdb-1 | 07-27-2000 | — | — | — | 32 | .032 | — | — | — |
| (D-1-5)15acb-1 | 07-20-2000 | 12 | 5 | 294 | 226 | .093 | <1.0 | <.80 | 4.9 |
| (D-1-5)23dda-1 | 05-30-2000 | 13 | 1 | 109 | 8.9 E | <.010 | <1.0 | <.80 | 5.2 |
| (D-1-5)25dbb-1 | 09-06-2000 | — | <.9 | — | 20 | .024 | — | — | — |
| (D-1-6)15acc-1 | 05-31-2000 | 11 | 1 E | 73 | 12 E | .020 | <1.0 | <.80 | <1.0 |
| (D-1-6)16dbc-1 | 07-26-2000 | 5.6 | 1 | 135 | 25 | .022 | <1.0 | <.80 | 2.5 |
| (D-1-6)18ddb-1 | 09-13-2000 | — | — | — | 45 | .045 | — | — | — |
| (D-1-6)19dbd-1 | 08-24-2000 | — | — | — | 14 E | .016 | — | — | — |
| (D-1-6)21cbb-1 | 06-01-2000 | — | — | — | 24 | .025 | — | — | — |
| (D-1-6)22cbb-1 | 08-31-2000 | — | — | — | <16 | .018 | — | — | — |
| [1](D-1-6)22dbc-1 | 10-11-1998 | <30 | <5.0 T | 90 T | <50 T | — | <1.0 T | <5.0 T | <10.0 T |
| (D-1-6)28cbc-1 | 06-14-2000 | 13 | 7 | 100 | 8.2 E | .011 | 1.7 | <.80 | 7.5 |
| (D-1-6)29ccc-1 | 08-21-2000 | — | — | — | 10 E | .036 | — | — | — |
| (D-1-6)32daa-1 | 09-11-2000 | — | — | — | 12 E | .010 | — | — | — |
| [1](D-1-6)33dba-2 | 06-03-1992 | — | <5.0 T | <20 T | <.1 | — | <3.0 T | <10.0 T | <30.0 T |
| [1](D-1-7)6abc-1 | 09-28-1994 | — | 6.2 T | 90 T | — | — | <1.0 T | <7.0 T | <10.0 T |
| (D-2-5)11dcc-1 | 09-28-2000 | — | .88 | — | 15 | .027 | — | — | — |
| (D-2-5)13cad-1 | 06-13-2000 | 7.6 | 1 E | 44 | 20 | .018 | <1.0 | <.80 | 7.1 |
| (D-2-5)24ada-1 | 05-15-2000 | — | 4 | — | 47 | .090 | — | — | — |
| (D-2-5)24cbb-S1 | 08-15-2000 | — | 2 | — | 31 | .080 | — | — | — |
| (D-2-6)3bac-1 | 05-18-2000 | — | — | — | 37 | .062 | — | — | — |
| (D-2-6)4dac-1 | 08-28-2000 | <1.0 | 3 | 180 | 32 | .050 | <1.0 | <.80 | <1.0 |
| (D-2-6)6bcc-1 | 05-24-2000 | 13 | 1 | 53 | 22 | .040 | <1.0 | <.80 | <1.0 |
| (D-2-6)8ddd-1 | 08-22-2000 | — | — | — | 17 | .053 | — | — | — |
| (D-2-6)9bbb-1 | 05-22-2000 | 13 | 1 E | 72 | 27 | .046 | <1.0 | .51 E | 2.1 |
| [1](D-2-6)16cda-1 | 03-27-1996 | — | <5.0 T | 50 T | — | — | <1.0 T | 1.0 T | 8.0 T |
| [1](D-2-6)16ddb-1 | 02-09-1991 | — | <3.0 T | 40 T | <500 | — | <5.0 T | <50 T | <60 T |
| (D-2-6)21ddb-1 | 08-03-2000 | 22 | 2 | 62 | 34 | .045 | <1.0 | <.80 | 22 |
| (D-2-6)23ccd-1 | 08-31-2000 | — | — | — | 46 | .044 | — | — | — |
| (D-2-6)25aad-1 | 09-27-2000 | — | — | — | 48 | .070 | — | — | — |
| (D-2-6)25caa-1 | 09-28-2000 | — | — | — | 7.6 E | .022 | — | — | — |
| (D-2-6)25dba-1 | 08-29-2000 | — | — | — | 14 E | .031 | — | — | — |
| (D-2-6)26aad-1 | 11-02-2000 | — | — | — | 21 | .041 | — | — | — |
| (D-2-6)26abb-1 | 10-03-2000 | — | — | — | 11 E | .023 | — | — | — |
| [1](D-2-6)26abc-1 | 12-07-1992 | — | 4.0 T | <80 T | — | — | <4 T | <30 T | <30 T |
| (D-2-6)27ccc-1 | 08-29-2000 | — | — | — | 16 | .017 | — | <.80 | — |
| [1](D-2-6)27ccd-1 | 12-09-1988 | — | <1.0 T | 90 T | — | — | <1.0 T | <1.0 T | <10.0 T |
| (D-2-6)29ada-1 | 08-16-2000 | — | — | — | 32 | .018 | — | — | — |
| (D-2-6)29bcb-1 | [2]06-21-2000 | 5.2 | 1 | 108 | 24 | .012 | <1.0 | <.80 | 1.1 |
| | [3]11-28-2000 | — | .76 | — | 17 | .029 | — | — | — |
| (D-2-6)33cab-1 | 09-12-2000 | — | — | — | 21 | <.010 | — | — | — |
| (D-2-6)34dcd-1 | 07-25-2000 | 11 | 1 E | 111 | 18 | .029 | <1.0 | .89 | 1.1 |
| [1](D-3-6)1ccd-1 | 05-15-1996 | — | <5.0 T | 50 T | — | — | <1.0 T | <5.0 T | <10.0 T |
| (D-3-6)2dbb-1 | 09-07-2000 | — | — | — | 27 | .024 | — | — | — |
| [1](D-3-6)2dcd-1 | 12-27-1994 | — | <5.0 T | <100 T | — | — | <1.0 T | <7.0 T | 89 T |
| (D-3-6)4aad-1 | 08-21-2000 | — | — | — | 11 E | .027 | — | — | — |
| **Surface-water sites** | | | | | | | | | |
| (A-1-7)33baa | 08-14-2000 | 8.0 | 0.47 E | 64 | 7.7 E | — | <1.0 | <.80 | <1.0 |
| (A-1-8)26daa | 09-21-2000 | — | — | — | <16 | <.010 | — | — | — |
| (D-1-5)10bdb | 08-14-2000 | <1.0 | 1 | 85 | 21 | — | <1.0 | <.80 | <1.0 |
| (D-1-5)23aca | 09-01-2000 | — | — | — | 21 | <.010 | — | — | — |
| (D-1-6)15adb | 08-11-2000 | 6.6 | .47 E | 71 | 9.2 E | — | <1.0 | <.80 | <1.0 |
| (D-2-6)21aaa | 03-12-2000 | 1.3 | 2 | 64 | 11 E | — | <1.0 | <1.0 | <1.0 |
| | 08-11-2000 | 1.6 | 1 | 60 | 16 | — | <1.0 | <.80 | <1.0 |
| (D-2-6)22dca | 09-07-2000 | — | — | — | 12 E | <.010 | — | — | — |

[1]Results of chemical analysis reported by Utah Division of Drinking Water; analysis done by Chemtech-Ford Laboratory, Murray, Utah.
[2]Depth of well 84 feet; water sample from alluvium.
[3]Depth of well deepened to 290 feet; water sample from alluvium and volcanic rock.

| Date | Iron, dissolved (µg/L as Fe) | Lead, dissolved (µg/L as Pb) | Manganese, dissolved (µg/L as Mn) | Mercury, dissolved (µg/L as Hg) | Selenium, dissolved (µg/L as Se) | Silver, dissolved (µg/L as Ag) | Zinc, dissolved (µg/L as Zn) | Gross alpha, dissolved (pCi/L as Th-230) | Gross beta, dissolved (pCi/L as Cs-137) |
|---|---|---|---|---|---|---|---|---|---|
| **Ground-water sites** | | | | | | | | | |
| 01-18-1978 | 300 | 0 | 6.0 | 0 | 0 | 0 | 200 | — | — |
| 09-21-2000 | 280 | — | 12 | — | — | — | — | — | — |
| 07-27-2000 | <10 | — | <2.2 | — | — | — | — | — | — |
| 07-20-2000 | 7.9 E | <1.0 | 2.6 | <.2 | 1 | <1.0 | 67 | <3.0 | 12 |
| 05-30-2000 | <10 | <1.0 | 4.5 | <.2 | <1 | <1.0 | 82 | — | — |
| 09-06-2000 | 68 | — | 4.9 | — | — | — | — | <3.0 | <4.0 |
| 05-31-2000 | <10 | <1.0 | <1.0 | <.2 | <1 | <1.0 | 79 | — | — |
| 07-26-2000 | <10 | <1.0 | 3.7 | <.2 | <1 | <1.0 | 48 | <3.0 | <4.0 |
| 09-13-2000 | <10 | — | <2.2 | — | — | — | — | — | — |
| 08-24-2000 | <10 | — | <2.2 | — | — | — | — | — | — |
| 06-01-2000 | 6.5 E | — | 1.3 E | — | — | — | — | — | — |
| 08-31-2000 | <10 | — | 1.4 E | — | — | — | — | — | — |
| 10-11-1998 | 110 T | <5.0 T | <10.0 T | <.2 T | 4 T | <.5 T | <10.0 T | — | — |
| 06-14-2000 | <10 | <1.0 | <1.0 | <.2 T | <1 | <1.0 | 18 | <3.0 | <4.0 |
| 08-21-2000 | 13 | — | 5.0 | — | — | — | — | — | — |
| 09-11-2000 | <10 | — | <2.2 | — | — | — | — | — | — |
| 06-03-1992 | 320 T | <2.0 T | 10.0 T | <1.1 T | <1.0 T | <8.0 T | 9.0 T | — | — |
| 09-28-1994 | 160 T | <5.0 T | 35 T | <.2 T | <2.0 T | <2.0 T | 20 T | — | — |
| 09-28-2000 | <10 | — | <2.2 | — | — | — | — | — | — |
| 06-13-2000 | <10 | <1.0 | <1.0 | <.2 | <1 | <1.0 | 22 | <3.0 | <4.0 |
| 05-15-2000 | 20 | — | 1.2 E | — | — | — | — | — | — |
| 08-15-2000 | <10 | — | <2.2 | — | — | — | — | — | — |
| 05-18-2000 | <10 | — | 1.3 E | — | — | — | — | — | — |
| 08-28-2000 | <10 | <1.0 | 1.1 | <.2 | .38 E | <1.0 | 128 | <3.0 | 6.2 |
| 05-24-2000 | 8.8 E | <1.0 | <1.0 | <.2 | <1 | <1.0 | 14 | — | — |
| 08-22-2000 | <10 | — | <2.2 | — | — | — | — | — | — |
| 05-22-2000 | <10 | <1.0 | <1.0 | — | <1 | <1.0 | 11 | — | — |
| 03-27-1996 | 10 T | <10.0 T | <2.0 T | <.2 T | <2.0 T | <2.0 T | 8.0 T | — | — |
| 02-09-1991 | 180 T | <8.0 T | <10 T | <1.0 T | <56 T | <10 T | <10 T | — | — |
| 08-03-2000 | <10 | <1.0 | <1.0 | <.2 | <1 | <1.0 | 18 | <3.0 | <4.0 |
| 08-31-2000 | 3,700 | — | 56 | — | — | — | — | — | — |
| 09-27-2000 | 74 | — | 270 | — | — | — | — | — | — |
| 09-28-2000 | <10 | — | 1.7 E | — | — | — | — | — | — |
| 08-29-2000 | <10 | — | <2.2 | — | — | — | — | — | — |
| 11-02-2000 | <10 | — | 2.8 | — | — | — | — | — | — |
| 10-03-2000 | <10 | — | <2.2 | — | — | — | — | — | — |
| 12-07-1992 | <30 T | <1.0 T | <10.0 T | <.5 T | <2.0 T | <10.0 T | 127 T | <2 | <3 |
| 08-29-2000 | <10 | — | <2.2 T | — | — | — | — | — | — |
| 12-09-1988 | 80 T | <1.0 T | <10.0 T | <.2 T | <1.0 T | <1.0 T | <10.0 T | — | — |
| 08-16-2000 | 542 | — | 557 | — | — | — | — | — | — |
| 06-21-2000 | 53 | <1.0 | 28 | <.2 | 1 E | <1.0 | 29 | <3.0 | <4.0 |
| 11-28-2000 | 11 | — | 5.4 | — | — | — | — | 4.6 | <4.0 |
| 09-12-2000 | <10 | — | <2.2 | — | — | — | — | — | — |
| 07-25-2000 | <10 | <1.0 | 23 | <.2 | <1 | <1.0 | 155 | 4.4 | 6.9 |
| 05-15-1996 | 60 T | <5.0 T | <10.0 T | <.2 T | <2.0 T | <2.0 T | 50 T | 0 | 5 |
| 09-07-2000 | 29 | — | 4.7 | — | — | — | — | — | — |
| 12-27-1994 | — | <5.0 T | — | <.2 T | <2.0 T | — | — | 7 | 5 |
| 08-21-2000 | <10 | — | <2.2 | — | — | — | — | — | — |
| **Surface-water sites** | | | | | | | | | |
| 08-14-2000 | — | <1.0 | 2.5 | — | <1 | <1.0 | 7.2 | — | — |
| 09-21-2000 | 13 | — | 1.7 E | — | — | — | — | — | — |
| 08-14-2000 | 18 | <1.0 | 12 | — | <1 | <1.0 | 8.8 | — | — |
| 09-01-2000 | <10 | — | 6.5 | — | — | — | — | — | — |
| 08-11-2000 | 9.7 E | <1.0 | 2.5 | — | <1 | <1.0 | 6.2 | — | — |
| 03-12-2000 | 21 | <1.0 | 7.4 | — | <1 | <1.0 | 3.7 | — | — |
| 08-11-2000 | 58 | <1.0 | 15 | — | <1 | <1.0 | 2.3 | — | — |
| 09-07-2000 | 75 | — | 14 | — | — | — | — | — | — |

**Table 18.** Concentration of pesticides and herbicides in water from selected ground-water and surface-water sites in Kamas Valley and vicinity, Utah

[µg/L, micrograms per liter; —, no data; <, less than stated value; E, estimated value; shaded values indicate detections]

Location: See figure 1 for an explanation of the numbering system used for hydrologic-data sites in Utah.

| Location | Date | 2,4,5-T, dissolved (µg/L) | 2,4-D, dissolved (µg/L) | 2,4-DB, water, filtered (µg/L) | 2,6-Diethylaniline, water, filtered (µg/L) | 3-Hydroxycarbofuran, water, filtered (µg/L) | Acetochlor, water, filtered (µg/L) | Acifluorfen, water, filtered (µg/L) | Alachlor, water, dissolved (µg/L) | Aldicarb sulfone, water, filtered (µg/L) | Aldicarb sulfoxide, water, filtered (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Ground-water sites** | | | | | | | | | | | |
| (D-1-5)23dda-1 | 05-30-2000 | <0.0400 | <0.110 | <0.100 | <0.0030 | <0.110 | <0.0020 | <0.0900 | <0.002 | <0.100 | <0.0210 |
| (D-1-6)28cbc-1 | 06-14-2000 | <.0400 | <.110 | <.100 | <.0030 | <.110 | <.0020 | <.0900 | <.002 | <.100 | <.0210 |
| (D-2-5)24ada-1 | 05-15-2000 | <.0400 | <.110 | <.100 | <.0030 | <.110 | <.0020 | <.0900 | <.002 | <.100 | <.0210 |
| (D-2-6)9bbb-1 | 05-22-2000 | <.0400 | <.110 | <.100 | <.0030 | <.110 | .0031 E | <.0900 | <.002 | <.100 | <.140 |
| (D-2-6)29ada-1 | 08-16-2000 | <.0400 | <.110 | <.100 | <.0030 | <.110 | <.0020 | <.0900 | <.002 | <.100 | <.0210 |
| (D-2-6)34dcd-1 | 07-25-2000 | <.0400 | <.110 | <.100 | <.0030 | <.110 | <.0020 | <.0900 | <.002 | <.100 | <.0210 |
| **Surface-water sites** | | | | | | | | | | | |
| (D-1-5)10bdb | 08-14-2000 | — | — | — | <.0030 | — | <.0020 | — | <.002 | — | — |
| (D-1-5)23aca | 09-01-2000 | <.0400 | <.110 | <.100 | <.0030 | <.110 | <.0020 | <.0900 | <.002 | <.150 | <.0210 |
| (D-1-6)15adb | 08-11-2000 | — | — | — | <.0030 | — | <.0020 | — | <.002 | — | — |
| (D-2-6)21aaa | 08-11-2000 | — | — | — | <.0030 | — | <.0020 | — | <.002 | — | — |

| Location | Date | Chlorpyrifos, dissolved (µg/L) | Clopyralid, water, filtered (µg/L) | Cyanazine, water, dissolved (µg/L) | Dacthal monoacid, water, filtered (µg/L) | DCPA, water, filtered (µg/L) | Deethylatrazine, water, dissolved (µg/L) | Diazinon, dissolved (µg/L) | Dicamba, water, filtered (µg/L) | Dichlobenil, water, filtered (µg/L) | Dichlorprop, water, filtered (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Ground-water sites** | | | | | | | | | | | |
| (D-1-5)23dda-1 | 05-30-2000 | <.0040 | <.230 | <.0040 | <.0390 | <.0020 | <.0020 | <.002 | <.0430 | <.0700 | <.0320 |
| (D-1-6)28cbc-1 | 06-14-2000 | <.0040 | <.230 | <.0040 | <.0390 | <.0020 | <.0020 | <.002 | <.0430 | <.0700 | <.0320 |
| (D-2-5)24ada-1 | 05-15-2000 | <.0040 | <.230 | <.0040 | <.0390 | <.0020 | <.0020 | <.002 | <.0430 | <.0700 | <.0320 |
| (D-2-6)9bbb-1 | 05-22-2000 | <.0040 | <.230 | <.0040 | <.0390 | <.0020 | <.0020 | <.002 | <.0430 | <.0700 | <.0320 |
| (D-2-6)29ada-1 | 08-16-2000 | <.0040 | <.230 | <.0040 | <.0390 | <.0020 | <.0020 | <.002 | <.0430 | <.0700 | <.0320 |
| (D-2-6)34dcd-1 | 07-25-2000 | <.0040 | <.230 | <.0040 | <.0390 | <.0020 | <.0020 | <.002 | <.0430 | <.0700 | <.0320 |
| **Surface-water sites** | | | | | | | | | | | |
| (D-1-5)10bdb | 08-14-2000 | <.0040 | — | <.0040 | — | <.0020 | <.0040 | .004 E | — | — | — |
| (D-1-5)23aca | 09-01-2000 | <.0040 | <.230 | <.0040 | <.0390 | <.0020 | .0043 E | <.002 | <.0430 | <.0700 | <.0320 |
| (D-1-6)15adb | 08-11-2000 | <.0040 | — | <.0040 | — | <.0020 | <.0020 | <.002 | — | — | — |
| (D-2-6)21aaa | 08-11-2000 | <.0040 | — | <.0040 | — | <.0020 | <.0020 | <.002 | — | — | — |

| Location | Date | Linuron, water, filtered (µg/L) | Malathion, dissolved (µg/L) | MCPA, water, filtered (µg/L) | MCPB, water, filtered (µg/L) | Methiocarb, water, filtered (µg/L) | Methomyl, water, filtered (µg/L) | Methylazinphos, water, filtered (µg/L) | Methylparathion, water, filtered (µg/L) | Metolachlor, water, dissolved (µg/L) | Metribuzinsencor, water, dissolved (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Ground-water sites** | | | | | | | | | | | |
| (D-1-5)23dda-1 | 05-30-2000 | <.0020 | <.005 | <.170 | <.130 | <.0260 | <.0170 | <.0010 | <.0060 | <.002 | <.004 |
| (D-1-6)28cbc-1 | 06-14-2000 | <.0020 | <.005 | <.170 | <.130 | <.0260 | <.0170 | <.0010 | <.0060 | <.002 | <.004 |
| (D-2-5)24ada-1 | 05-15-2000 | <.0020 | <.005 | <.170 | <.130 | <.0260 | <.0170 | <.0010 | <.0060 | <.002 | <.004 |
| (D-2-6)9bbb-1 | 05-22-2000 | <.0020 | <.005 | <.170 | <.130 | <.0260 | <.860 | <.0100 | <.0060 | .005 | <.004 |
| (D-2-6)29ada-1 | 08-16-2000 | <.0020 | <.005 | <.170 | <.130 | <.0260 | <.0170 | <.0010 | <.0060 | <.002 | <.004 |
| (D-2-6)34dcd-1 | 07-25-2000 | <.0020 | <.005 | <.170 | <.130 | <.0260 | <.210 | <.0010 | <.0060 | <.002 | <.004 |
| **Surface-water sites** | | | | | | | | | | | |
| (D-1-5)10bdb | 08-14-2000 | <.0020 | <.005 | — | — | — | — | <.0010 | <.0200 | <.002 | <.004 |
| (D-1-5)23aca | 09-01-2000 | <.0020 | <.005 | <.170 | <.130 | <.0260 | <.160 | <.0010 | <.0060 | <.002 | <.004 |
| (D-1-6)15adb | 08-11-2000 | <.0020 | <.005 | — | — | — | — | <.0010 | <.0060 | <.002 | <.004 |
| (D-2-6)21aaa | 08-11-2000 | <.0020 | <.005 | — | — | — | — | <.0010 | <.0060 | <.002 | <.004 |

**Table 18.** Concentration of pesticides and herbicides in water from selected ground-water and surface-water sites in Kamas Valley and vicinity, Utah—Continued

| Location | Date | Aldicarb, water, filtered (µg/L) | Alpha BHC, dissolved (µg/L) | Atrazine, water, dissolved (µg/L) | Benfluralin, water, filtered (µg/L) | Bentazon, water, filtered (µg/L) | Bromacil, water, dissolved (µg/L) | Bromoxynil, water, filtered (µg/L) | Butylate, water, dissolved (µg/L) | Carbaryl, water, filtered (µg/L) | Carbofuran, water, filtered (µg/L) | Chloramben, methyl-ester, water, filtered (µg/L) | Chlorothalonil, water, filtered (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Ground-water sites** | | | | | | | | | | | | | |
| (D-1-5)23dda-1 | 05-30-2000 | <.210 | <.0020 | .003 E | <.0020 | <.0350 | <.0600 | <.0400 | <.0020 | <.0030 | <.0030 | <.140 | <.480 |
| (D-1-6)28cbc-1 | 06-14-2000 | <.210 | <.0020 | <.001 | <.0020 | <.0350 | <.0600 | <.0400 | <.0020 | <.0030 | <.0030 | <.140 | <.480 |
| (D-2-5)24ada-1 | 05-15-2000 | <.210 | <.0020 | <.001 | <.0020 | <.0350 | <.0600 | <.0400 | <.0020 | <.0030 | <.0030 | <.140 | <.480 |
| (D-2-6)9bbb-1 | 05-22-2000 | <.210 | <.0020 | .005 | <.0020 | <.0350 | <.0600 | <.0400 | <.0020 | <.0030 | <.0030 | <.140 | <.480 |
| (D-2-6)29ada-1 | 08-16-2000 | <.210 | <.0020 | <.001 | <.0020 | <.0350 | <.0600 | <.0400 | <.0020 | <.0030 | <.0030 | <.140 | <.480 |
| (D-2-6)34dcd-1 | 07-25-2000 | <.210 | <.0020 | .006 | <.0020 | <.0350 | <.0600 | <.0400 | <.0020 | <.0030 | <.0030 | <.140 | <.480 |
| **Surface-water sites** | | | | | | | | | | | | | |
| (D-1-5)10bdb | 08-14-2000 | — | <.0020 | <.004 | <.0020 | — | — | — | <.0020 | <.0030 | <.0030 | — | — |
| (D-1-5)23aca | 09-01-2000 | <.610 | <.0020 | .005 | <.0020 | <.0350 | <.0600 | <.0400 | <.0020 | <.0030 | <.0030 | <.140 | <.480 |
| (D-1-6)15adb | 08-11-2000 | — | <.0020 | <.001 | <.0020 | — | — | — | <.0020 | <.0030 | <.0030 | — | — |
| (D-2-6)21aaa | 08-11-2000 | — | <.0020 | <.001 | <.0020 | — | — | — | <.0020 | <.0030 | <.0030 | — | — |

| Location | Date | Dieldrin, dissolved (µg/L) | Dinoseb, water, filtered (µg/L) | Disulfoton, water, filtered (µg/L) | Diuron, water, filtered (µg/L) | DNOC, water, filtered (µg/L) | EPTC, water, filtered (µg/L) | Ethalfluralin, water, filtered (µg/L) | Ethoprop, water, filtered (µg/L) | Fenuron, water, filtered (µg/L) | Fluometuron, water, filtered (µg/L) | Fonofos, water, dissolved (µg/L) | Lindane, dissolved (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Ground-water sites** | | | | | | | | | | | | | |
| (D-1-5)23dda-1 | 05-30-2000 | <.001 | <.0600 | <.0170 | <.0600 | <.420 | <.0020 | <.0040 | <.0030 | <.0700 | <.0600 | <.0030 | <.004 |
| (D-1-6)28cbc-1 | 06-14-2000 | <.001 | <.0600 | <.0170 | <.0600 | <.420 | <.0020 | <.0040 | <.0030 | <.0700 | <.0600 | <.0030 | <.004 |
| (D-2-5)24ada-1 | 05-15-2000 | <.001 | <.0600 | <.0170 | <.0600 | <.420 | <.0020 | <.0040 | <.0030 | <.0700 | <.0600 | <.0030 | <.004 |
| (D-2-6)9bbb-1 | 05-22-2000 | <.001 | <.0600 | <.0170 | <.0600 | <.420 | <.0050 | <.0040 | <.0030 | <.0700 | <.0600 | <.0030 | <.004 |
| (D-2-6)29ada-1 | 08-16-2000 | <.001 | <.0600 | <.0170 | <.0600 | <.420 | <.0020 | <.0040 | <.0030 | <.0700 | <.0600 | <.0030 | <.004 |
| (D-2-6)34dcd-1 | 07-25-2000 | <.001 | <.0600 | <.0170 | <.0600 | <.420 | <.0020 | <.0040 | <.0030 | <.0700 | <.0600 | <.0030 | <.004 |
| **Surface-water sites** | | | | | | | | | | | | | |
| (D-1-5)10bdb | 08-14-2000 | <.001 | — | <.0170 | — | — | <.250 | <.0040 | <.0030 | — | — | <.0030 | <.004 |
| (D-1-5)23aca | 09-01-2000 | <.001 | <.0600 | <.0170 | <.0600 | <.420 | <.0020 | <.0040 | <.0030 | <.0700 | <.0600 | <.0030 | <.004 |
| (D-1-6)15adb | 08-11-2000 | <.001 | — | <.0170 | — | — | <.0020 | <.0040 | <.0030 | — | — | <.0030 | <.004 |
| (D-2-6)21aaa | 08-11-2000 | <.001 | — | <.0170 | — | — | <.0020 | <.0040 | <.0030 | — | — | <.0030 | <.004 |

| Location | Date | Molinate, water, filtered (µg/L) | Napropamide, water, filtered (µg/L) | Neburon, water, filtered (µg/L) | Norflurazon, water, filtered (µg/L) | Oryzalin, water, filtered (µg/L) | Oxamyl, water, filtered (µg/L) | P,P' DDE, dissolved (µg/L) | Parathion, dissolved (µg/L) | Pebulate, water, filtered (µg/L) | Pendimethalin, water, filtered (µg/L) | Permethrin CIS, water, filtered (µg/L) | Phorate, water, filtered (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Ground-water sites** | | | | | | | | | | | | | |
| (D-1-5)23dda-1 | 05-30-2000 | <.0040 | <.0030 | <.0700 | <.0420 | <.310 | <.0180 | <.0060 | <.004 | <.0040 | <.0040 | <.0050 | <.0020 |
| (D-1-6)28cbc-1 | 06-14-2000 | <.0040 | <.0030 | <.0700 | <.0420 | <.310 | <.0180 | <.0060 | <.004 | <.0040 | <.0040 | <.0050 | <.0020 |
| (D-2-5)24ada-1 | 05-15-2000 | <.0040 | <.0030 | <.0700 | <.0420 | <.310 | <.0180 | <.0060 | <.004 | <.0040 | <.0040 | <.0050 | <.0020 |
| (D-2-6)9bbb-1 | 05-22-2000 | <.0040 | <.0030 | <.0700 | <.0420 | <.310 | <.0180 | <.0060 | <.004 | <.0040 | <.0040 | <.0050 | <.0020 |
| (D-2-6)29ada-1 | 08-16-2000 | <.0040 | <.0030 | <.0700 | <.0420 | <.310 | <.0180 | <.0060 | <.004 | <.0040 | <.0040 | <.0050 | <.0020 |
| (D-2-6)34dcd-1 | 07-25-2000 | <.0040 | <.0030 | <.0700 | <.0420 | <.310 | <.0180 | <.0060 | <.004 | <.0040 | <.0040 | <.0050 | <.0020 |
| **Surface-water sites** | | | | | | | | | | | | | |
| (D-1-5)10bdb | 08-14-2000 | <.0040 | <.0030 | — | — | — | — | .0023 E | <.004 | <.0040 | <.0040 | <.0050 | <.0020 |
| (D-1-5)23aca | 09-01-2000 | <.0040 | <.0030 | <.1400 | <.0420 | <.310 | <.100 | <.0060 | <.004 | <.0040 | <.0040 | <.0050 | <.0020 |
| (D-1-6)15adb | 08-11-2000 | <.0040 | <.0030 | — | — | — | — | <.0060 | <.004 | <.0040 | <.0040 | <.0050 | <.0020 |
| (D-2-6)21aaa | 08-11-2000 | <.0040 | <.0030 | — | — | — | — | <.0060 | <.004 | <.0040 | <.0040 | <.0050 | <.0020 |

**Table 18.** Concentration of pesticides and herbicides in water from selected ground-water and surface-water sites in Kamas Valley and vicinity, Utah—Continued

| Location | Date | Picloram, water, filtered (µg/L) | Prometon, water, dissolved (µg/L) | Pronamide, water, filtered (µg/L) | Propchlor, water, dissolved (µg/L) | Propanil, water, filtered (µg/L) | Propargite, water, filtered (µg/L) | Propham, water, filtered (µg/L) | Propoxur, water, filtered (µg/L) | Silvex, dissolved (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| **Ground-water sites** | | | | | | | | | | |
| (D-1-5)23dda-1 | 05-30-2000 | <.0500 | <.0180 | <.0030 | <.0070 | <.0040 | <.0130 | <.0350 | <.0800 | <.0600 |
| (D-1-6)28cbc-1 | 06-14-2000 | <.0500 | <.0180 | <.0030 | <.0070 | <.0040 | <.0130 | <.0350 | <.0800 | <.0600 |
| (D-2-5)24ada-1 | 05-15-2000 | <.0500 | <.0180 | <.0030 | <.0070 | <.0040 | <.0130 | <.0350 | <.0800 | <.0600 |
| (D-2-6)9bbb-1 | 05-22-2000 | <.0500 | <.0180 | <.0030 | <.0070 | <.0040 | <.0130 | <.0350 | <.0800 | <.0600 |
| (D-2-6)29ada-1 | 08-16-2000 | <.0500 | <.0180 | <.0030 | <.0070 | <.0040 | <.0130 | <.0350 | <.0800 | <.0600 |
| (D-2-6)34dcd-1 | 07-25-2000 | <.0500 | <.0180 | <.0030 | <.0070 | <.0040 | <.0130 | <.0350 | <.0800 | <.0600 |
| **Surface-water sites** | | | | | | | | | | |
| (D-1-5)10bdb | 08-14-2000 | — | <.0180 | <.0030 | <.0070 | <.0040 | <.0600 | — | — | — |
| (D-1-5)23aca | 09-01-2000 | <.0500 | <.0180 | <.0030 | <.0070 | <.0040 | <.0130 | <.0350 | <.0800 | <.0600 |
| (D-1-6)15adb | 08-11-2000 | — | <.0180 | <.0030 | <.0070 | <.0040 | <.0130 | — | — | — |
| (D-2-6)21aaa | 08-11-2000 | — | <.0180 | <.0030 | <.0070 | <.0040 | <.0130 | — | — | — |

| Location | Date | Simazine, water, dissolved (µg/L) | Tebuthiuron, water, filtered (µg/L) | Terbacil, water, filtered (µg/L) | Terbufos, water, filtered (µg/L) | Thiobencarb, water, filtered (µg/L) | Triallate, water, filtered (µg/L) | Triclopyr, water, filtered (µg/L) | Trifluralin, water, filtered (µg/L) |
|---|---|---|---|---|---|---|---|---|---|
| **Ground-water sites** | | | | | | | | | |
| (D-1-5)23dda-1 | 05-30-2000 | .0025 E | <.0100 | <.0070 | <.0130 | <.0020 | <.0010 | <.250 | <.0020 |
| (D-1-6)28cbc-1 | 06-14-2000 | <.0050 | <.0100 | <.0070 | <.0130 | <.0020 | <.0010 | <.250 | <.0020 |
| (D-2-5)24ada-1 | 05-15-2000 | <.0050 | <.0100 | <.0070 | <.0130 | <.0020 | <.0010 | <.250 | <.0020 |
| (D-2-6)9bbb-1 | 05-22-2000 | <.0050 | <.0100 | <.0070 | <.0130 | <.0020 | <.0010 | <.250 | <.0020 |
| (D-2-6)29ada-1 | 08-16-2000 | <.0050 | <.0100 | <.0070 | <.0130 | <.0020 | <.0010 | <.250 | <.0020 |
| (D-2-6)34dcd-1 | 07-25-2000 | <.0050 | <.0100 | <.0070 | <.0130 | <.0020 | <.0010 | <.250 | <.0020 |
| **Surface-water sites** | | | | | | | | | |
| (D-1-5)10bdb | 08-14-2000 | <.0050 | <.0100 | <.0070 | <.0130 | <.0020 | <.0010 | — | .0050 |
| (D-1-5)23aca | 09-01-2000 | .0038 E | <.0100 | <.0070 | <.0130 | <.0020 | <.0010 | <.250 | <.0020 |
| (D-1-6)15adb | 08-11-2000 | <.0050 | <.0100 | <.0070 | <.0130 | <.0020 | <.0010 | — | <.0020 |
| (D-2-6)21aaa | 08-11-2000 | <.0050 | <.0100 | <.0070 | <.0130 | <.0020 | <.0010 | — | <.0020 |

**Table 19.** Physical properties and concentration of major ions, nutrients, and trace elements for blank and duplicate samples processed at selected wells in Kamas Valley, Utah

[µS/cm, microsiemens per centimeter at 25 degrees Celsius; mg/L, milligrams per liter; µg/L, micrograms per liter; deg. C, degrees Celsius; <, less than stated value; E, estimated value; —, no data]

Location: Site at which quality-assurance sample was processed. See figure 1 for an explanation of the numbering system used for hydrologic-data sites in Utah.

| Location | Date | pH, water, whole, lab (standard units) | Specific conductance, lab (µS/cm) | Calcium, dissolved (mg/L as Ca) | Magnesium, dissolved (mg/L as Mg) | Potassium, dissolved (mg/L as K) | Sodium, dissolved (mg/L as Na) | Alkalinity, water dissolved, lab (mg/L as $CaCO_3$) | Chloride, dissolved (mg/L as Cl) |
|---|---|---|---|---|---|---|---|---|---|
| [1](D-2-6)4dac-1 | 08-28-2000 | 7.9 | 3 | <0.020 | <0.014 | <0.24 | <0.090 | 2.0 | <0.29 |
| [2](D-2-6)8ddd-1 | 08-22-2000 | 7.9 | 430 | 55 | 16 | .56 | 5.4 | 200 | 13 |
| [3](D-2-6)8ddd-1 | 08-22-2000 | 7.6 | 425 | 55 | 16 | .51 | 5.3 | 200 | 13 |
| [1](D-2-6)26abb-1 | 10-03-2000 | 8.3 | 2 E | <.020 | <.014 | <.24 | <.090 | <1.0 | <.29 |
| [1](D-2-6)34dcd-1 | 07-25-2000 | 8.0 | 5 | .062 | <.014 | <.24 | <.090 | 2.0 | <.29 |

| Location | Date | Fluoride, dissolved (mg/L as F) | Silica, dissolved (mg/L as $SiO_2$) | Sulfate, dissolved (mg/L as $SO_4$) | Nitrogen, ammonia, dissolved (mg/L as N) | Nitrogen, ammonia+ organic, dissolved (mg/L as N) | Nitrogen, $NO_2$+$NO_3$, dissolved (mg/L as N) | Nitrogen, nitrite, dissolved (mg/L as N) | Phosphorus, dissolved (mg/L as P) |
|---|---|---|---|---|---|---|---|---|---|
| (D-2-6)4dac-1 | 08-28-2000 | <.10 | <.090 | <.31 | — | — | — | — | — |
| (D-2-6)8ddd-1 | 08-22-2000 | <.10 | 9.8 | 7.7 | <.020 | <.10 | .683 | <.010 | <.050 |
| (D-2-6)8ddd-1 | 08-22-2000 | .10 | 9.8 | 7.7 | <.020 | <.10 | .680 | <.010 | <.050 |
| (D-2-6)26abb-1 | 10-03-2000 | <.10 | <.090 | <.31 | <.020 | <.10 | <.050 | <.010 | <.060 |
| (D-2-6)34dcd-1 | 07-25-2000 | <.10 | .12 | <.31 | — | — | — | — | — |

| Location | Date | Phosphate, ortho, dissolved (mg/L as P) | Solids, residue at 180 deg. C, dissolved (mg/L) | Aluminum, dissolved (µg/L as Al) | Arsenic, dissolved (µg/L as As) | Barium, dissolved (µg/L as Ba) | Boron, dissolved (µg/L as B) | Bromide, dissolved (mg/L as Br) | Cadmium, dissolved (µg/L as Cd) |
|---|---|---|---|---|---|---|---|---|---|
| (D-2-6)4dac-1 | 08-28-2000 | — | <10 | <1.0 | <1 | <1.0 | <16 | <.010 | <1.0 |
| (D-2-6)8ddd-1 | 08-22-2000 | <.010 | 236 | — | — | — | 13 E | .070 | — |
| (D-2-6)8ddd-1 | 08-22-2000 | <.010 | 234 | — | — | — | 17 | .053 | — |
| (D-2-6)26abb-1 | 10-03-2000 | <.010 | <10 | — | — | — | <16 | <.010 | — |
| (D-2-6)34dcd-1 | 07-25-2000 | — | <10 | 23 | <1 | <1.0 | 9.4 E | <.010 | <1.0 |

| Location | Date | Chromium, dissolved (µg/L as Cr) | Copper, dissolved (µg/L as Cu) | Iron, dissolved (µg/L as Fe) | Lead, dissolved (µg/L as Pb) | Manganese, dissolved (µg/L as Mn) | Selenium, dissolved (µg/L as Se) | Silver, dissolved (µg/L as Ag) | Zinc, dissolved (µg/L as Zn) |
|---|---|---|---|---|---|---|---|---|---|
| (D-2-6)4dac-1 | 08-28-2000 | <.80 | <1.0 | <10 | <1.0 | <1.0 | <1 | <1.0 | <1.0 |
| (D-2-6)8ddd-1 | 08-22-2000 | — | — | <10 | — | <2.2 | — | — | — |
| (D-2-6)8ddd-1 | 08-22-2000 | — | — | <10 | — | <2.2 | — | — | — |
| (D-2-6)26abb-1 | 10-03-2000 | — | — | <10 | — | <2.2 | — | — | — |
| (D-2-6)34dcd-1 | 07-25-2000 | <.80 | <1.0 | <10 | <1.0 | <1.0 | <1 | <1.0 | 9.8 |

[1]Blank sample.
[2]Duplicate sample.
[3]Environmental sample.

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