HYDROLOGIC DATA FOR A STUDY OF PRE-ILLINOIAN GLACIAL TILL IN LINN COUNTY, IOWA, WATER YEAR 1991

By Phillip R. Bowman

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Multiply	*By*	*To obtain*
inch	2.54	centimeter
foot	0.3048	meter
mile	1.609	kilometer
degree Fahrenheit (°F)	(1)	degree Celsius

[1] Temperature in degrees Celsius (°C) can be converted to degrees Fahrenheit (°F) as follows:

$$°F = (9/5)\ (°C) + 32$$

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.

Water Year: A water year is a 12-month period, from October through September, designated by the calendar year in which it ends. Years are water years in this report unless otherwise stated.

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ABSTRACT

Hydrologic data for a study of pre-Illinoian glacial till were collected during the 1991 water year at a site in Linn County, east-central Iowa. A hydrologic-data-collection network, consisting of a meteorological station, 22 observation wells, and a water-quality minimonitor, was installed at the site to investigate the hydraulic properties of the till. Recorders were installed on 12 of the observation wells to continuously monitor water levels.

Rainfall at the study site from October 1990 to September 1991 was 17.86 inches. The greatest monthly rainfall (4.07 inches) occurred in March. The smallest monthly rainfall (0.06 and 0.04 inch) occurred in June and July, respectively.

The highest water levels measured in 22 observation wells were recorded from March through May 1991. Water levels in three of the deeper wells, completed in the unweathered glacial till, continued to rise from the time the wells were initially installed in November 1989 until they were bailed for water-quality sampling in May 1991. One well had water levels greater than the top of the well casing for most of the period from March to mid-July.

Ten unvented, vibrating-wire pressure transducers with internal thermistors were buried in two boreholes at upgradient and downgradient locations to record hydraulic pressure and water temperature at selected depths.

A water-quality minimonitor was installed near the top of the water table to monitor temporal changes in ground-water quality. For October 1990 through September 1991, the daily mean water temperatures ranged from 7.3 to 14.9 degrees Celsius, and the daily median pH values ranged from 6.9 to 7.5 standard units.

Herbicide concentrations in rainfall ranged from 0.05 to 1.3 micrograms per liter. Herbicides detected in the largest concentrations included alachlor, atrazine, and metolachlor. Metribuzin was the only herbicide detected in ground-water samples at a concentration of 0.10 micrograms per liter in water from one observation well.

INTRODUCTION

Continental glaciation during the Pleistocene Epoch is responsible for many of the present-day landforms in the northern United States and Canada. Glacial drift was deposited during the advance and retreat of the glaciers and, thus, is the parent material for most of the soils and very permeable aquifers in these areas. The number of studies of the hydrogeologic properties of glacial till in the Interior Plains Region of North America, particularly in Canada, has increased since the 1970's. Studies that delineate the physical and chemical aspects of ground-water movement in till are of interest to many groups because areas overlain by glacial till deposits are considered the most suitable for landfill and waste disposal sites. A great deal of research on Wisconsin till has been done during the the last two decades; however, little research has been done on the hydrology of pre-Illinoian till. It is unknown, therefore, whether the hydrology of Wisconsin and pre-Illinoian till differs.

A 2-year study to describe the hydrology of pre-Illinoian till in Iowa was begun in 1989. For this report, pre-Illinoian till is defined as glacial deposits older than 500,000 years before the present (1991) (T.J. Kemmis, Iowa Department of Natural Resources, Geological Survey Bureau, oral commun., 1991). In the midwest United States, Wisconsin till ranges in age from about 40,000 to 10,000 years before the present (T.J. Kemmis, Iowa Department of Natural Resources, Geological Survey Bureau, oral commun., 1991). Pre-Illinoian till is exposed at the land surface in different areas in eastern Iowa; thus, a location representative of pre-Illinoian till was selected in Linn County, Iowa, south of Cedar Rapids (fig. 1).

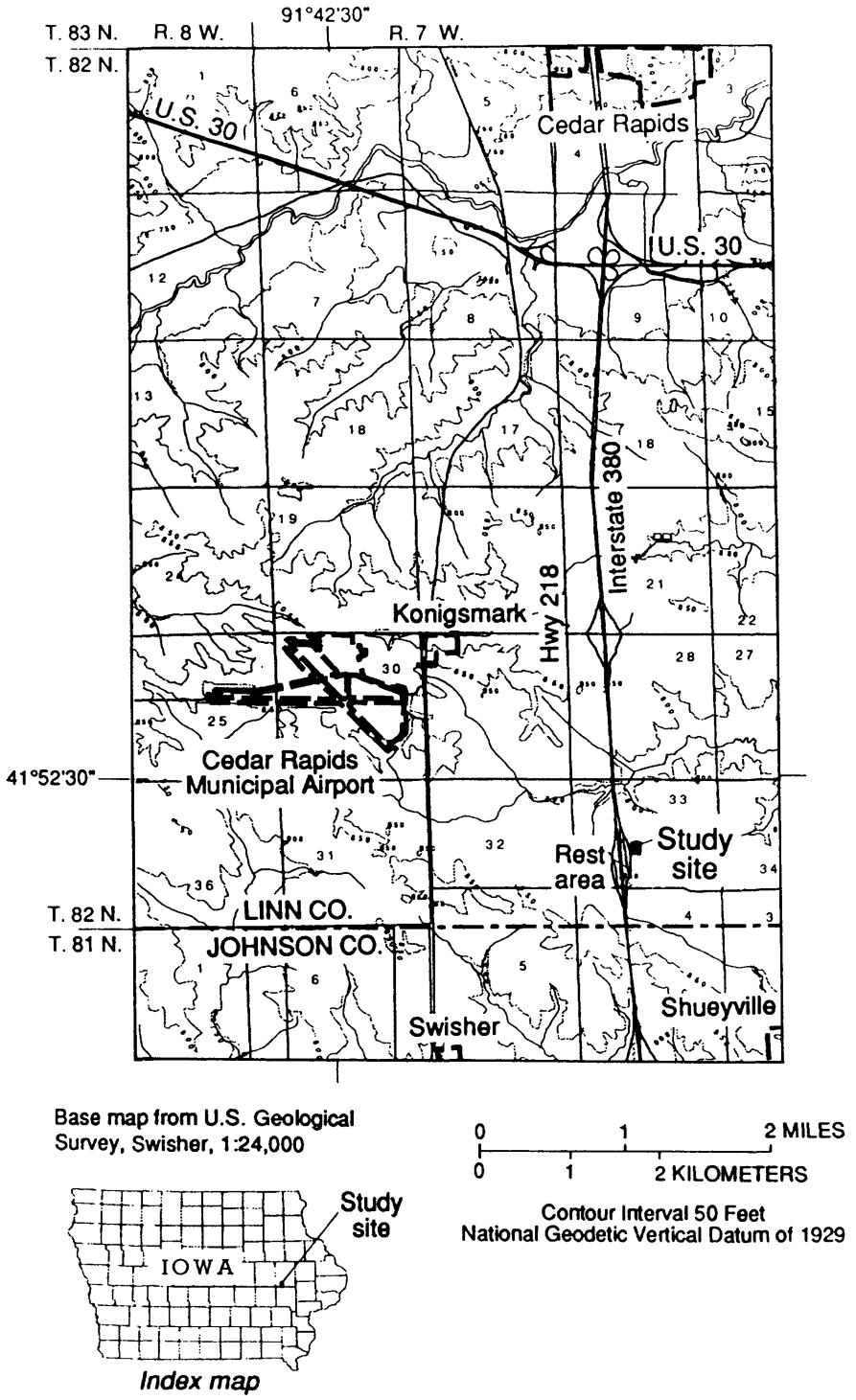

Figure 1. Location of study site.

Purpose and Scope

The overall objective of the till hydrology study is to describe the hydrology of ground-water movement and water chemistry in a pre-Illinoian till. The hydrologic data collected will be useful in the development of methods to describe the hydrogeological properties of fine-grained sediments in Iowa. The data also will be useful in the development of techniques necessary for the hydrogeologic assessment of landfill and waste-disposal problems.

This report is the second in a series of reports that presents data collected by the U.S.Geological Survey at the till hydrology study site in Linn County. Hydrologic data collected in the first year of this study, water year 1990, are published in a previous report (Bowman, 1991). The data that are presented were collected during the 1991 water year, October 1990 through September 1991.

Hydrologic data in this report are presented in four sections: (1) data for a meteorological station, (2) data for 22 observation wells, (3) data for 10 pressure transducers and thermistors, and (4) water-quality data for selected chemical constituents and properties. The meteorological data include rainfall, barometric-pressure, and air-temperature measurements. The observation-well data include water levels measured by 12 continuous water-level recorders and intermittent water-level measurements manually collected at the 22 observation wells. Data from the 10 pressure transducers and thermistors buried at selected depths in two boreholes include hydraulic-pressure and water-temperature measurements. The water-quality data include determinations of water temperature, pH, selected herbicides and herbicide metabolites, selected nitrogen and phosphorous species, and major ions. The data are presented graphically and summarized in tables 1-9 at the end of this report. Graphs depict daily means, unless otherwise specified.

Hydrologic Setting

The study site is located on the east side of Interstate Highway 380, at the rest area, about 4 miles south of U.S. Highway 30, in the NE 1/4 SE 1/4 sec.33, T.82 N., R.7 W. in Linn County, Iowa (fig. 1). The study site is 400 feet long by 150 feet wide (fig. 2), has a maximum relief of about 17 feet, and drains toward the north-northeast.

Environmental features near the site include a pumped well completed in Silurian bedrock about 500 feet south of the site, a sewage lagoon located about 0.5 mile west of the site on the west side of Interstate Highway 380, and extensive paved areas about 500 feet west of the site which drains toward the west-northwest.

The site was selected primarily because of the absence of a loess cover. The absence of loess allowed the study of the hydraulic properties of the pre-Illinoian till without interference from a different, overlying hydrologic unit. The glacial drift at the study site consists of about 100 feet of unconsolidated material overlying Silurian bedrock. Locally, the topography is flat to slightly rolling, and the topography of the bedrock surface, in general, may look very similar to present-day land-surface topography (Wahl and Bunker, 1986).

Methods

Hydraulic properties of the till were investigated by monitoring hydraulic head at 22 observation wells grouped at five sites. Observation wells were installed at specific depths to establish hydraulic gradients along the boundaries of the study site and particularly along the prevailing flow path in the north-south direction. Table 2 includes construction data for the 22 observation wells, including local number, station identification number, land-surface elevation, well depth, screened interval, measuring-point elevation, and aquifer type. Land-surface elevations for all observation wells and the two boreholes were established. The study site was divided into a coordinated grid with elevations established at 50-foot intervals (fig. 2).

Observation wells and boreholes were installed between October 1989 and early April 1990. Fifteen observation wells less than 45 feet in depth and a monitoring well for continuous water-quality determinations were drilled by auger. Hydraulic rotary drilling was used to

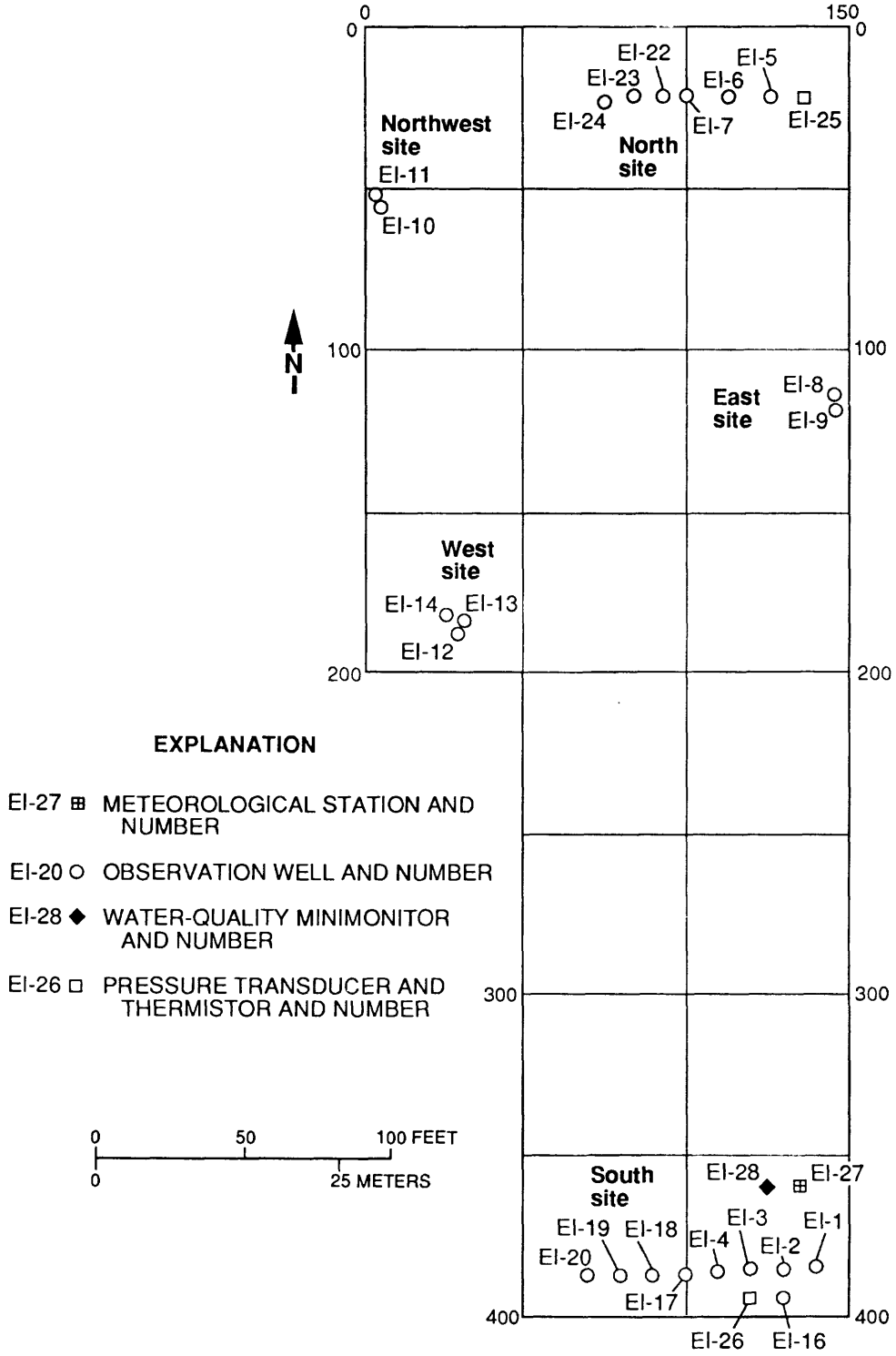

Figure 2. Location of meteorological station, observation wells, water-quality minimonitor, and pressure transducers and thermistors.

install seven observation wells (table 2) and two boreholes (table 5) greater than 45 feet in depth.

Observation well EI-1 was constructed with 6-inch-diameter steel casing. All other observation wells were constructed with 2-inch-diameter polyvinyl-chloride (PVC) plastic casing. Well construction of the 2-inch wells consisted of placing sand packs in the annulus to a depth of 1 foot above the screened intervals. Dry bentonite then was poured into the annulus to a depth of about 1 foot below land surface, and the remaining 1 foot was filled with cuttings. Wells less than 45 feet in depth were not developed so that hydraulic-conductivity tests could be compared for pre-developed and post-developed wells.

Rainfall, barometric pressure, and air temperature were recorded every 15 minutes, and continuous water-level determinations, pressure and thermistor measurements, and water-quality measurements were recorded hourly. All monitoring instruments at the study site were connected to digital data loggers, and data from the site were retrieved weekly.

A meteorological station, consisting of an unheated tipping-bucket rain gage, a barometric-pressure sensor, and an air-temperature sensor, was installed during April 1990 to record climatic conditions (fig. 2). Barometric-pressure measurements were compared periodically with readings from a U.S. National Weather Service station at the Cedar Rapids Municipal Airport about 2.5 miles northwest of the study site (fig. 1). Barometric-pressure measurements made at the study site compared favorably with the measurements made at the airport. Continuous water-level recorders were installed during March and April 1990 on 12 observation wells to monitor water-level fluctuations. Steel-tape measurements of water levels were made periodically to calibrate water-level fluctuations measured by the continuous water-level recorders. Intermittent water-level measurements began soon after the wells were installed.

Five unvented, vibrating-wire pressure transducers with internal thermistors were buried in each of two boreholes; one at the south site (upgradient) and one at the north site (downgradient) (fig. 2). This provided a method of collecting water-level and water-temperature measurements unaffected by the influence of a cased observation well. The boreholes for the transducers were rotary drilled in November 1989, and placed at depths selected to correspond with observation-well depths. Table 5 includes the construction data for the 10 transducers including local number, station identification number, land-surface elevation, approximate sensor depth, and approximate sensor elevation. The transducers are enclosed in the middle of vertical 2-foot sand packs. The sand packs in each borehole were separated from each other with a slurry of bentonite and portland cement. Measurements of hydraulic pressure and water temperature at each depth were recorded by digital data logger.

A multiple-constituent water-quality minimonitor was installed during April 1990 to measure specific conductance, water temperature, and pH of the shallow ground water and changes that might occur due to precipitation. The minimonitor was installed in a well at the south site and is 4 inches in diameter, 15 feet deep, and has a screened interval from 12 to 15 feet below land surface (fig. 2).

Water samples were collected for water-quality analysis on a periodic basis from May through August 1991 (table 9). Constituents were selected to account for nearby farming practices, ground-water quality, and background water quality. All wells were bailed dry a minimum of 24 hours prior to sampling. After 24 hours water levels in some wells had still not recovered to a sufficient level to provide enough water volume for analysis; therefore, sampling was prioritized for herbicides, nutrients, trace metals, and anions. Onsite measurements for specific conductance, pH, and water temperature were made immediately after the sample was collected. Herbicide sampling included filtering 1 liter of sample through a 0.45-micron glass-fiber filter into a glass bottle. Dissolved-nutrient sampling included filtering of 250-milliliter samples through a 0.45-micron acetate filter. Nutrient samples were preserved with mercuric chloride. Dissolved trace-metal samples were filtered through an acetate filter into an acid-rinsed 250-milliliter bottle and preserved with nitric acid. Dissolved-ion samples were filtered

through an acetate filter into 250-milliliter bottles. All samples were chilled immediately. Analytical methods used for water-quality analysis were for low-level detection. Chemical analysis was conducted by the U.S. Geological Survey Water-Quality Laboratory in Arvada, Colorado. Complete laboratory procedures are described in Fishman and Friedman (1989).

Acknowledgments

This study was supported in part by the Iowa Department of Natural Resources through the Aquitard Hydrology Project, with funds provided from the Iowa Groundwater Protection Act. George Hallberg, Coordinator of the Aquitard Hydrology Project, and other members of the Iowa Department of Natural Resources, Geological Survey Bureau, provided technical advice and onsite support. Installation of observation wells and pressure transducers and thermistors by hydraulic-rotary drilling was done by employees of the Iowa Department of Natural Resources, Geological Survey Bureau. The Iowa Department of Transportation granted permission to use the land for the study.

HYDROLOGIC DATA SUMMARY

Meteorological Station

Daily rainfall, mean daily barometric pressure, and mean daily air temperature at the study site are displayed in figure 3. Daily rainfall, mean daily barometric pressure, and maximum and minimum daily air temperatures are summarized in table 1 at the end of this report.

Rainfall for the 1991 water year totaled 17.86 inches. The greatest monthly rainfall was 4.07 inches and occurred during March 1991 (fig. 3). The smallest monthly rainfall (0.06 and 0.04 inch) occurred in June and July 1991 (fig. 3). Total rainfall measured at the study site was less than total precipitation recorded at the Cedar Rapids airport. Total precipitation for the 1991 water year at the airport was 26.69 inches. Measurements recorded during freezing temperatures were also less than those recorded at the airport. The mean daily barometric pressure for the 1991 water year ranged from a high of 778 millimeters of mercury on January 3, 1991, to a low of 745 millimeters of mercury on March 27, 1991 (fig. 3). Mean daily air temperatures at the site for the 1991 water year ranged from a high of 37.4 degrees Celsius on July 19, 1991, to a low of -24.6 degrees Celsius on January 30, 1991 (fig. 3).

Observation Wells

The daily mean water levels in nine observation wells instrumented with continuous recorders are displayed graphically in figure 4 and are listed in table 3. The water levels measured intermittently by steel tape in all of the observation wells are displayed graphically in figure 5 and are listed in table 4. The highest water levels were recorded from March through May 1991. Water levels in observation well (EI-1) drilled into the Silurian bedrock fluctuated from a high of 757.77 feet above sea level on May 11, 1991 to a low of 751.64 feet above sea level on July 22, 1991.

Continuous recorders on wells EI-3, EI-5, and EI-6 were disconnected in February 1991 due to equipment malfunction and bailing for chemical analysis of water. Data collected in wells EI-5 and EI-6 are not presented in figure 4 or table 3 because of equipment problems that caused unreliable data. All continuous recorders were disconnected in May 1991 through the remainder of the water year due to disruption of the water levels caused by water-quality sampling. Wells were bailed 24 hours prior to sampling, and because recharge of water was so slow, water levels did not recover in some of the wells between monthly sampling periods. Well EI-7 had water levels greater than or near the top of the casing from October to mid-July 1990. In November, a packer was installed in the well to keep the water level below the frostline. The packer was removed in April 1991 and shortly after removal the water level was higher than the top of the casing; therefore, instrumentation was not reinstalled. Data is not presented for well EI-7 in figure 4 or table 3. Missing periods of data at other continuous recording sites are due to equipment malfunction or hydraulic conductivity tests. Wells EI-1 and EI-16 were not sampled.

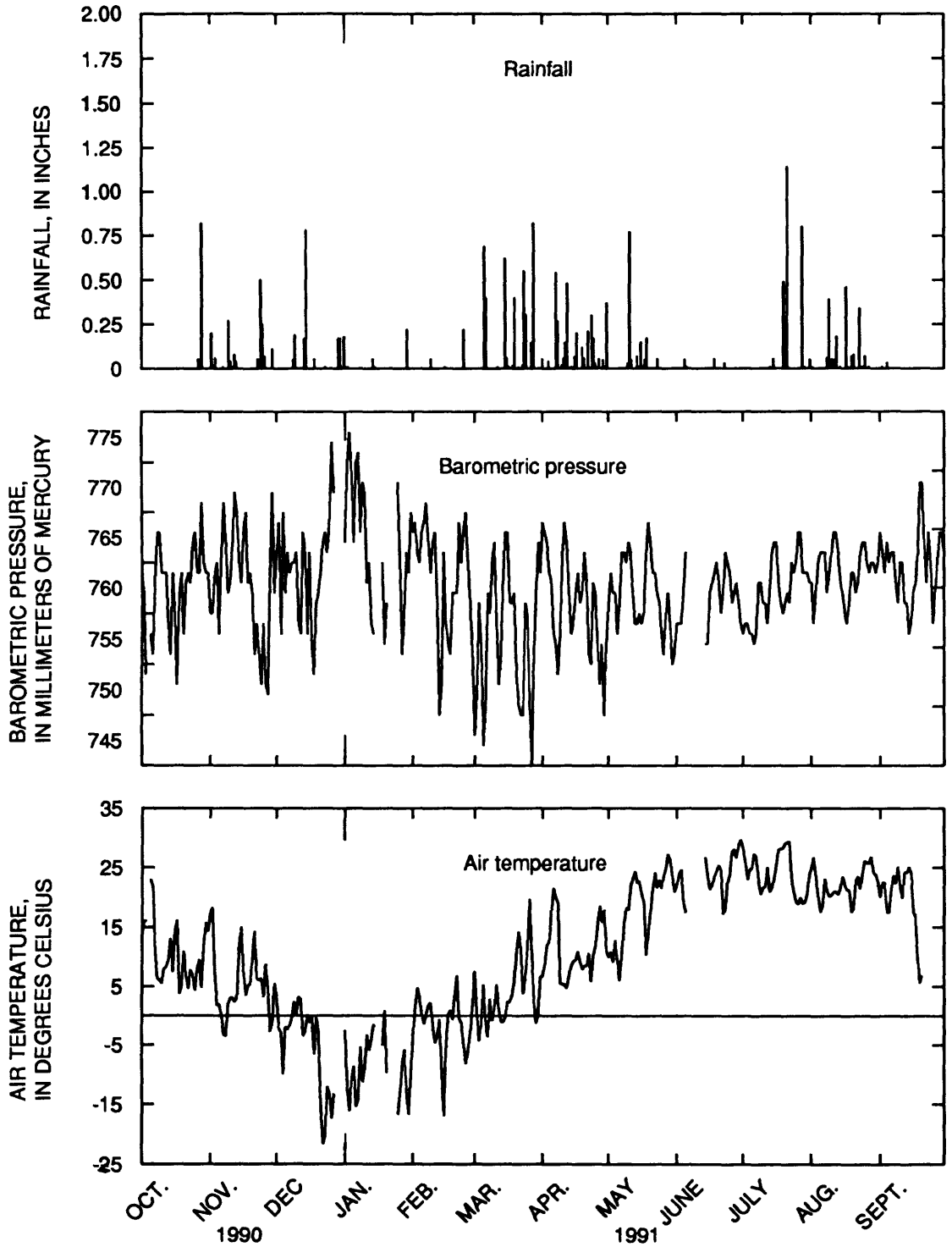

Figure 3. Daily rainfall, mean daily barometric pressure, and mean daily air temperature, water year 1991.

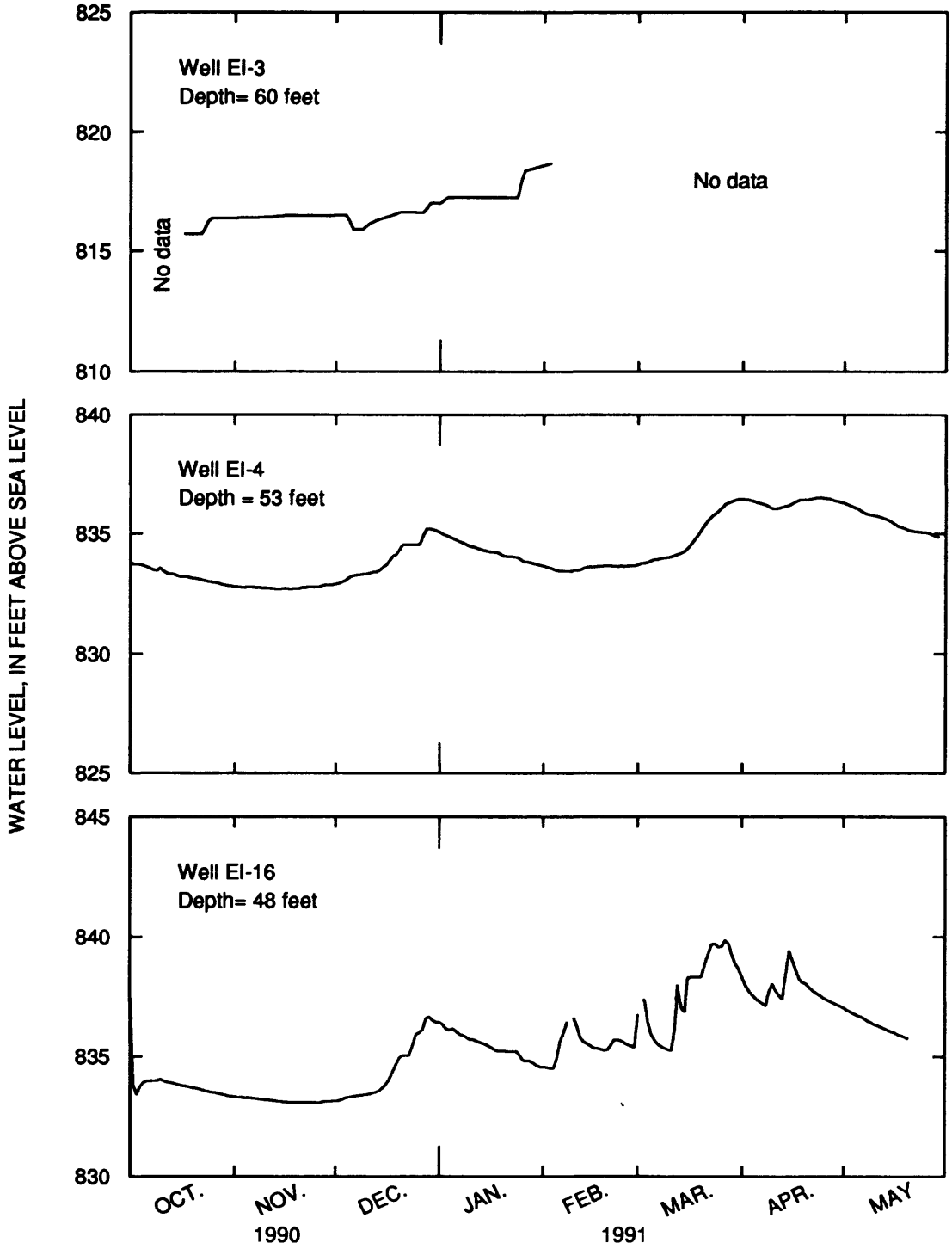

Figure 4. Daily mean water levels in continuously monitored observation wells, October 1990-May 1991.

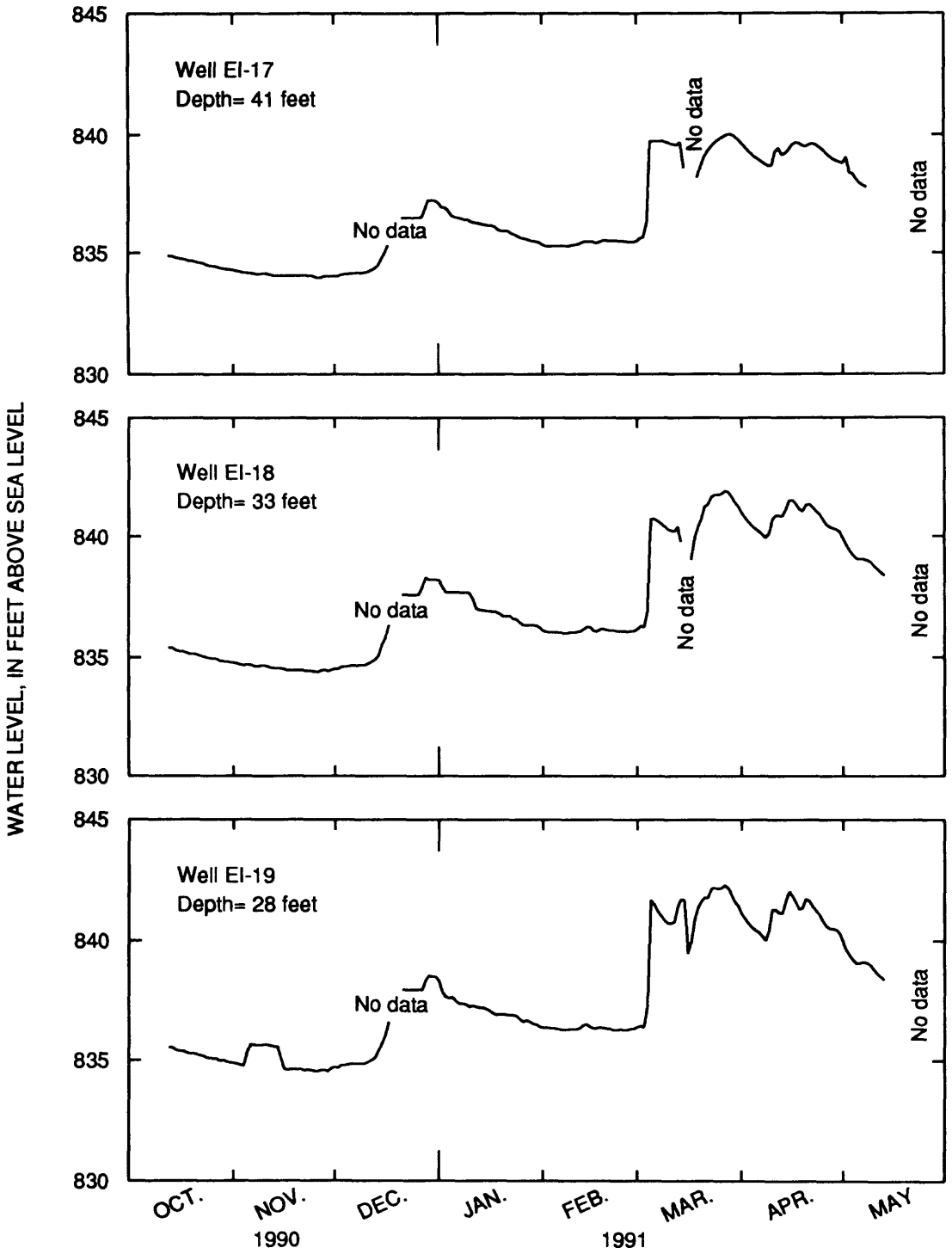

Figure 4. Daily mean water levels in continuously monitored observation wells, October 1990-May 1991--Continued

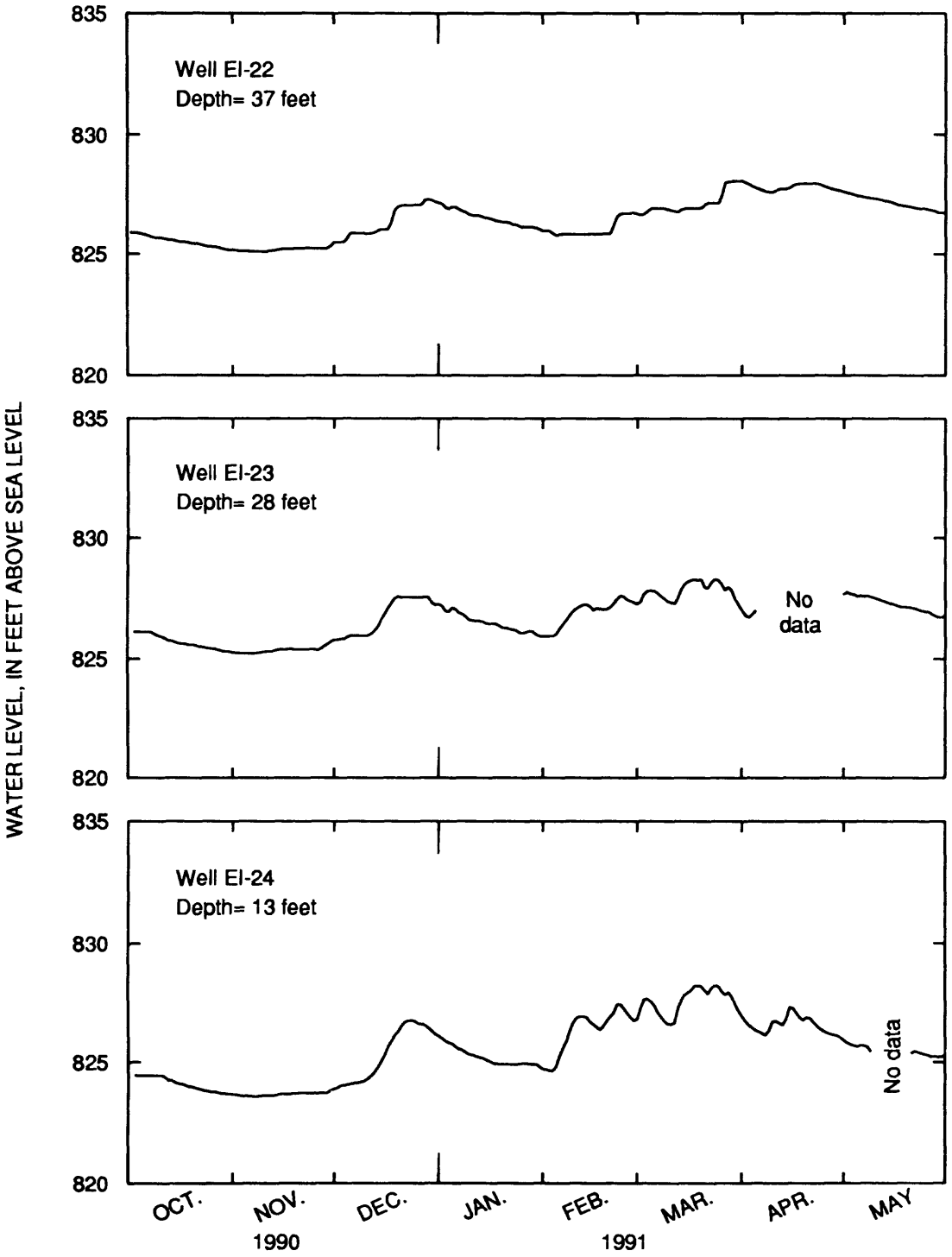

Figure 4. Daily mean water levels in continuously monitored observation wells, October 1990-May 1991--Continued

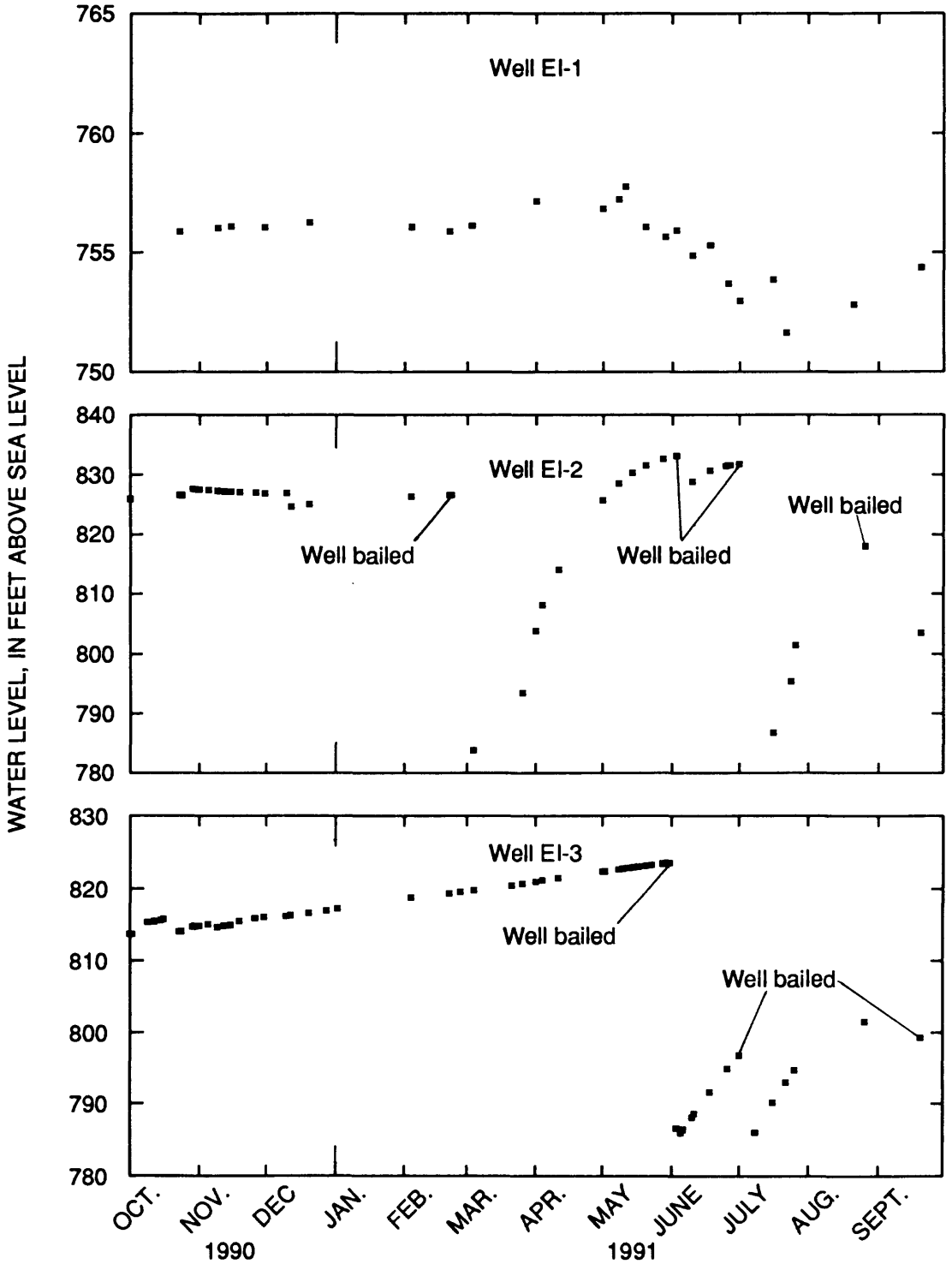

Figure 5. Water levels in observation wells measured intermittently, water year 1991.

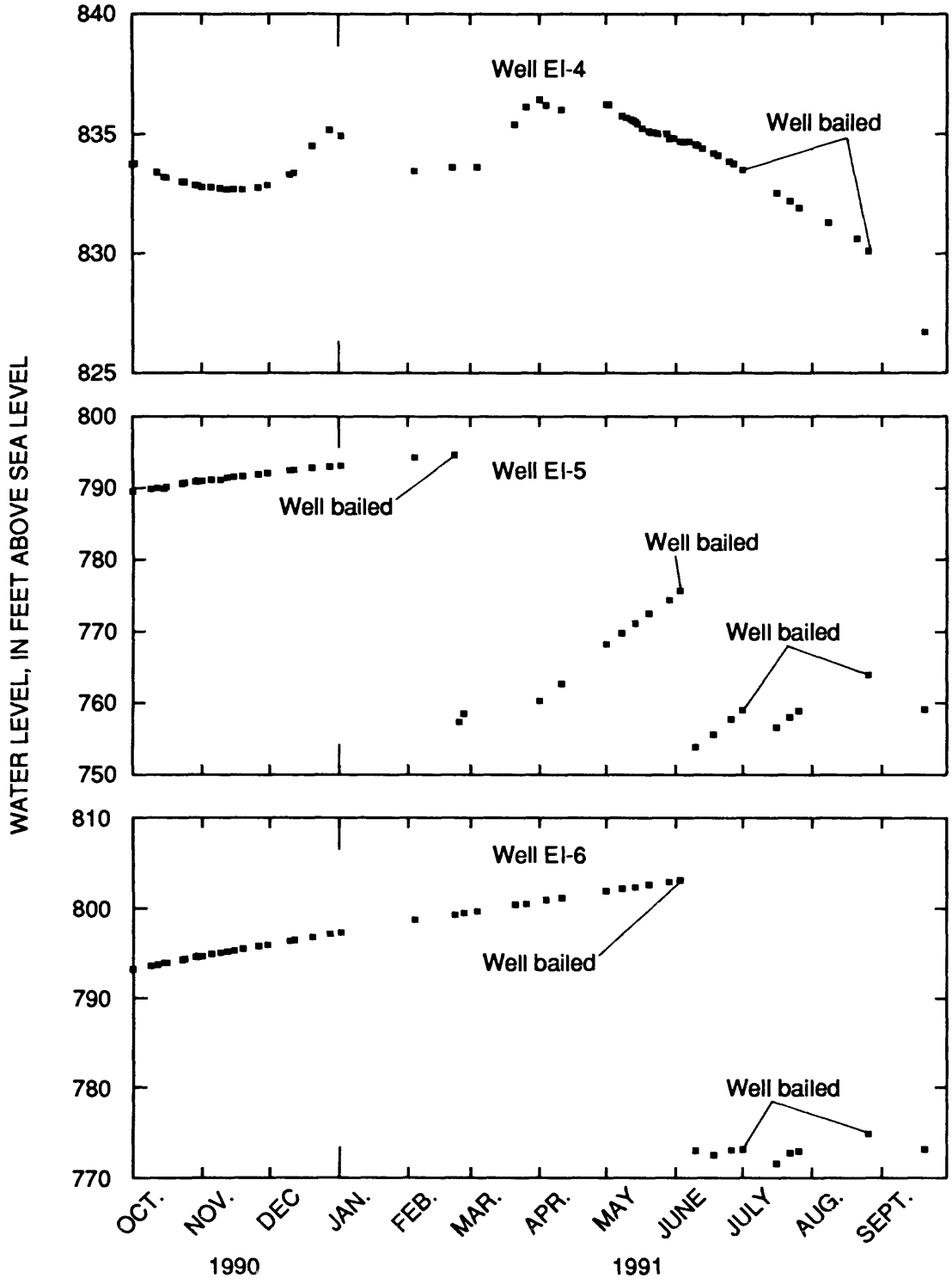

Figure 5. Water levels in observation wells measured intermittently, water year 1991--Continued.

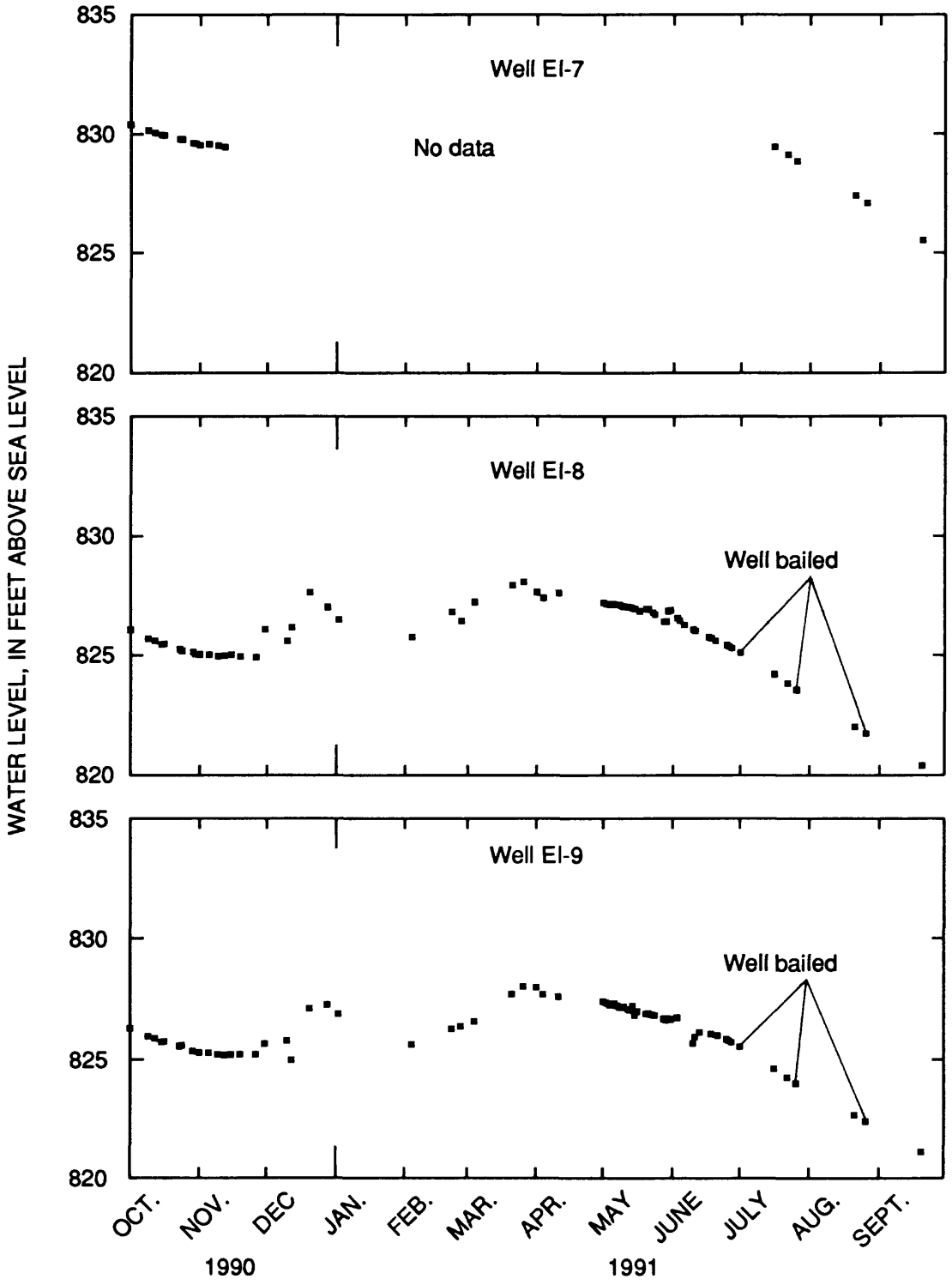

Figure 5. Water levels in observation wells measured intermittently, water year 1991--Continued.

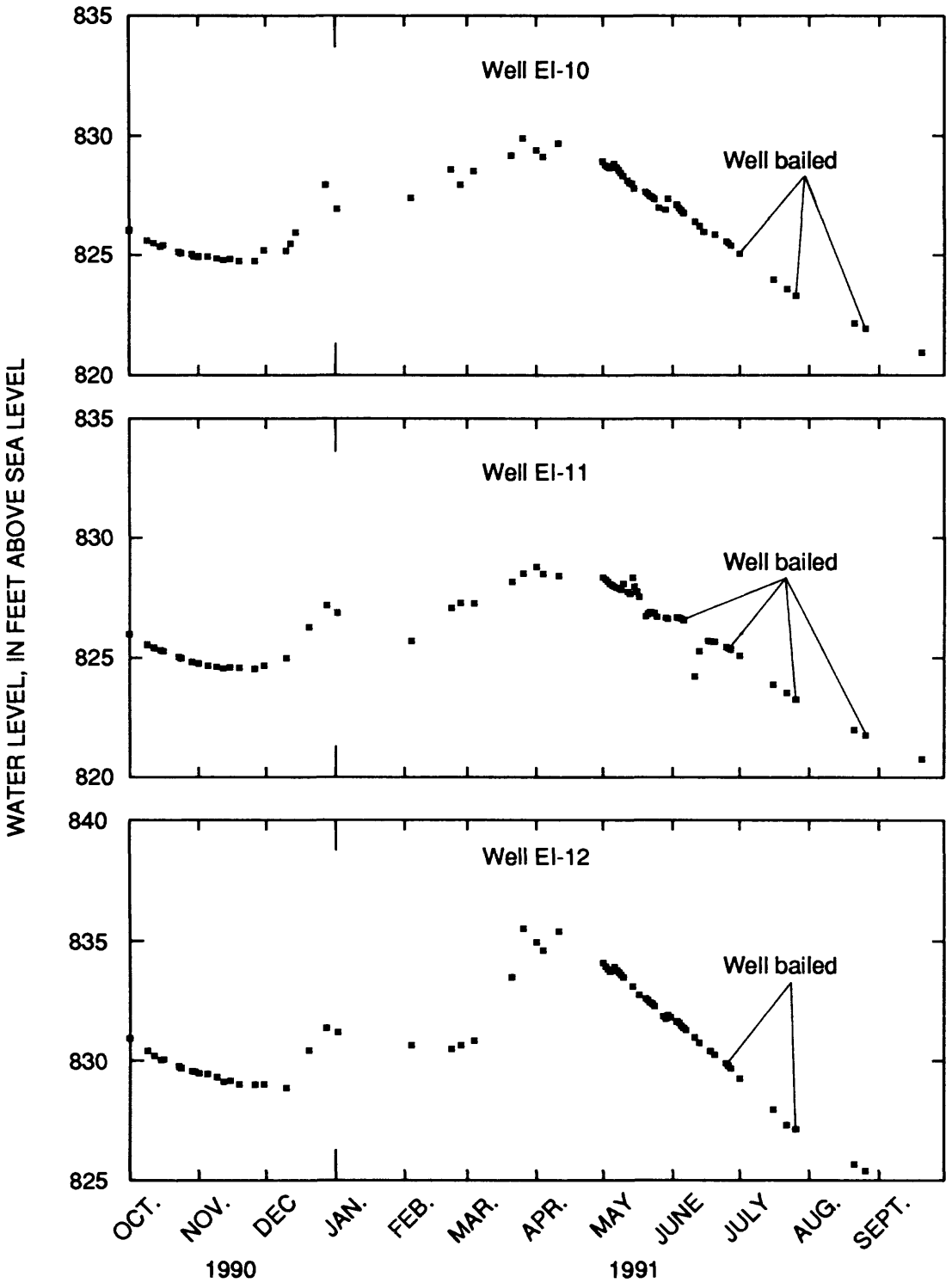

Figure 5. Water levels in observation wells measured intermittently, water year 1991--Continued.

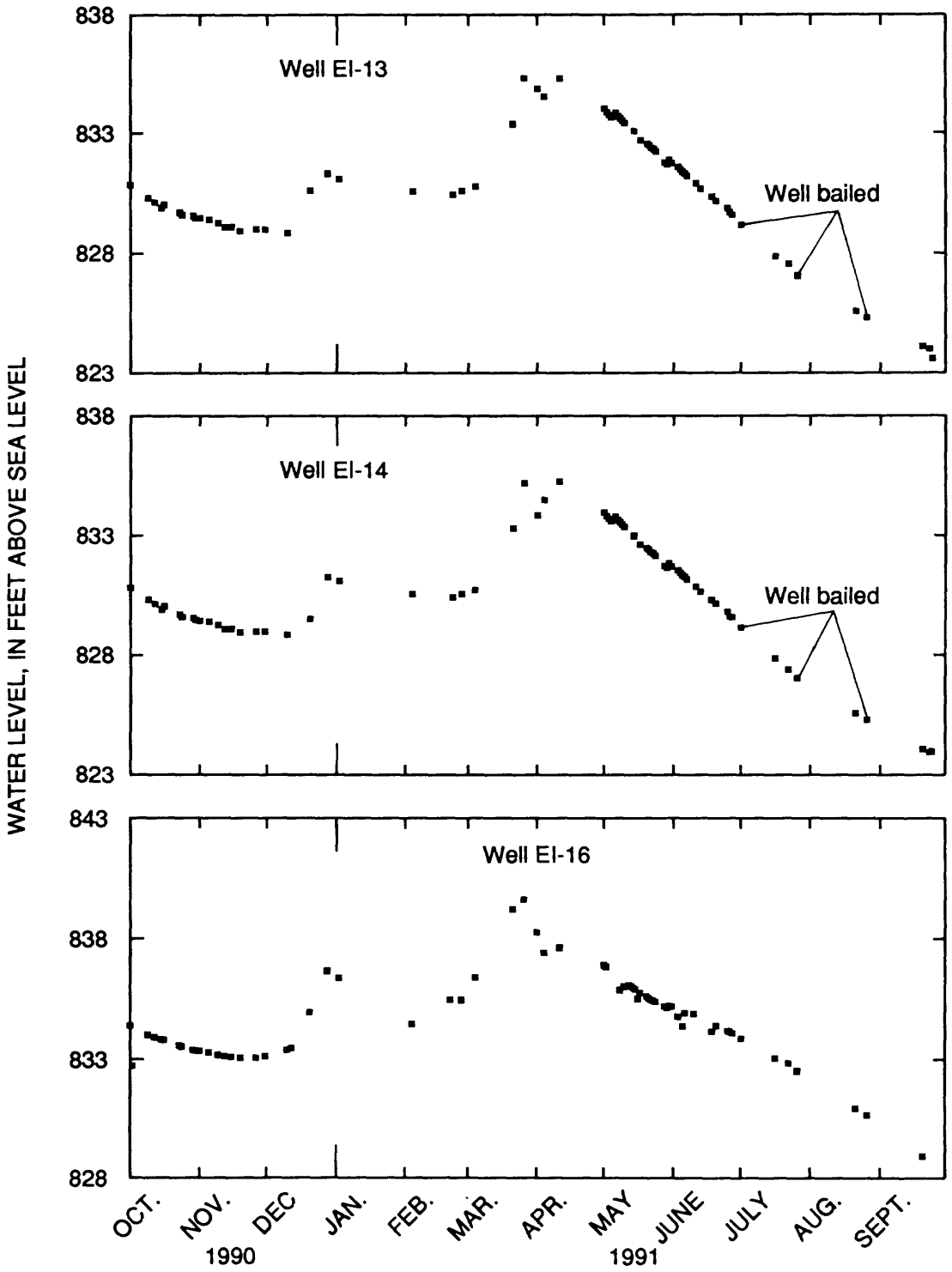

Figure 5. Water levels in observation wells measured intermittently, water year 1991--Continued.

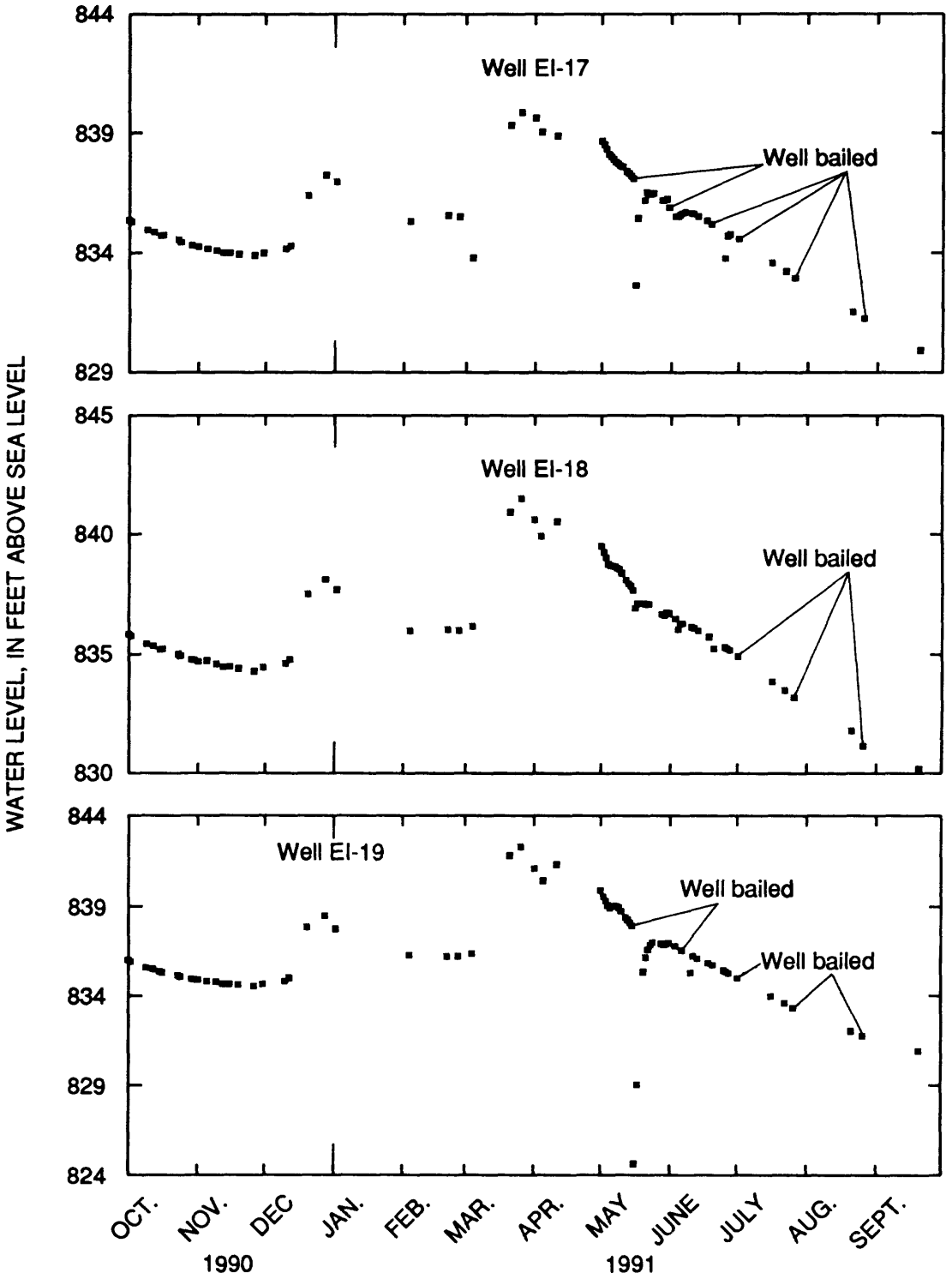

Figure 5. Water levels in observation wells measured intermittently, water year 1991--Continued.

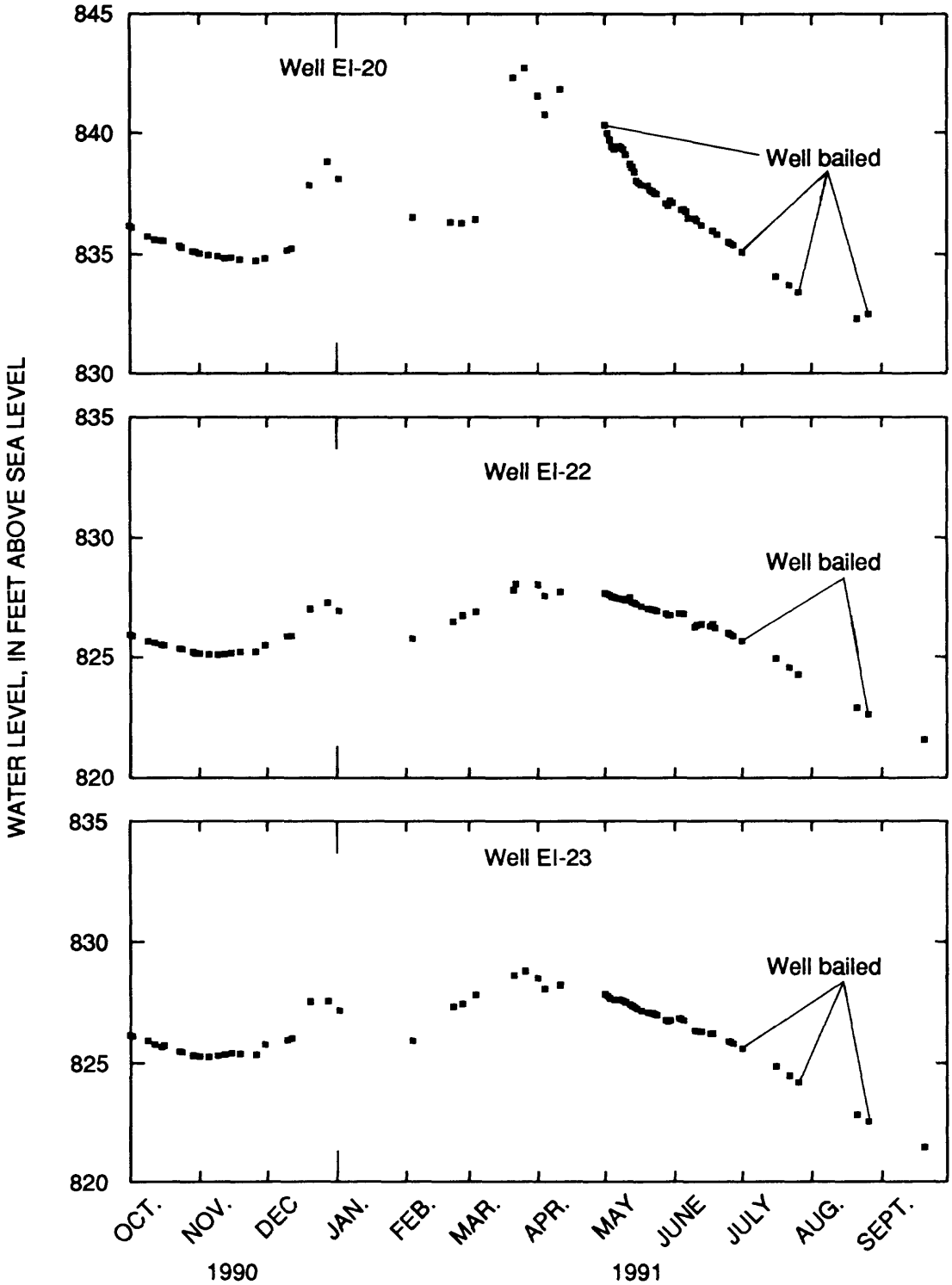

Figure 5. Water levels in observation wells measured intermittently, water year 1991--Continued.

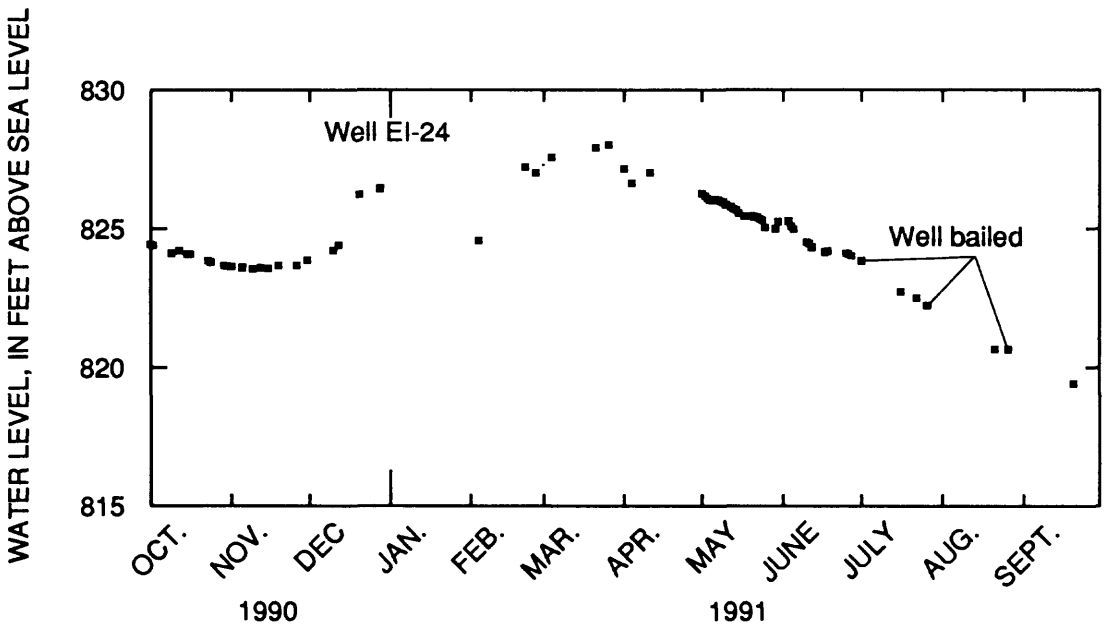

Figure 5. Water levels in observation wells measured intermittently, water year 1991--Continued.

Pressure Transducers and Thermistors

Daily mean water levels and water temperatures collected from the pressure transducers and thermistors in borehole EI-26 at the upgradient south site (fig. 2) are displayed graphically in figure 6 and are listed in table 6. Data for the vibrating-wire transducers has been corrected for atmospheric pressure. Daily mean water levels and water temperatures collected in borehole EI-25 at the downgradient north site (fig. 2) are displayed graphically in figure 7 and are listed in table 7. Transducer H-9 buried in borehole EI-26 at the south site had water levels below the sensor elevation of 832 feet from August 16, 1991, through September 26, 1991; thus, that data were deleted because it was not considered to be representative of true water levels. Water temperatures measured by sensor H-9 for the same time period were also deleted.

Water Quality

Daily mean water temperatures and median pH values for water in observation well EI-28 are displayed graphically in figure 8 and are listed in table 8. Daily mean water temperatures in the observation well for water year 1991 ranged from a low of 7.3 degrees Celsius on April 25, 1991, to a high of 14.9 degrees Celsius on October 1, 1990. Daily median pH values for water in the observation well for the 1991 water year ranged from 6.9 to 7.5 standard units. Missing data are due to equipment malfunction.

Specific-conductance values for water in observation well EI-28 increased from 768 µS/cm (microsiemens per centimeter at 25 degrees Celsius) during February 1991 to more than 1,500 µS/cm during late August 1991. To remove any bacteria that may have accumulated in observation well EI-28, chlorine was added to the water twice during late August and early September and flushed repeatedly to remove the chlorine. In mid-September, specific-conductance values returned to about 750 µS/cm and remained almost constant to the end of the month. Biologic activity might have been the reason for the increasing specific-conductance values. Because biologic activity may have changed the quality of water in the well, specific-conductance data for water from observation well EI-28 were omitted from this report because it was not considered representative of pre-Illinoian till.

Concentrations of selected herbicides and herbicide metabolites, selected nitrogen and phosphorous species, and major ions detected in rainfall and water samples from observation

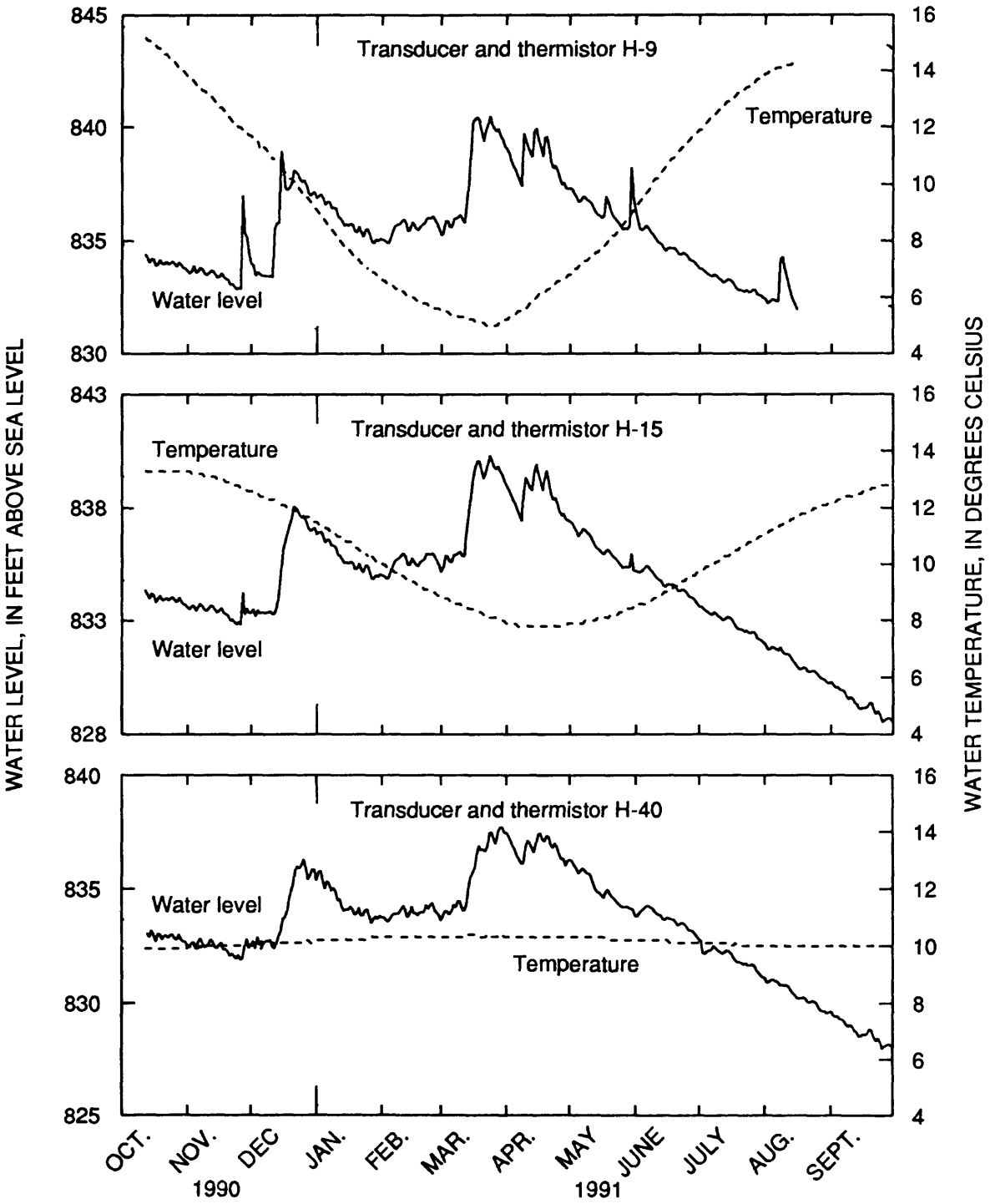

Figure 6. Daily mean water levels and water temperatures for pressure transducers and thermistors in borehole EI-26 at south site, water year 1991.

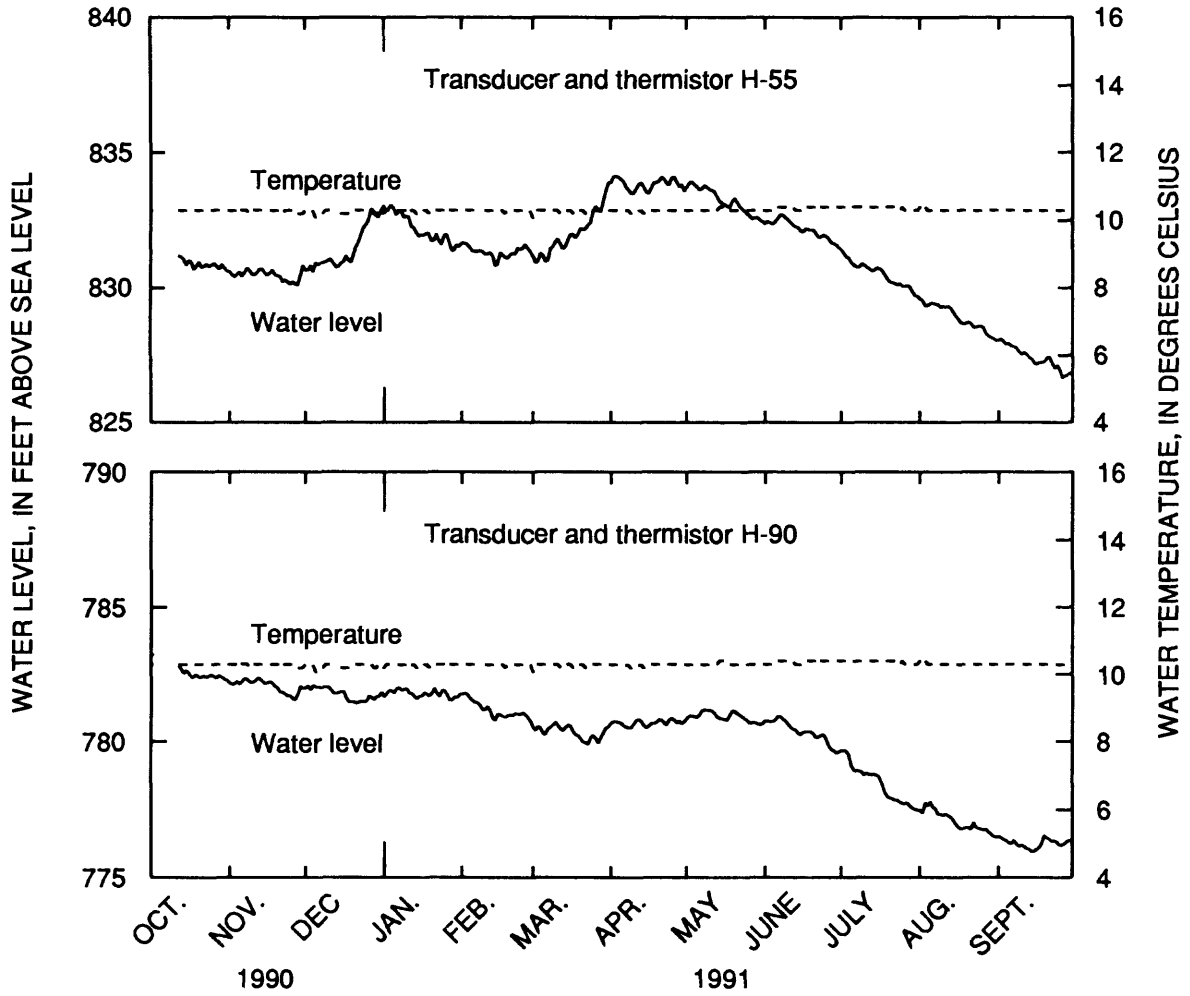

Figure 6. Daily mean water levels and water temperatures for pressure transducers and thermistors in borehole EI-26 at south site, water year 1991--Continued

wells sampled periodically during May-August 1991 are listed in table 9. Herbicide concentrations in rainfall sampled during May 1991 ranged from 0.05 to 1.3 µg/L (micrograms per liter). Herbicides detected in the largest concentrations included alachlor, atrazine, and metolachlor. Selected herbicides and herbicide metabolites measured in water from the observation wells had concentrations less than detectable levels, except for water from well EI-5, which had a metribuzin concentration of 0.10 µg/L. Nutrient concentrations measured in water from observation wells were less than 2.8 mg/L (milligrams per liter). Nutrient samples having dissolved concentrations greater than total concentrations is due to analytical variability. Trace metals detected in water samples from observation wells included iron and manganese. Iron concentrations ranged from 3 to 1,400 µg/L. Manganese concentrations ranged from 2 to 2,800 µg/L.

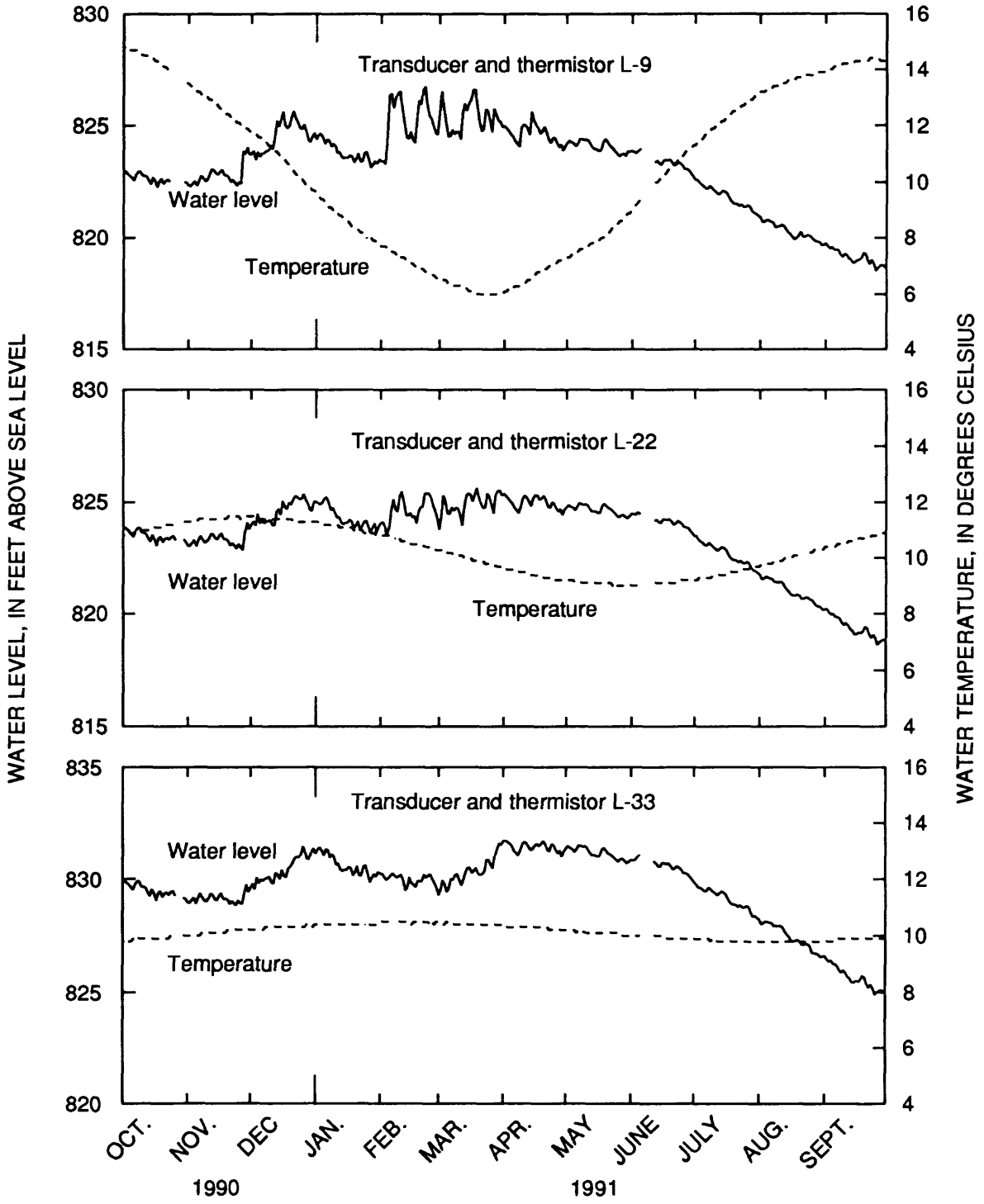

Figure 7. Daily mean water levels and water temperatures for pressure transducers and thermistors in borehole EI-25 at north site, water year 1991.

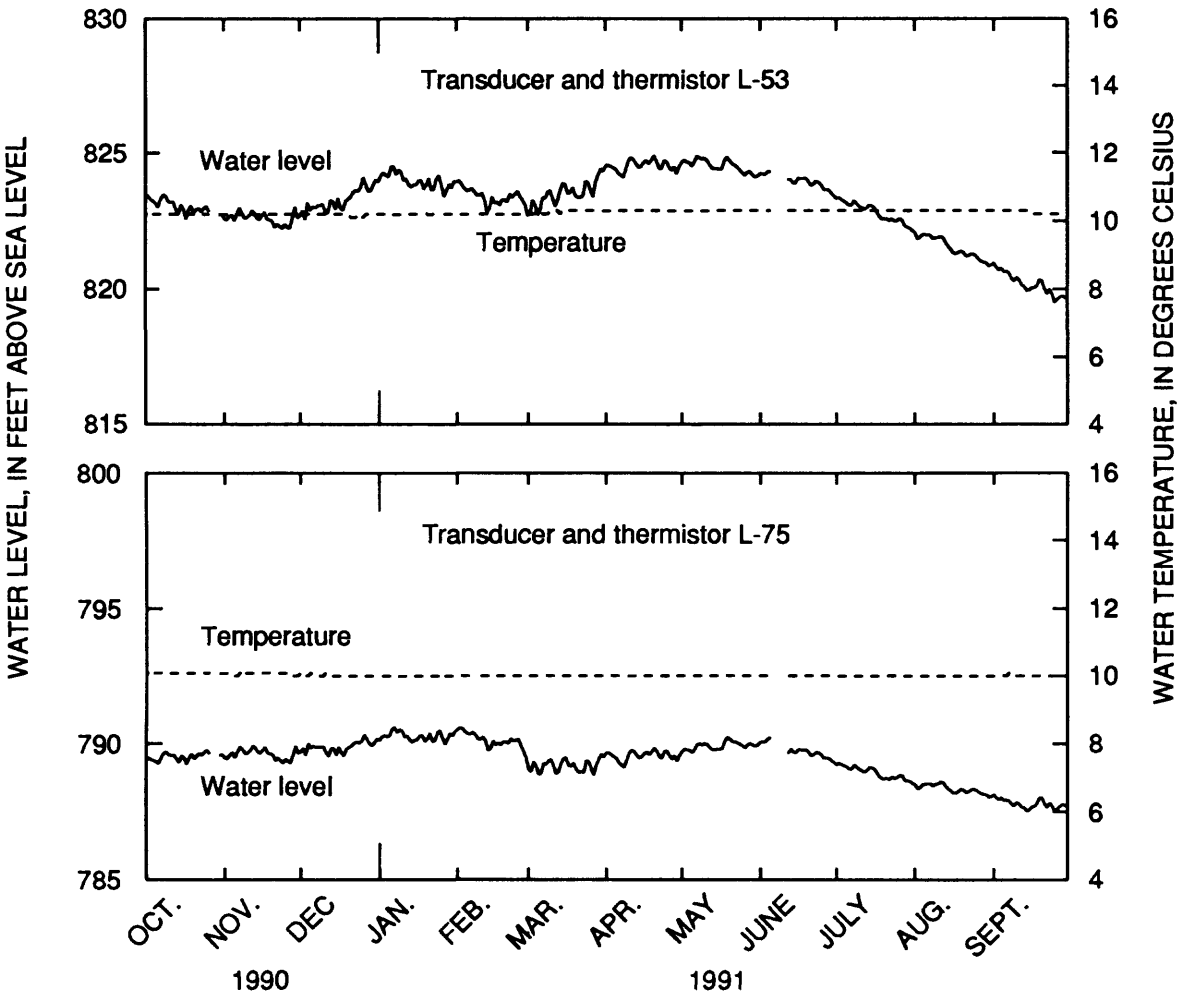

Figure 7. Daily mean water levels and water temperatures for pressure transducers and thermistors in borehole EI-25 at north site, water year 1991--Continued.

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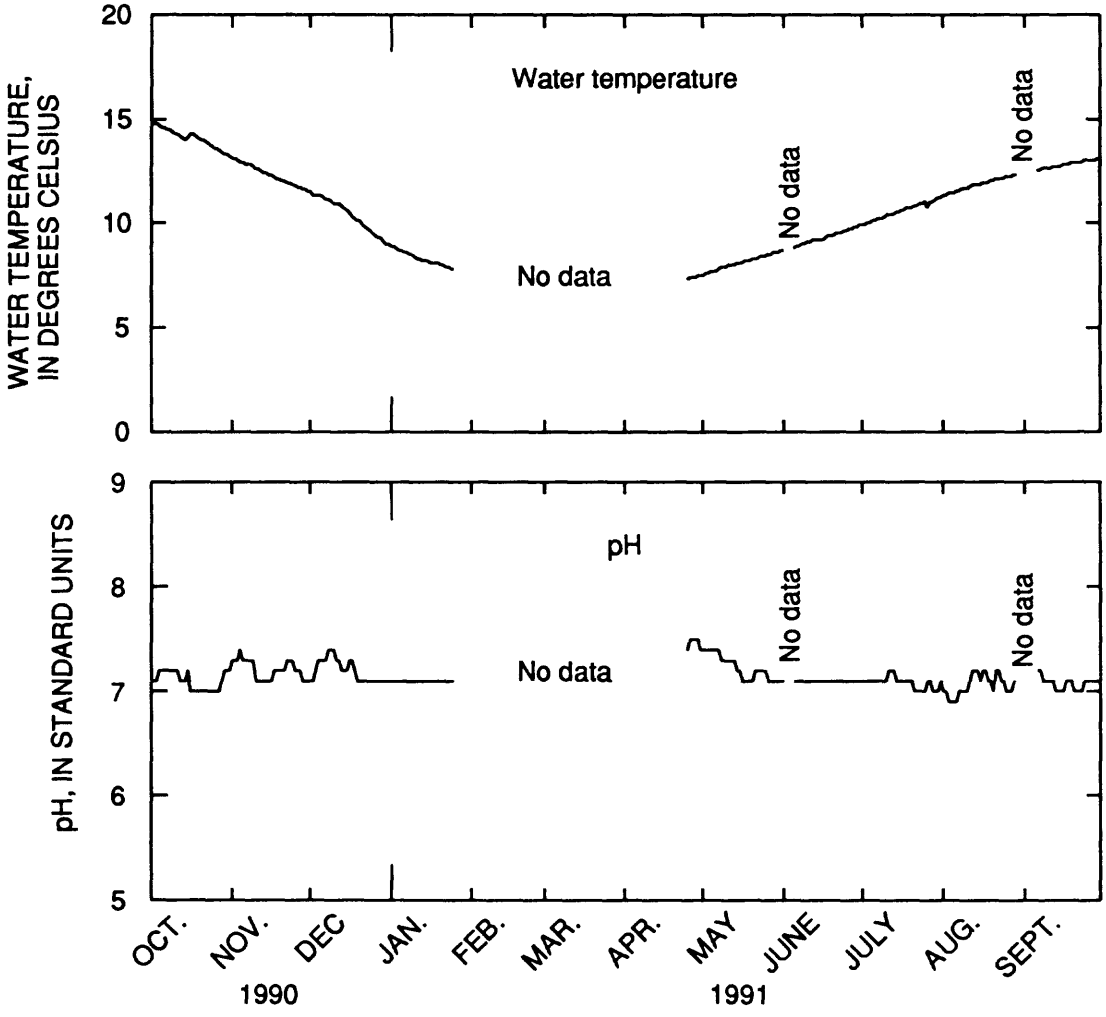

Figure 8. Daily mean water temperatures and median pH values for water in observation well El-26, water year 1991.

HYDROLOGIC DATA

Table 1. *Daily rainfall, mean daily barometric pressure, and maximum and minimum daily air temperature, water year 1991*

[---, data not collected]

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
						Rainfall, in inches						
1	0.00	0.00	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00	0.00	0.00
2	.00	.00	.00	.01	.00	.40	.00	.00	.00	.00	.00	.05
3	.82	.50	.00	.00	.00	.00	.00	.05	.00	.00	.00	.18
4	---	.25	.00	.00	.00	.00	.04	.00	.00	.00	.00	.00
5	.00	.07	.00	.00	.00	.00	.00	.37	.00	.00	.00	.01
6	.00	.00	.00	.00	.00	.00	.00	.00	---	.03	.49	.00
7	.00	.00	.01	.00	.00	.00	.00	.00	---	.00	.29	.00
8	.20	.00	.00	.00	.01	.01	.54	.00	---	.00	1.14	.46
9	.02	.11	.00	.00	.00	.00	.27	.00	---	.00	.00	.01
10	.06	.00	.00	.00	.00	.00	.00	.00	---	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.02	.00	---	.00	.00	.07
12	.00	.00	.00	.00	.00	.62	.06	.00	---	.00	.00	.08
13	.00	.00	.00	.00	.00	.06	.15	.00	---	.00	.00	.00
14	.01	.00	.17	.00	.00	.01	.48	.00	.00	.00	.00	.00
15	.00	.00	.17	---	.00	.00	.00	.00	.05	.00	.00	.34
16	.00	.00	.00	---	.00	.02	.01	.03	.01	.00	.80	.01
17	.27	.00	.18	---	.00	.40	.01	.77	.00	.00	.01	.01
18	.04	.00	.01	.00	.22	.00	.07	.05	.00	.00	.00	.07
19	.00	.00	.01	.22	.00	.01	.20	.00	.00	.00	.00	.00
20	.08	.05	.00	.00	.00	.00	.00	.00	.00	.00	.05	.01
21	.04	.19	.00	---	.00	.02	.00	.07	.00	.00	.01	.00
22	.00	.00	.00	---	.00	.55	.12	.01	.00	.00	.00	.00
23	.00	.00	.00	---	.00	.31	.06	.15	.00	.00	.00	.00
24	.00	.00	.00	---	.00	.00	.00	.01	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.21	.05	.00	.00	.00	.00
26	.00	.17	.00	.00	.00	.15	.00	.17	.00	.00	.00	.00
27	.00	.78	.00	.00	.00	.82	.30	.00	.00	.00	.00	.01
28	.00	.00	---	.00	.00	.00	.17	.00	.00	.00	.00	.00
29	.00	.00	---	.00	---	.00	.03	.00	.00	.00	.06	.00
30	.00	.00	---	.00	---	.00	.00	.00	.00	.01	.39	.00
31	.00	---	---	.00	---	.00	---	.00	---	.00	.00	---
Total	1.54	2.12	.55	.23	.23	4.07	2.74	1.73	.06	.04	3.24	1.31
						Mean daily barometric pressure, in millimeters of mercury						
1	764	760	766	767	768	748	769	761	759	758	763	768
2	762	760	769	775	769	752	768	764	759	759	759	766
3	754	764	758	778	766	761	767	762	759	759	762	764
4	---	765	770	774	765	757	764	762	762	758	765	767
5	758	758	762	767	768	747	763	758	766	758	766	765

Table 1. *Daily rainfall, mean daily barometric pressure, and maximum and minimum daily air temperature, water year 1991--Continued*

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
	Mean daily barometric pressure, in millimeters of mercury--Continued											
6	756	766	766	775	769	751	758	761	---	757	766	766
7	764	771	764	776	771	762	757	766	---	758	766	766
8	768	767	765	768	767	760	754	766	---	763	762	763
9	768	762	765	773	764	765	758	765	---	763	764	761
10	764	763	766	772	767	767	766	767	---	761	766	765
11	764	767	759	763	768	759	769	766	---	761	768	765
12	764	772	758	765	761	753	767	762	---	759	768	761
13	759	770	768	759	750	756	762	759	---	762	766	761
14	756	765	766	758	753	764	758	759	757	766	763	758
15	764	763	758	---	766	768	759	760	757	767	762	759
16	760	768	766	---	759	768	762	759	762	767	760	762
17	753	770	757	---	757	761	764	760	763	763	759	763
18	762	763	754	765	756	761	761	766	764	761	761	766
19	764	764	761	757	762	762	762	769	765	760	764	773
20	758	762	762	761	762	754	766	767	763	761	764	773
21	763	756	764	---	762	751	763	764	760	762	762	767
22	764	759	767	---	769	750	756	764	762	761	763	763
23	763	756	768	---	765	750	755	762	766	765	766	768
24	767	753	766	---	768	761	763	761	765	764	767	765
25	768	759	769	773	770	760	762	758	764	765	767	759
26	764	753	777	765	765	751	757	756	761	768	765	762
27	764	752	772	756	761	745	753	760	762	768	764	765
28	771	764	---	760	756	756	757	762	763	764	765	768
29	765	772	---	766	---	762	750	759	761	764	765	768
30	764	762	---	764	---	767	757	755	759	764	764	766
31	764	---	---	770	---	764	---	756	---	763	765	---

	Oct.		Nov.		Dec.		Jan.		Feb.		Mar.	
	Maximum (max) and minimum (min) daily air temperature, in degrees Celsius											
Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	20.6	8.0	23.7	10.9	8.2	-3.9	-1.2	-7.1	4.6	-11.3	10.9	0.2
2	25.7	5.6	22.9	14.5	2.4	-6.8	-7.0	-18.7	8.0	-4.9	5.8	-4.7
3	20.1	13.0	14.1	2.3	-.6	-5.0	-11.2	-20.7	8.2	1.8	-.9	-8.3
4	---	---	3.1	.9	-5.2	-12.8	-6.5	-15.7	6.9	-1.1	4.5	-6.5
5	30.4	15.0	5.1	-.2	5.0	-10.9	-4.4	-14.9	7.4	-3.3	12.2	-.9
6	27.5	17.0	1.1	-1.0	1.3	-6.9	-11.0	-19.7	.4	-2.9	7.3	-4.7
7	16.7	9.0	-.2	-7.9	5.1	-7.4	-9.7	-19.5	5.4	-2.2	1.1	-8.1
8	9.0	4.1	.2	-9.5	8.3	-5.5	-1.6	-10.0	9.0	-4.1	10.6	-5.4
9	8.0	4.4	7.4	-.9	8.6	-2.8	-4.9	-16.6	8.0	-.7	3.7	-5.1
10	10.7	1.0	10.4	-2.8	4.2	-4.2	-3.0	-17.7	.2	-3.3	7.8	-6.5

Table 1. *Daily rainfall, mean daily barometric pressure, and maximum and minimum daily air temperature, water year 1991--Continued*

	Oct.		Nov.		Dec.		Jan.		Feb.		Mar.	
	Maximum (max) and minimum (min) daily air temperature, in degrees Celsius--Continued											
Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
11	17.9	-0.5	12.1	-4.5	8.3	-2.9	-2.2	-5.2	-2.0	-8.8	10.6	1.0
12	15.5	2.8	9.9	-2.6	6.6	-.6	-4.6	-9.1	3.0	-9.3	5.0	-1.5
13	19.3	-.1	10.1	-2.3	-.4	-8.2	-1.1	-6.8	1.5	-3.0	1.3	-3.5
14	16.8	7.4	22.8	1.3	.4	-8.7	2.3	-5.5	-.1	-16.9	3.2	-5.0
15	12.1	1.7	21.4	8.8	2.4	-1.9	---	---	-13.4	-20.9	4.3	-4.9
16	21.3	5.7	16.0	-.2	-.3	-2.0	---	---	3.6	-17.0	6.8	-.3
17	22.4	3.8	10.5	-3.4	1.4	-4.4	---	---	4.9	-5.7	3.2	1.5
18	8.1	-.7	10.4	2.4	-4.2	-8.9	-1.5	-8.5	1.9	.0	8.3	.0
19	12.7	-2.9	13.7	-.2	1.9	-4.1	6.2	-2.4	.7	-2.9	14.5	-1.1
20	18.0	7.1	14.3	4.7	4.6	-13.6	.4	-13.2	12.0	-4.1	20.5	.3
21	10.6	-.2	19.6	3.3	-13.5	-18.2	---	---	15.8	.9	21.3	8.2
22	14.6	-3.8	13.5	-.6	-18.3	-24.4	---	---	3.2	-4.7	17.7	6.7
23	16.1	2.5	9.2	2.0	-16.6	-23.3	---	---	2.2	-4.6	8.2	1.2
24	13.3	1.7	14.7	-1.7	-5.6	-18.7	---	---	.5	-9.3	12.9	.5
25	11.8	-2.2	7.6	-.4	-6.3	-21.3	-11.5	-19.3	-3.6	-13.1	19.7	2.6
26	17.8	-.4	19.6	.3	-12.0	-22.7	-6.6	-19.6	-1.6	-10.7	28.3	12.2
27	14.1	4.1	17.6	-2.0	-12.1	-15.5	-3.2	-12.9	3.6	-8.4	19.7	-.9
28	13.5	-3.0	.4	-5.9	---	---	-1.9	-8.7	9.3	-4.6	11.6	-3.3
29	21.9	2.5	5.8	-6.8	---	---	-8.9	-20.3	---	---	3.0	-5.1
30	23.2	10.8	12.5	.6	---	---	-9.8	-24.6	---	---	6.2	-6.8
31	24.3	5.4	---	---	---	---	-4.9	-18.1	---	---	13.0	1.5

	Apr.		May		June		July		Aug.		Sept.	
1	14.6	-1.2	14.8	5.6	25.9	18.4	34.0	22.7	35.4	13.9	27.6	13.0
2	15.9	2.8	18.4	3.6	29.8	18.2	33.3	18.5	36.7	18.8	29.4	17.1
3	18.8	5.6	13.4	5.5	29.5	19.7	24.6	18.3	26.6	19.2	26.7	16.0
4	18.4	9.7	20.1	8.3	23.0	14.5	27.9	18.8	25.5	16.4	24.7	9.6
5	27.1	8.9	14.4	5.0	19.2	12.3	33.9	15.3	20.0	14.6	26.2	8.2
6	29.9	12.9	8.4	4.2	---	---	34.6	20.0	20.4	15.9	31.7	10.3
7	25.6	13.2	18.4	2.0	---	---	33.4	21.5	30.4	18.8	32.6	16.0
8	27.2	13.8	22.9	10.6	---	---	27.7	16.6	25.4	17.9	25.6	18.9
9	13.8	1.9	25.1	10.1	---	---	24.7	17.2	26.0	14.9	30.7	21.6
10	12.9	-1.0	24.3	11.4	---	---	28.1	14.2	27.0	13.5	27.2	17.3
11	7.3	3.3	28.5	15.7	---	---	26.5	17.6	29.4	13.5	26.2	15.7
12	6.6	3.3	30.9	15.0	---	---	31.4	20.2	29.3	13.1	33.6	19.6
13	7.6	5.1	31.3	18.1	---	---	25.4	16.8	27.5	13.2	33.6	17.8
14	12.3	6.1	31.5	17.7	31.9	23.8	30.0	13.9	29.7	13.2	28.8	22.0
15	15.7	2.8	30.4	17.2	27.4	18.8	32.2	13.5	31.4	15.2	29.8	17.8

Table 1. *Daily rainfall, mean daily barometric pressure, and maximum and minimum daily air temperature, water year 1991--Continued*

	Apr.		May		June		July		Aug.		Sept.	
	Maximum (max) and minimum (min) daily air temperature, in degrees Celsius--Continued											
Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
16	15.5	3.6	25.1	16.8	26.2	14.9	33.9	15.5	27.1	19.0	21.9	13.0
17	18.4	3.5	28.5	12.0	28.6	13.9	36.4	19.9	26.7	17.5	25.8	8.2
18	13.0	6.8	11.8	9.0	31.2	14.8	36.4	20.1	27.0	16.7	14.1	4.9
19	9.9	6.9	19.7	8.9	31.0	16.7	37.4	20.6	22.3	13.9	11.6	.4
20	13.5	5.4	24.8	10.9	31.9	18.1	36.3	23.0	24.4	10.3	17.0	-3.1
21	15.9	1.0	28.1	17.7	31.1	18.2	36.8	25.0	31.3	15.5	20.8	-.2
22	17.2	2.4	30.0	19.1	20.9	15.7	36.3	24.8	30.1	17.5	18.6	7.7
23	8.1	.9	26.3	18.1	22.5	14.4	28.3	16.5	27.8	16.6	18.3	3.0
24	19.1	1.4	28.3	18.9	29.6	16.3	29.0	12.3	33.3	17.0	17.8	8.9
25	16.0	6.1	25.7	18.9	30.6	16.5	26.1	10.9	34.2	18.5	21.3	5.5
26	24.2	4.8	28.0	20.4	34.0	21.8	27.9	9.4	34.1	18.7	16.2	2.8
27	23.3	12.4	32.0	17.5	34.1	22.7	27.0	12.4	34.7	17.7	10.8	2.8
28	24.7	6.1	34.1	20.6	33.2	20.7	24.8	14.4	34.2	19.0	20.8	.2
29	24.4	10.8	33.1	18.4	35.8	22.5	25.7	14.6	28.9	20.6	28.7	7.1
30	15.6	7.6	29.2	18.0	35.5	22.4	30.3	11.5	30.9	20.0	23.1	8.1
31	---	---	27.1	18.2	---	---	33.7	16.1	28.5	17.2	---	---

Table 2. *Construction data for observation wells at the till hydrology site*

[Well-construction data from U.S. Geological Survey, Iowa City, Iowa, and Iowa Department of Natural Resources, Geological Survey Bureau, Iowa City, Iowa]

Local number (fig. 2)	Station identification number	Land-surface elevation (feet above sea level)	Well depth (feet)	Screened interval (feet)	Measuring-point elevation (feet above sea level)	Aquifer type
			South site			
EI-1	415219091400201	840	105	102-105	841.60	Silurian bedrock
EI-2	415219091400202	841	93	90-93	843.62	Unconsolidated deposits
EI-3	415219091400203	842	60	57-60	844.19	Do.
EI-4	415219091400204	842	53	50-53	844.62	Do.
EI-16	415219091400205	841	48	45-48	843.82	Do.
EI-17	415219091400206	843	41	38-41	844.63	Do.
EI-18	415219091400207	843	33	30-33	845.54	Do.
EI-19	415219091400208	843	28	25-28	846.10	Do.
EI-20	415219091400212	843	16	13-16	846.52	Do.
			North site			
EI-5	415216091400201	828	78	75-78	830.12	Do.
EI-6	415216091400202	828	62	59-62	831.48	Do.
EI-7	415216091400203	829	41	38-41	831.59	Do.
EI-22	415216091400204	829	37	34-37	831.83	Do.
EI-23	415216091400205	830	28	25-28	831.63	Do.
EI-24	415216091400206	830	13	10-13	831.93	Do.
			West site			
EI-12	415217091400203	837	15	12-15	839.04	Do.
EI-13	415217091400204	837	24	21-24	839.15	Do.
EI-14	415217091400205	837	35	32-35	838.84	Do.
			Northwest site			
EI-10	415217091400207	832	15	12-15	834.01	Do.
EI-11	415217091400208	831	36	33-36	833.45	Do.
			East site			
EI-8	415217091400201	830	16	13-16	831.90	Do.
EI-9	415217091400202	830	35	32-35	832.26	Do.

Table 3. *Daily mean water levels in continuously monitored observation wells, October 1990-May 1991*

[Values are in feet above sea level; ---, data not collected]

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Well EI-3 (Land-surface elevation 842 feet above sea level)												
1	---	816.37	816.49	816.99	818.59	---	---	---	---	---	---	---
2	---	816.38	816.49	817.11	818.63	---	---	---	---	---	---	---
3	---	816.38	816.49	817.23	818.67	---	---	---	---	---	---	---
4	---	816.38	816.49	817.23	---	---	---	---	---	---	---	---
5	---	816.39	816.24	817.23	---	---	---	---	---	---	---	---
6	---	816.40	815.91	817.23	---	---	---	---	---	---	---	---
7	---	816.40	815.91	817.23	---	---	---	---	---	---	---	---
8	---	816.40	815.91	817.23	---	---	---	---	---	---	---	---
9	---	816.41	815.91	817.23	---	---	---	---	---	---	---	---
10	---	816.42	816.04	817.23	---	---	---	---	---	---	---	---
11	---	816.42	816.15	817.23	---	---	---	---	---	---	---	---
12	---	816.42	816.21	817.23	---	---	---	---	---	---	---	---
13	---	816.43	816.28	817.24	---	---	---	---	---	---	---	---
14	---	816.46	816.32	817.24	---	---	---	---	---	---	---	---
15	---	816.46	816.37	817.24	---	---	---	---	---	---	---	---
16	---	816.47	816.41	817.24	---	---	---	---	---	---	---	---
17	815.70	816.47	816.46	817.24	---	---	---	---	---	---	---	---
18	815.70	816.47	816.51	817.24	---	---	---	---	---	---	---	---
19	815.70	816.47	816.56	817.24	---	---	---	---	---	---	---	---
20	815.70	816.47	816.61	817.25	---	---	---	---	---	---	---	---
21	815.70	816.47	816.63	817.25	---	---	---	---	---	---	---	---
22	815.70	816.47	816.63	817.25	---	---	---	---	---	---	---	---
23	815.91	816.47	816.62	817.25	---	---	---	---	---	---	---	---
24	816.23	816.47	816.62	817.25	---	---	---	---	---	---	---	---
25	816.36	816.47	816.61	817.89	---	---	---	---	---	---	---	---
26	816.36	816.47	816.61	818.34	---	---	---	---	---	---	---	---
27	816.36	816.48	816.61	818.39	---	---	---	---	---	---	---	---
28	816.36	816.48	816.78	818.43	---	---	---	---	---	---	---	---
29	816.36	816.48	817.00	818.46	---	---	---	---	---	---	---	---
30	816.37	816.48	817.00	818.51	---	---	---	---	---	---	---	---
31	816.37	---	817.00	818.55	---	---	---	---	---	---	---	---
Well EI-4 (Land-surface elevation 842 feet above sea level)												
1	833.79	832.81	832.91	835.05	833.65	833.70	836.45	836.27	---	---	---	---
2	833.73	832.79	832.94	834.96	833.60	833.77	836.43	836.21	---	---	---	---
3	833.72	832.77	833.00	834.91	833.57	833.77	836.41	836.16	---	---	---	---
4	833.71	832.77	833.06	834.84	833.51	833.80	836.37	836.09	---	---	---	---
5	833.67	832.79	833.18	834.79	833.46	833.87	836.31	836.04	---	---	---	---
6	833.62	832.78	833.25	834.72	833.45	833.92	836.27	835.94	---	---	---	---
7	833.55	832.77	833.27	834.65	833.45	833.92	836.23	835.85	---	---	---	---
8	833.49	832.76	833.29	834.60	833.45	833.96	836.19	835.80	---	---	---	---
9	833.47	832.75	833.31	834.53	833.45	833.98	836.10	835.78	---	---	---	---
10	833.57	832.75	833.32	834.46	833.46	834.00	836.04	835.74	---	---	---	---

Table 3. *Daily mean water levels in continuously monitored observation wells, October 1990-May 1991*--Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
						Well EI-4--Continued						
11	833.44	832.74	833.35	834.44	833.47	834.03	836.04	835.71	---	---	---	---
12	833.35	832.72	833.40	834.39	833.50	834.09	836.08	835.67	---	---	---	---
13	833.32	832.71	833.40	834.34	833.57	834.14	836.12	835.61	---	---	---	---
14	833.31	832.71	833.47	834.30	833.61	834.19	836.15	835.55	---	---	---	---
15	833.25	832.71	833.61	834.27	833.62	834.28	836.19	835.47	---	---	---	---
16	833.21	832.72	833.69	834.24	833.62	834.40	836.28	835.37	---	---	---	---
17	833.21	832.71	833.88	834.24	833.63	834.59	836.36	835.29	---	---	---	---
18	833.20	832.71	834.07	834.22	833.64	834.78	836.42	835.25	---	---	---	---
19	833.16	832.72	834.13	834.15	833.65	834.97	836.43	835.20	---	---	---	---
20	833.15	832.72	834.33	834.06	833.65	835.19	836.42	835.14	---	---	---	---
21	833.12	832.76	834.53	834.05	833.65	835.40	836.44	835.10	---	---	---	---
22	833.09	832.77	834.53	834.05	833.64	835.57	836.48	835.08	---	---	---	---
23	833.05	832.78	834.53	834.03	833.64	835.73	836.51	835.07	---	---	---	---
24	833.01	832.79	834.53	834.02	833.65	835.83	836.51	835.05	---	---	---	---
25	832.99	832.79	834.53	833.92	833.64	835.96	836.49	835.04	---	---	---	---
26	832.97	832.79	834.53	833.82	833.65	836.10	836.47	835.02	---	---	---	---
27	832.95	832.84	834.90	833.82	833.65	836.25	836.45	834.95	---	---	---	---
28	832.90	832.87	835.19	833.79	833.66	836.30	836.38	834.89	---	---	---	---
29	832.87	832.86	835.19	833.75	---	836.37	836.36	834.85	---	---	---	---
30	832.84	832.88	835.16	833.72	---	836.42	836.31	---	---	---	---	---
31	832.82	---	835.11	833.68	---	836.45	---	---	---	---	---	---
						Well EI-16 (Land-surface elevation 841 feet above sea level)						
1	838.01	833.33	833.16	836.41	834.56	836.73	838.30	837.00	---	---	---	---
2	833.82	833.31	833.17	836.32	834.55	---	837.98	836.91	---	---	---	---
3	833.42	833.30	833.22	836.13	834.51	837.43	837.74	836.84	---	---	---	---
4	833.75	833.29	833.29	836.09	834.49	836.39	837.56	836.76	---	---	---	---
5	833.91	833.28	833.31	836.14	834.91	835.89	837.42	836.69	---	---	---	---
6	833.98	833.28	833.34	836.04	835.63	835.65	837.29	836.64	---	---	---	---
7	834.00	833.26	833.36	835.91	835.96	835.49	837.19	836.57	---	---	---	---
8	834.00	833.24	833.38	835.87	836.41	835.40	837.10	836.47	---	---	---	---
9	833.99	833.22	833.40	835.80	---	835.33	837.67	836.40	---	---	---	---
10	834.06	833.21	833.42	835.70	836.59	835.27	838.01	836.32	---	---	---	---
11	833.99	833.20	833.43	835.69	836.22	835.23	837.72	836.27	---	---	---	---
12	833.94	833.18	833.48	835.64	835.76	836.14	837.51	836.21	---	---	---	---
13	833.91	833.16	833.51	835.58	835.59	837.96	837.37	836.15	---	---	---	---
14	833.89	833.14	833.57	835.53	835.52	836.99	838.39	836.09	---	---	---	---
15	833.85	833.13	833.69	835.48	835.43	836.82	839.39	836.03	---	---	---	---
16	833.80	833.12	833.83	835.40	835.34	838.26	838.98	835.98	---	---	---	---
17	833.78	833.10	834.05	835.32	835.33	838.28	838.58	835.90	---	---	---	---
18	833.76	833.10	834.35	835.23	835.29	838.28	838.20	835.86	---	---	---	---
19	833.72	833.09	834.65	835.22	835.25	838.28	838.06	835.80	---	---	---	---
20	833.69	833.09	834.93	835.22	835.26	838.28	838.01	835.73	---	---	---	---

Table 3. *Daily mean water levels in continuously monitored observation wells, October 1990-May 1991*--Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
						Well EI-16--Continued						
21	833.67	833.09	835.04	835.21	835.45	838.80	837.85	---	---	---	---	---
22	833.63	833.09	835.04	835.21	835.68	839.24	837.72	---	---	---	---	---
23	833.59	833.09	835.04	835.21	835.68	839.67	837.62	---	---	---	---	---
24	833.55	833.09	835.44	835.21	835.64	839.70	837.53	---	---	---	---	---
25	833.52	833.09	835.91	835.02	835.56	839.55	837.43	---	---	---	---	---
26	833.50	833.08	835.98	834.82	835.47	839.57	837.35	---	---	---	---	---
27	833.48	833.12	836.10	834.81	835.43	839.84	837.28	---	---	---	---	---
28	833.44	833.14	836.58	834.81	835.36	839.70	837.21	---	---	---	---	---
29	833.41	833.14	836.64	834.73	---	839.24	837.14	---	---	---	---	---
30	833.37	833.15	836.48	834.63	---	838.85	837.08	---	---	---	---	---
31	833.35	---	836.41	834.57	---	838.65	---	---	---	---	---	---
						Well EI-17 (Land-surface elevation 843 feet above sea level)						
1	---	834.30	834.04	837.13	835.35	835.48	839.66	838.79	---	---	---	---
2	---	834.27	834.04	836.93	835.29	835.61	839.50	839.04	---	---	---	---
3	---	834.24	834.10	836.92	835.27	835.65	839.34	838.39	---	---	---	---
4	---	834.20	834.13	836.78	835.28	836.23	839.19	838.34	---	---	---	---
5	---	834.19	834.14	836.57	835.29	839.71	839.06	838.12	---	---	---	---
6	---	834.18	834.15	836.51	835.29	839.74	838.96	837.94	---	---	---	---
7	---	834.15	834.16	836.48	835.28	839.74	838.86	837.85	---	---	---	---
8	---	834.13	834.17	836.44	835.28	839.73	838.75	837.77	---	---	---	---
9	---	834.14	834.18	836.41	835.29	839.72	838.67	---	---	---	---	---
10	---	834.15	834.19	836.40	835.33	839.67	838.66	---	---	---	---	---
11	---	834.15	834.23	836.31	835.34	839.62	839.28	---	---	---	---	---
12	---	834.11	834.30	836.28	835.38	839.59	839.43	---	---	---	---	---
13	834.89	834.08	834.37	836.26	835.45	839.56	839.14	---	---	---	---	---
14	834.88	834.07	834.49	836.22	835.48	839.68	839.20	---	---	---	---	---
15	834.83	834.07	834.75	836.19	835.48	839.60	839.35	---	---	---	---	---
16	834.79	834.08	835.01	836.16	835.47	---	839.57	---	---	---	---	---
17	834.77	834.07	835.31	836.15	835.41	---	839.66	---	---	---	---	---
18	834.74	834.07	---	836.11	835.45	---	839.65	---	---	---	---	---
19	834.69	834.06	---	835.96	835.51	838.19	839.55	---	---	---	---	---
20	834.68	834.06	---	835.93	835.51	838.64	839.49	---	---	---	---	---
21	834.64	834.07	836.48	835.92	835.50	839.03	839.57	---	---	---	---	---
22	834.60	834.07	836.48	835.91	835.49	839.28	839.62	---	---	---	---	---
23	834.58	834.06	836.48	835.79	835.49	839.46	839.58	---	---	---	---	---
24	834.53	834.07	836.48	835.76	835.49	839.63	839.47	---	---	---	---	---
25	834.48	834.05	836.49	835.68	835.49	839.74	839.36	---	---	---	---	---
26	834.46	833.98	836.49	835.62	835.47	839.84	839.22	---	---	---	---	---
27	834.44	833.98	836.49	835.60	835.45	839.94	839.09	---	---	---	---	---
28	834.39	834.04	836.82	835.54	835.45	840.01	838.97	---	---	---	---	---
29	834.36	834.04	837.22	835.50	---	840.02	838.90	---	---	---	---	---
30	834.34	834.04	837.22	835.48	---	839.95	838.84	---	---	---	---	---
31	834.32	---	837.21	835.45	---	839.81	---	---	---	---	---	---

Table 3. *Daily mean water levels in continuously monitored observation wells, October 1990-May 1991*--Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Well EI-18 (Land-surface elevation 843 feet above sea level)												
1	---	834.78	834.53	838.18	836.10	836.17	840.98	839.89	---	---	---	---
2	---	834.76	834.53	837.92	836.06	836.30	840.78	839.61	---	---	---	---
3	---	834.70	834.61	837.69	836.04	836.25	840.59	839.37	---	---	---	---
4	---	834.68	834.62	837.68	836.04	836.89	840.44	839.19	---	---	---	---
5	---	834.70	834.63	837.68	836.04	840.75	840.31	839.05	---	---	---	---
6	---	834.69	834.66	837.68	836.02	840.74	840.21	839.04	---	---	---	---
7	---	834.65	834.66	837.68	836.00	840.65	840.08	839.03	---	---	---	---
8	---	834.63	834.67	837.68	836.00	840.54	839.93	838.99	---	---	---	---
9	---	834.65	834.67	837.68	836.04	840.42	840.07	838.92	---	---	---	---
10	---	834.66	834.68	837.67	836.05	840.30	840.71	838.77	---	---	---	---
11	---	834.63	834.75	837.44	836.05	840.25	840.88	838.64	---	---	---	---
12	---	834.58	834.83	837.02	836.07	840.20	840.86	838.51	---	---	---	---
13	835.41	834.56	834.91	836.96	836.16	840.40	840.85	838.38	---	---	---	---
14	835.40	834.55	835.08	836.94	836.26	839.79	841.13	---	---	---	---	---
15	835.30	834.55	835.52	836.92	836.25	---	841.51	---	---	---	---	---
16	835.26	834.52	835.78	836.91	836.10	---	841.53	---	---	---	---	---
17	835.26	834.46	836.33	836.89	836.07	839.04	841.36	---	---	---	---	---
18	835.21	834.47	---	836.88	836.16	839.86	841.13	---	---	---	---	---
19	835.15	834.47	---	836.80	836.17	840.41	841.06	---	---	---	---	---
20	835.15	834.47	---	836.71	836.13	840.73	841.31	---	---	---	---	---
21	835.13	834.47	837.58	836.71	836.10	841.25	841.35	---	---	---	---	---
22	835.07	834.45	837.58	836.71	836.10	841.33	841.22	---	---	---	---	---
23	835.05	834.45	837.58	836.60	836.09	841.66	841.05	---	---	---	---	---
24	835.00	834.45	837.58	836.58	836.09	841.74	840.92	---	---	---	---	---
25	834.97	834.41	837.58	836.45	836.09	841.75	840.70	---	---	---	---	---
26	834.96	834.39	837.58	836.33	836.06	841.79	840.49	---	---	---	---	---
27	834.94	834.46	837.86	836.33	836.08	841.92	840.39	---	---	---	---	---
28	834.86	834.49	838.29	836.33	836.08	841.88	840.33	---	---	---	---	---
29	834.84	834.43	838.20	836.33	---	841.68	840.28	---	---	---	---	---
30	834.83	834.49	838.21	836.32	---	841.43	840.18	---	---	---	---	---
31	834.80	---	838.21	836.22	---	841.25	---	---	---	---	---	---
Well EI-19 (Land-surface elevation 843 feet above sea level)												
1	---	834.87	834.70	838.31	836.35	836.39	841.12	839.92	---	---	---	---
2	---	834.84	834.67	837.82	836.35	836.44	840.92	839.60	---	---	---	---
3	---	834.79	834.78	837.66	836.34	836.38	840.72	839.38	---	---	---	---
4	---	834.76	834.78	837.60	836.33	837.19	840.56	839.19	---	---	---	---
5	---	835.31	834.80	837.64	836.30	841.69	840.44	839.05	---	---	---	---
6	---	835.65	834.83	837.49	836.28	841.51	840.36	839.08	---	---	---	---
7	---	835.62	834.83	837.38	836.27	841.24	840.19	839.12	---	---	---	---
8	---	835.60	834.85	837.38	836.26	841.04	840.01	839.08	---	---	---	---
9	---	835.61	834.85	837.34	836.29	840.87	840.42	839.01	---	---	---	---
10	---	835.62	834.85	837.25	836.29	840.73	841.29	838.82	---	---	---	---

Table 3. *Daily mean water levels in continuously monitored observation wells, October 1990-May 1991*--Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
						Well EI-19--Continued						
11	---	835.62	834.92	837.28	836.29	840.72	841.30	838.65	---	---	---	---
12	---	835.58	835.00	837.25	836.34	840.78	841.16	838.52	---	---	---	---
13	835.52	835.55	835.09	837.21	836.47	841.40	841.14	838.38	---	---	---	---
14	835.51	835.54	835.37	837.21	836.51	841.72	841.62	---	---	---	---	---
15	835.41	835.08	835.69	837.15	836.39	841.69	842.04	---	---	---	---	---
16	835.38	834.62	836.03	837.09	836.33	839.48	841.89	---	---	---	---	---
17	835.38	834.58	836.58	836.97	836.34	839.95	841.59	---	---	---	---	---
18	835.32	834.61	---	836.91	836.37	840.86	841.31	---	---	---	---	---
19	835.26	834.61	---	836.93	836.35	841.35	841.36	---	---	---	---	---
20	835.27	834.59	---	836.93	836.32	841.61	841.73	---	---	---	---	---
21	835.24	834.61	837.95	836.91	836.31	841.79	841.66	---	---	---	---	---
22	835.20	834.57	837.95	836.91	836.26	841.77	841.43	---	---	---	---	---
23	835.18	834.58	837.95	836.90	836.26	842.16	841.25	---	---	---	---	---
24	835.10	834.57	837.95	836.87	836.29	842.19	841.10	---	---	---	---	---
25	835.07	834.53	837.95	836.73	836.26	842.16	840.83	---	---	---	---	---
26	835.06	834.53	837.95	836.61	836.26	842.19	840.61	---	---	---	---	---
27	835.05	834.57	837.95	836.67	836.30	842.31	840.51	---	---	---	---	---
28	834.96	834.57	838.33	836.61	836.31	842.18	840.50	---	---	---	---	---
29	835.00	834.52	838.54	836.52	---	841.93	840.46	---	---	---	---	---
30	834.93	834.65	838.50	836.49	---	841.61	840.29	---	---	---	---	---
31	834.89	---	838.49	836.39	---	841.45	---	---	---	---	---	---
						Well EI-22 (Land-surface elevation 829 feet above sea level)						
1	---	825.17	825.50	827.15	825.98	826.68	828.06	827.62	---	---	---	---
2	825.91	825.15	825.50	827.11	825.98	826.64	828.00	827.58	---	---	---	---
3	825.90	825.14	825.50	826.96	825.98	826.68	827.93	827.53	---	---	---	---
4	825.89	825.14	825.50	826.90	825.88	826.80	827.85	827.49	---	---	---	---
5	825.86	825.13	825.68	826.96	825.79	826.91	827.79	827.44	---	---	---	---
6	825.83	825.12	825.88	826.96	825.81	826.93	827.73	827.42	---	---	---	---
7	825.79	825.12	825.88	826.88	825.83	826.93	827.68	827.39	---	---	---	---
8	825.74	825.12	825.88	826.81	825.84	826.93	827.63	827.37	---	---	---	---
9	825.70	825.12	825.88	826.76	825.84	826.92	827.61	827.35	---	---	---	---
10	825.68	825.12	825.87	826.67	825.84	826.86	827.60	827.33	---	---	---	---
11	825.67	825.12	825.86	826.63	825.84	826.82	827.67	827.31	---	---	---	---
12	825.63	825.13	825.87	826.63	825.84	826.79	827.72	827.28	---	---	---	---
13	825.61	825.15	825.91	826.62	825.84	826.76	827.73	827.23	---	---	---	---
14	825.60	825.17	825.97	826.57	825.84	826.87	827.74	827.20	---	---	---	---
15	825.57	825.20	826.03	826.52	825.85	826.91	827.78	827.16	---	---	---	---
16	825.53	825.22	826.03	826.49	825.85	826.92	827.89	827.11	---	---	---	---
17	825.51	825.22	826.03	826.45	825.84	826.92	827.94	827.06	---	---	---	---
18	825.51	825.22	826.32	826.40	825.84	826.92	827.96	827.04	---	---	---	---
19	825.49	825.23	826.84	826.37	825.85	826.92	827.96	827.02	---	---	---	---
20	825.46	825.24	826.99	826.35	825.85	826.95	827.96	827.00	---	---	---	---

Table 3. *Daily mean water levels in continuously monitored observation wells, October 1990-May 1991*--Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
					Well EI-22--Continued							
21	825.44	825.24	827.04	826.34	825.85	827.07	827.96	826.97	---	---	---	---
22	825.42	825.24	827.04	826.33	826.20	827.13	827.96	826.94	---	---	---	---
23	825.38	825.24	827.04	826.25	826.57	827.13	827.95	826.92	---	---	---	---
24	825.34	825.25	827.04	826.25	826.69	827.13	827.92	826.89	---	---	---	---
25	825.33	825.25	827.04	826.18	826.71	827.13	827.86	826.89	---	---	---	---
26	825.31	825.24	827.04	826.13	826.71	827.45	827.81	826.86	---	---	---	---
27	825.30	825.24	827.07	826.13	826.72	828.01	827.76	826.83	---	---	---	---
28	825.28	825.24	827.27	826.13	826.72	828.04	827.72	826.79	---	---	---	---
29	825.23	825.25	827.30	826.13	---	828.06	827.69	826.73	---	---	---	---
30	825.20	825.34	827.27	826.11	---	828.06	827.66	826.72	---	---	---	---
31	825.18	---	827.20	826.05	---	828.07	---	826.72	---	---	---	---
					Well EI-23 (Land-surface elevation 830 feet above sea level)							
1	---	825.28	825.80	827.28	825.95	827.28	827.02	827.69	---	---	---	---
2	---	825.26	825.81	827.21	825.96	827.37	826.81	827.78	---	---	---	---
3	826.13	825.24	825.84	827.00	825.96	827.68	826.72	827.71	---	---	---	---
4	826.13	825.23	825.85	826.97	825.96	827.82	826.86	827.68	---	---	---	---
5	826.12	825.23	825.92	827.14	826.03	827.84	827.01	827.59	---	---	---	---
6	826.12	825.23	825.98	827.06	826.26	827.83	---	827.63	---	---	---	---
7	826.12	825.24	825.98	826.92	826.44	827.74	---	827.60	---	---	---	---
8	826.12	825.24	825.98	826.87	826.61	827.62	---	827.62	---	---	---	---
9	826.04	825.26	825.98	826.77	826.81	827.51	---	827.58	---	---	---	---
10	825.97	825.29	825.97	826.63	827.00	827.39	---	827.54	---	---	---	---
11	825.94	825.31	825.98	826.61	827.10	827.34	---	827.49	---	---	---	---
12	825.86	825.31	826.05	826.59	827.19	827.29	---	827.44	---	---	---	---
13	825.77	825.33	826.18	826.59	827.26	827.49	---	827.39	---	---	---	---
14	825.76	825.37	826.36	826.57	827.27	827.85	---	827.34	---	---	---	---
15	825.71	825.40	826.65	826.50	827.18	828.09	---	827.29	---	---	---	---
16	825.66	825.41	826.88	826.47	827.04	828.20	---	827.25	---	---	---	---
17	825.64	825.41	827.14	826.46	827.12	828.27	---	827.19	---	---	---	---
18	825.64	825.42	827.35	826.46	827.08	828.30	---	827.16	---	---	---	---
19	825.59	825.41	827.52	826.39	827.05	828.27	---	827.16	---	---	---	---
20	825.59	825.41	827.60	826.30	827.07	828.30	---	827.15	---	---	---	---
21	825.58	825.41	827.56	826.30	827.15	827.97	---	827 13	---	---	---	---
22	825.53	825.41	827.58	826.26	827.30	827.94	---	827.10	---	---	---	---
23	825.50	825.41	827.58	826.23	827.48	828.17	---	827.05	---	---	---	---
24	825.47	825.41	827.58	826.20	827.61	828.30	---	827.00	---	---	---	---
25	825.44	825.41	827.57	826.10	827.60	828.27	---	826.98	---	---	---	---
26	825.43	825.37	827.56	826.08	827.47	828.10	---	826.95	---	---	---	---
27	825.42	825.42	827.55	826.12	827.41	827.85	---	826.86	---	---	---	---
28	825.37	825.54	827.58	826.15	827.36	827.99	---	826.79	---	---	---	---
29	825.33	825.62	827.58	826.14	---	827.83	---	826.74	---	---	---	---
30	825.31	825.73	827.33	826.02	---	827.48	---	826.74	---	---	---	---
31	825.31	---	827.26	825.96	---	827.23	---	826.80	---	---	---	---

Table 3. *Daily mean water levels in continuously monitored observation wells, October 1990-May 1991*--Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
					Well EI-24 (Land-surface elevation 830 feet above sea level)							
1	---	823.68	823.90	826.09	824.71	826.78	826.88	825.89	---	---	---	---
2	---	823.67	823.94	825.98	824.69	827.25	826.68	825.79	---	---	---	---
3	824.43	823.64	824.04	825.87	824.65	827.60	826.53	825.72	---	---	---	---
4	824.44	823.61	824.05	825.79	824.63	827.63	826.41	825.68	---	---	---	---
5	824.44	823.62	824.09	825.75	824.80	827.52	826.31	825.65	---	---	---	---
6	824.43	823.61	824.12	825.64	825.23	827.34	826.25	825.67	---	---	---	---
7	824.43	823.59	824.13	825.54	825.57	827.07	826.18	825.67	---	---	---	---
8	824.43	823.58	824.15	825.49	825.86	826.87	826.11	825.62	---	---	---	---
9	824.44	823.61	824.18	825.40	826.25	826.70	826.30	825.43	---	---	---	---
10	824.44	823.62	824.22	825.31	826.62	826.56	826.67	---	---	---	---	---
11	824.44	823.62	824.31	825.29	826.83	826.55	826.69	---	---	---	---	---
12	824.36	823.62	824.44	825.24	826.89	826.61	826.61	---	---	---	---	---
13	824.25	823.63	824.57	825.20	826.89	827.23	826.53	---	---	---	---	---
14	824.24	823.66	824.78	825.17	826.85	827.55	826.78	---	---	---	---	---
15	824.15	823.68	825.03	825.10	826.67	827.79	827.26	---	---	---	---	---
16	824.11	823.69	825.30	825.04	826.56	827.89	827.23	---	---	---	---	---
17	824.09	823.68	825.63	824.97	826.45	828.00	827.03	---	---	---	---	---
18	824.05	823.70	825.87	824.92	826.34	828.20	826.83	---	---	---	---	---
19	823.99	823.71	826.10	824.91	826.49	828.21	826.73	---	---	---	---	---
20	823.98	823.71	826.25	824.91	826.69	828.18	826.84	---	---	---	---	---
21	823.94	823.74	826.49	824.91	826.88	828.00	826.81	825.35	---	---	---	---
22	823.90	823.74	826.66	824.90	827.04	827.84	826.66	825.44	---	---	---	---
23	823.87	823.74	826.71	824.90	827.39	828.11	826.51	825.39	---	---	---	---
24	823.82	823.74	826.73	824.90	827.40	828.21	826.39	825.35	---	---	---	---
25	823.79	823.73	826.69	824.92	827.22	828.18	826.29	825.31	---	---	---	---
26	823.78	823.72	826.59	824.94	827.03	827.95	826.21	825.28	---	---	---	---
27	823.77	823.73	826.58	824.94	826.85	827.80	826.16	825.22	---	---	---	---
28	823.73	823.73	826.52	824.93	826.71	827.91	826.12	825.22	---	---	---	---
29	823.71	823.74	826.41	824.91	---	827.71	826.09	825.21	---	---	---	---
30	823.70	823.84	826.29	824.91	---	827.35	826.01	825.22	---	---	---	---
31	823.69	---	826.16	824.81	---	827.10	---	825.26	---	---	---	---

Table 4. *Water levels in observation wells measured intermittently, water year 1991*

[Values are in feet above sea level; *, date wells bailed; +, date slug removed from well following hydraulic-conductivity test]

Date	Water level	Date	Water level	Date	Water level	Date	Water level	Date	Water level	Date	Water level
Well EI-1 (Land-surface elevation 840 feet above sea level)											
Oct.23	755.91	Dec.20	756.27	Apr.01	757.18	May 20	756.10	June 18	755.31	July 22	751.64
Nov.09	756.06	Feb.04	756.08	May 01	756.85	29	755.67	26	753.70	Aug.21	752.82
15	756.11	21	755.91	08	757.24	June 03	755.94	July 01	752.97	Sept.20	754.37
30	756.08	Mar.03	756.14	11	757.77	10	754.88	16	753.85		
Well EI-2 (Land-surface elevation 841 feet above sea level)											
Oct.01	825.99	Nov.09	827.36	Dec.12	824.72	Apr.01	803.90	May 28	832.70	July 01	*831.85
23	826.61	12	827.26	20	825.10	04	808.21	June 03	*833.16	16	786.84
24	826.59	15	827.22	Feb.04	826.41	11	814.13	10	828.91	24	795.47
29	827.65	19	827.15	21	826.60	May 01	825.76	18	830.73	26	801.42
30	827.62	26	827.05	22	*826.61	08	828.62	25	831.51	Aug.26	*818.00
Nov.01	827.56	30	826.99	Mar.04	783.86	14	830.36	26	831.61	Sept.20	803.47
05	827.46	Dec.10	826.97	26	793.50	20	831.61	27	831.66		
Well EI-3 (Land-surface elevation 842 feet above sea level)											
Oct.01	813.64	Nov.05	814.98	Jan.02	817.22	May 02	822.42	May 23	823.30	June 26	794.85
02	813.66	09	814.62	Feb.04	818.80	08	822.68	28	823.47	July 01	*796.74
09	815.26	12	814.82	21	819.31	10	822.76	29	823.50	08	785.98
12	815.40	15	814.90	26	819.52	12	822.86	30	823.56	16	790.09
15	815.55	19	815.51	Mar.04	819.78	13	822.89	31	*823.59	22	792.91
16	815.70	26	815.85	21	820.48	14	822.93	June 03	786.58	26	794.63
23	814.02	30	816.02	26	820.71	15	822.97	05	785.92	Aug.26	801.49
24	814.07	Dec.10	816.11	Apr.01	820.97	17	823.05	06	786.38	Sept.20	*799.23
29	814.65	12	816.24	04	821.16	20	823.17	10	788.04		
30	814.75	20	816.60	11	821.44	21	823.22	11	788.57		
Nov.01	814.80	28	816.95	May 01	822.38	22	823.25	18	791.57		
Well EI-4 (Land-surface elevation 842 feet above sea level)											
Oct.01	833.74	Nov.12	832.67	Mar.04	833.61	May 14	835.51	June 03	834.68	June 27	833.74
02	833.76	15	832.68	21	835.40	15	835.43	04	834.66	July 01	*833.50
12	833.40	19	832.69	26	836.14	17	835.24	05	834.68	16	832.50
15	833.20	26	832.75	Apr.01	836.44	20	835.10	06	834.67	22	832.17
16	833.18	30	832.85	04	836.21	21	835.06	07	834.66	26	831.90
23	833.00	Dec.10	833.30	11	836.02	22	835.06	10	834.55	Aug.08	831.28
24	832.96	12	833.37	May 01	836.24	23	835.05	11	834.51	21	830.60
29	832.85	20	834.49	02	836.22	24	835.02	13	834.39	26	*830.10
30	832.83	28	835.18	08	835.76	28	835.02	18	834.20	Sept.20	826.73
Nov.01	832.77	Jan.02	834.93	10	835.68	29	834.80	20	834.10		
05	832.76	Feb.04	833.46	12	835.63	30	834.83	25	833.85		
09	832.72	21	833.61	13	835.57	31	834.82	26	833.81		
Well EI-5 (Land-surface elevation 828 feet above sea level)											
Oct.01	789.48	Oct.30	790.89	Nov.30	792.08	Mar.04	757.37	May 29	774.40	26	758.89
09	789.83	Nov.01	791.00	Dec.10	792.45	26	758.48	June 03	*775.65	Aug.26	*763.98
12	789.97	05	791.13	12	792.55	Apr.01	760.37	10	753.80	Sept.20	759.10
15	789.91	09	791.12	20	792.79	11	762.73	18	755.58		
16	790.11	12	791.42	28	793.01	May 01	768.28	26	757.70		
23	790.60	15	791.54	Jan.02	793.11	08	769.77	July 01	*758.99		
24	790.66	19	791.66	Feb.04	794.32	14	771.17	16	756.57		
29	790.84	26	791.93	22	*794.64	20	772.52	22	758.03		

Table 4. *Water levels in observation wells measured intermittently, water year 1991*--Continued

Date	Water level	Date	Water level	Date	Water level	Date	Water level	Date	Water level	Date	Water level
					Well EI-6 (Land-surface elevation 828 feet above sea level)						
Oct.01	793.20	Oct.30	794.58	Nov.30	795.94	Feb.26	799.46	May 14	802.38	July 16	771.59
09	793.57	Nov.01	794.62	Dec.10	796.38	Mar.04	799.70	20	802.60	22	772.73
12	793.71	05	794.87	12	796.47	21	800.37	29	802.93	26	772.93
15	793.90	09	795.05	20	796.82	26	800.57	June 03	*803.11	Aug.26	*774.84
16	793.93	12	795.18	28	797.15	Apr.04	800.92	10	773.00	Sept.20	773.09
23	794.23	15	795.29	Jan.02	797.33	11	801.15	18	772.50		
24	794.28	19	795.48	Feb.04	798.73	May 01	801.92	26	773.10		
29	794.52	26	795.79	22	799.31	08	802.16	July 01	*773.12		
					Well EI-7 (Land-surface elevation 829 feet above sea level)						
Oct.01	830.40	Oct.16	829.94	Oct.30	829.59	Nov.12	829.45	Aug.21	827.41		
09	830.15	23	829.80	Nov.01	829.54	July 16	829.46	26	827.09		
12	830.05	24	829.76	05	829.57	22	829.13	Sept.20	825.51		
15	829.97	29	829.60	09	829.51	26	828.86				
					Well EI-8 (Land-surface elevation 830 feet above sea level)						
Oct.01	826.05	Nov.12	824.97	Feb.26	826.42	May 06	827.10	May 23	826.77	June 18	825.70
09	825.68	15	825.02	Mar.04	827.20	07	827.09	24	826.68	20	825.60
12	825.60	19	824.95	21	827.92	08	827.08	28	826.40	25	825.41
15	825.45	26	824.92	26	828.04	09	827.04	29	826.38	26	825.36
16	825.47	30	826.06	Apr.01	827.59	10	827.01	30	826.82	27	825.30
23	825.24	Dec.10	825.60	04	827.37	12	826.99	31	826.85	July 01	*825.10
24	825.18	12	826.16	11	827.58	13	826.97	June 03	826.53	16	824.20
29	825.12	20	827.60	May 01	827.17	14	826.93	04	826.42	22	823.83
30	825.04	28	826.99	02	827.13	15	826.91	06	826.25	26	*823.56
Nov.01	825.03	Jan.02	826.46	03	827.11	17	826.82	10	826.05	Aug.21	822.02
05	825.02	Feb.04	825.76	04	827.08	20	826.92	11	826.00	26	*821.75
09	824.96	22	826.79	05	827.13	21	826.90	17	825.74	Sept.20	820.41
					Well EI-9 (Land-surface elevation 830 feet above sea level)						
Oct.01	826.26	Nov.12	825.17	Feb.26	826.36	May 06	827.29	May 22	826.84	June 21	825.98
09	825.95	15	825.19	Mar.04	826.54	07	827.20	23	826.82	25	825.83
12	825.84	19	825.21	21	827.67	08	827.15	24	826.80	26	825.77
15	825.72	26	825.20	26	828.00	09	827.13	28	826.66	27	825.72
16	825.71	30	825.66	Apr.01	827.97	10	827.16	29	826.60	July 01	*825.52
23	825.52	Dec.10	825.78	04	827.67	12	827.05	30	826.66	16	824.62
24	825.57	12	824.98	11	827.57	13	827.01	31	826.64	22	824.25
29	825.33	20	827.09	May 01	827.38	14	827.17	June 03	826.70	26	*823.98
30	825.31	28	827.25	02	827.33	15	826.80	10	825.65	Aug.21	822.63
Nov.01	825.27	Jan.02	826.86	03	827.29	16	826.96	11	825.90	26	*822.36
05	825.27	Feb.04	825.60	04	827.23	20	826.86	13	826.10	Sept.20	821.10
09	825.20	22	826.24	05	827.25	21	826.87	18	826.06		
					Well EI-10 (Land-surface elevation 832 feet above sea level)						
Oct.01	826.04	Nov.12	824.79	Feb.26	827.97	May 06	828.83	May 23	827.43	June 20	825.85
09	825.60	15	824.84	Mar.04	828.55	07	828.68	24	827.36	25	825.56
12	825.50	19	824.75	21	829.18	08	828.57	26	826.98	26	825.49
15	825.34	26	824.75	26	829.90	09	828.46	29	826.90	27	825.39
16	825.41	30	825.21	Apr.01	829.41	10	828.33	30	827.37	July 01	*825.05
23	825.14	Dec.10	825.17	04	829.14	12	828.13	June 03	827.10	16	823.97
24	825.08	12	825.48	11	829.70	13	828.03	04	826.96	22	823.58
29	825.02	14	825.95	May 01	828.93	14	827.98	05	826.87	26	*823.30

Table 4. *Water levels in observation wells measured intermittently, water year 1991*--Continued

Date	Water level	Date	Water level	Date	Water level	Date	Water level	Date	Water level	Date	Water level
					Well EI-10--Continued						
Oct.30	824.94	Dec.28	827.95	May 02	828.78	May 15	827.79	June 06	826.76	Aug.21	822.15
Nov.01	824.93	Jan.02	826.95	03	828.72	20	827.65	11	826.39	26	*821.94
05	824.94	Feb.04	827.40	04	828.66	21	827.58	13	826.21	Sept.20	820.97
09	824.86	22	828.60	05	828.75	22	827.48	15	825.96		
					Well EI-11 (Land-surface elevation 831 feet above sea level)						
Oct.01	825.98	Nov.12	824.58	Mar.04	827.25	May 07	827.92	May 22	826.88	June 17	825.70
09	825.54	15	824.59	21	828.15	08	827.88	23	826.87	20	825.66
12	825.41	19	824.60	26	828.51	09	827.84	24	826.85	25	825.45
15	825.32	26	824.56	Apr.01	828.78	10	828.07	25	826.70	26	825.40
16	825.27	30	824.68	04	828.48	12	827.74	29	826.65	27	825.35
23	825.04	Dec.10	824.99	11	828.40	13	827.65	30	826.61	July 01	*825.09
24	824.99	20	826.27	May.01	828.34	14	828.35	June 03	826.67	16	823.89
29	824.84	28	827.18	02	828.26	15	827.96	04	826.66	22	823.55
30	824.81	Jan.02	826.86	03	828.17	16	827.74	05	826.62	26	*823.28
Nov.01	824.76	Feb.04	825.70	04	828.06	17	827.53	06	*826.56	Aug.21	822.00
05	824.68	22	827.06	05	828.01	20	826.72	11	824.23	26	*821.77
09	824.61	26	827.27	06	827.95	21	826.82	13	825.27	Sept.20	820.77
					Well EI-12 (Land-surface elevation 837 feet above sea level)						
Oct.01	830.91	Nov.12	829.09	Mar.04	830.82	May 07	833.77	May 29	831.74	June 25	829.89
09	830.39	15	829.14	21	833.49	08	833.68	30	831.89	26	829.79
12	830.18	19	828.99	26	835.51	09	833.58	31	831.80	27	829.67
15	830.01	26	828.97	Apr.01	834.96	10	833.48	June 03	831.62	July 01	*829.25
16	830.03	30	829.00	04	834.61	14	833.09	04	831.57	16	827.95
23	829.76	Dec.10	828.85	11	835.40	17	832.74	05	831.44	22	827.30
24	829.67	20	830.42	May 01	834.07	20	832.58	06	831.35	26	*827.11
29	829.55	28	831.35	02	833.92	21	832.52	07	831.26	Aug.21	825.65
30	829.53	Jan.02	831.18	03	833.82	22	832.42	11	830.96	26	825.38
Nov.01	829.46	Feb.04	830.64	04	833.71	23	832.36	13	830.74	Sept.20	Dry
05	829.41	22	830.49	05	833.76	24	832.26	18	830.40	23	Dry
09	829.30	26	830.63	06	833.90	28	831.84	20	830.24	24	Dry
					Well EI-13 (Land-surface elevation 837 feet above sea level)						
Oct.01	830.85	Nov.12	829.10	Mar.04	830.80	May 07	833.73	May 29	831.70	June 25	829.88
09	830.31	15	829.10	21	833.36	08	833.66	30	831.87	26	829.72
12	830.14	19	828.94	26	835.30	09	833.51	31	831.75	27	829.60
15	829.91	26	829.00	Apr.01	834.87	10	833.40	June 03	831.58	July 01	*829.17
16	830.04	30	829.01	04	834.52	14	833.07	04	831.47	16	827.89
23	829.70	Dec.10	828.86	11	835.31	17	832.68	05	831.38	22	827.56
24	829.61	20	830.62	May 01	834.00	20	832.51	06	831.30	26	*827.06
29	829.57	28	831.32	02	833.85	21	832.46	07	831.21	Aug.21	825.60
30	829.47	Jan.02	831.12	03	833.76	22	832.38	11	830.91	26	*825.33
Nov.01	829.47	Feb.04	830.60	04	833.64	23	832.30	13	830.70	Sept.20	824.12
05	829.41	22	830.45	05	833.70	24	832.22	18	830.35	23	824.00
09	829.28	26	830.60	06	833.83	28	831.77	20	830.18	24	823.60
					Well EI-14 (Land-surface elevation 837 feet above sea level)						
Oct.01	830.83	Nov.12	829.09	Mar.04	830.75	May 07	833.61	May 29	831.67	June 25	829.80
09	830.30	15	829.08	21	833.29	08	833.57	30	831.82	26	829.60
12	830.12	19	828.96	26	835.20	09	833.41	31	831.71	27	829.57
15	829.90	26	828.98	Apr.01	833.83	10	833.34	June 03	831.55	July 01	*829.15

Table 4. *Water levels in observation wells measured intermittently, water year 1991*--Continued

Date	Water level	Date	Water level	Date	Water level	Date	Water level	Date	Water level	Date	Water level
					Well EI-14--Continued						
Oct.16	830.01	Nov.30	828.99	Apr.04	834.48	May 14	832.99	June 04	831.43	July 16	827.87
23	829.69	Dec.10	828.85	11	835.26	17	832.64	05	831.35	22	827.39
24	829.60	20	829.52	May 01	833.97	20	832.47	06	831.27	26	*827.05
29	829.55	28	831.28	02	833.81	21	832.41	07	831.15	Aug.21	825.59
30	829.46	Jan.02	831.10	03	833.71	22	832.32	11	830.87	26	*825.32
Nov.01	829.42	Feb.04	830.56	04	833.60	23	832.27	13	830.65	Sept.20	824.09
05	829.40	22	830.42	05	833.65	24	832.18	18	830.31	23	823.95
09	829.26	26	830.57	06	833.78	28	831.76	20	830.15	24	823.99
					Well EI-16 (Land-surface elevation 841 feet above sea level)						
Oct.01	834.40	Nov.09	833.17	Feb.21	835.48	May 12	836.08	May 29	835.14	July 01	833.87
02	832.72	12	833.11	26	835.47	13	836.03	30	835.22	16	833.04
09	834.00	15	833.09	Mar.04	836.40	14	835.97	31	835.20	22	832.84
12	833.91	19	833.05	21	839.20	15	835.90	June 03	834.77	26	832.51
15	833.82	26	833.05	26	839.61	16	835.51	05	834.40	Aug.21	830.95
16	833.77	30	833.13	Apr.01	838.26	17	835.76	06	834.93	26	830.66
23	833.57	Dec.10	833.40	04	837.42	20	835.60	10	834.88	Sept.20	828.91
24	833.52	12	833.46	11	837.62	21	835.53	18	834.16		
29	833.38	20	834.96	May 01	836.90	22	835.48	20	834.39		
30	833.35	28	836.66	02	836.82	23	835.43	25	834.18		
Nov.01	833.33	Jan.02	836.37	08	835.87	24	835.39	26	834.15		
05	833.26	Feb.04	834.46	10	836.02	28	835.20	27	834.09		
					Well EI-17 (Land-surface elevation 843 feet above sea level)						
Oct.01	835.37	Nov.12	834.01	Mar.04	833.80	May 08	837.73	May 24	836.49	June 19	835.20
02	835.30	15	834.00	21	839.33	09	837.65	28	836.20	25	*833.78
09	834.96	19	833.95	26	839.87	10	837.60	30	836.25	26	834.70
12	834.88	26	833.89	Apr.01	839.62	12	837.40	31	*835.90	27	834.76
15	834.77	30	833.99	04	839.06	13	837.32	June 03	835.51	July 01	*834.58
16	834.75	Dec.10	834.17	11	838.88	14	837.22	04	835.53	16	833.58
23	834.53	12	834.29	May 01	838.67	15	*837.11	05	835.59	22	833.23
24	834.46	20	836.40	02	838.51	16	832.65	06	835.64	26	*832.94
29	834.32	28	837.25	03	838.32	17	835.45	07	835.69	Aug.21	831.51
30	834.30	Jan.02	836.96	04	838.11	20	836.20	10	835.65	26	*831.24
Nov.01	834.27	Feb.04	835.30	05	838.00	21	836.52	11	835.62	Sept.20	829.90
05	834.18	21	835.55	06	837.91	22	836.49	13	835.52		
09	834.09	26	835.50	07	837.80	23	836.45	17	835.35		
					Well EI-18 (Land-surface elevation 843 feet above sea level)						
Oct.01	835.83	Nov.12	834.47	Mar.04	836.15	May 08	838.57	May 29	836.61	June 26	835.24
02	835.77	15	834.49	21	840.92	09	838.53	30	836.71	27	835.16
09	835.42	19	834.40	26	841.48	10	838.37	31	836.69	July 01	*834.90
12	835.37	26	834.30	Apr.01	840.60	12	838.08	June 03	836.47	16	833.85
15	835.22	30	834.44	04	839.91	13	837.94	04	836.02	22	833.48
16	835.21	Dec.10	834.61	11	840.53	14	837.84	05	836.25	26	*833.19
23	834.99	12	834.79	May 01	839.50	15	837.66	06	836.28	Aug.21	831.78
24	834.91	20	837.50	02	839.24	16	836.92	10	836.13	26	*831.15
29	834.78	28	838.10	03	839.02	17	837.10	11	836.09	Sept.20	830.19
30	834.76	Jan.02	837.67	04	838.75	20	837.11	13	835.95		
Nov.01	834.71	Feb.04	835.98	05	838.68	21	837.09	18	835.71		
05	834.73	21	836.02	06	838.65	22	+837.06	20	835.23		
09	834.59	26	835.98	07	838.63	28	836.66	25	835.30		

Table 4. *Water levels in observation wells measured intermittently, water year 1991*--Continued

Date	Water level	Date	Water level	Date	Water level	Date	Water level	Date	Water level	Date	Water level
					Well EI-19 (Land-surface elevation 843 feet above sea level)						
Oct.01	836.01	Nov.12	834.65	Mar.04	836.39	May 08	838.99	May 24	837.00	June 26	835.37
02	835.92	15	834.67	21	841.76	09	838.92	28	836.94	27	835.29
09	835.59	19	834.63	26	842.24	10	838.73	29	836.86	July 01	*835.00
12	835.52	26	834.53	Apr.01	841.07	12	838.40	30	836.92	16	833.97
15	835.38	30	834.69	05	840.40	13	838.27	31	836.97	22	833.58
16	835.32	Dec.10	834.83	11	841.27	14	838.12	June 03	836.80	26	*833.32
23	835.16	12	835.01	May.01	839.88	15	*837.94	06	*836.57	Aug.21	832.01
24	835.09	20	837.87	02	839.54	16	824.60	10	835.30	26	*831.75
29	834.96	28	838.48	03	839.31	17	829.04	11	836.25	Sept.20	830.93
30	834.91	Jan.02	837.78	04	839.06	20	835.35	13	836.09		
Nov.01	834.91	Feb.04	836.30	05	838.91	21	836.15	18	835.85		
05	834.83	21	836.23	06	839.03	22	836.60	20	835.73		
09	834.80	26	836.23	07	839.03	23	836.86	25	835.45		
					Well EI-20 (Land-surface elevation 843 feet above sea level)						
Oct.01	836.18	Nov.12	834.83	Mar.04	836.43	May 08	839.40	May 24	837.50	June 18	835.96
02	836.12	15	834.86	21	842.30	09	839.32	28	837.11	20	835.82
09	835.75	19	834.80	26	842.73	10	839.12	29	837.00	25	835.52
12	835.61	26	834.73	Apr.01	841.53	12	838.72	29	837.00	26	835.46
15	835.58	30	834.83	04	840.75	13	838.59	30	837.22	27	835.37
16	835.56	Dec.10	835.13	11	841.82	14	838.40	31	+837.14	July 01	*835.08
23	835.34	12	835.24	May 01	840.33	15	*838.03	June 04	836.83	16	834.05
24	835.27	20	837.86	02	839.98	16	837.95	05	836.85	22	833.68
29	835.13	28	838.82	03	839.72	17	837.86	06	836.76	26	*833.41
30	835.10	Jan.02	838.11	04	839.44	20	837.83	07	836.48	Aug.21	832.30
Nov.01	835.05	Feb.04	836.51	05	839.32	21	837.67	10	836.47	26	*832.50
05	834.96	21	836.32	06	839.40	22	837.61	11	836.39	Sept.20	Dry
09	834.92	26	836.28	07	839.45	23	837.53	13	836.20		
					Well EI-22 (Land-surface elevation 829 feet above sea level)						
Oct.01	825.92	Nov.12	825.11	Mar.04	826.89	May 08	827.42	May 28	826.80	June 26	825.91
02	825.88	15	825.17	21	827.82	09	827.41	29	826.75	27	825.86
09	825.66	19	825.21	22	828.07	10	827.37	30	826.74	July 01	*825.65
12	825.59	26	825.22	Apr.01	828.03	12	827.48	June 03	826.80	16	824.92
15	825.51	30	825.50	04	827.57	13	827.27	04	826.81	22	824.55
16	825.48	Dec.10	825.85	11	827.75	14	827.24	05	826.78	26	824.27
23	825.34	12	825.87	May 01	827.67	15	827.19	10	826.24	Aug.21	822.92
24	825.31	20	827.01	02	827.63	17	827.10	11	826.33	26	*822.64
29	825.20	28	827.25	03	827.59	20	827.01	13	826.35	Sept.20	821.58
30	825.16	Jan.02	826.94	04	827.52	21	827.00	17	826.28		
Nov.01	825.15	Feb.04	825.77	05	827.50	22	826.97	18	826.35		
05	825.10	22	826.50	06	827.46	23	826.95	19	826.20		
09	825.10	26	826.73	07	827.44	24	826.91	25	825.97		
					Well EI-23 (Land-surface elevation 830 feet above sea level)						
Oct.01	826.11	Nov.09	825.28	Feb.22	827.31	May 06	827.61	May 22	827.04	June 17	826.20
02	826.10	12	825.33	26	827.42	07	827.61	23	827.00	18	826.21
09	825.90	15	825.40	Mar.04	827.80	08	827.59	24	826.97	25	825.91
12	825.75	19	825.38	21	828.61	09	827.54	28	826.76	26	825.86
15	825.65	26	825.33	26	828.79	10	827.49	29	826.71	27	825.81
16	825.70	30	825.75	Apr.01	828.50	12	827.40	30	826.75	July 01	*825.58
23	825.47	Dec.10	825.92	04	828.05	13	827.34	June 03	826.84	16	824.85
24	825.43	12	826.02	11	828.21	14	827.29	04	826.80	22	824.47

Table 4. *Water levels in observation wells measured intermittently, water year 1991*--Continued

Date	Water level	Date	Water level	Date	Water level	Date	Water level	Date	Water level	Date	Water level
					Well EI-23--Continued						
Oct.29	825.30	Dec.20	827.53	May 01	827.83	May 15	827.22	June 05	826.76	July 26	*824.18
30	825.29	28	827.55	02	827.75	17	827.14	10	826.30	Aug.21	822.81
Nov.01	825.26	Jan.02	827.16	03	827.66	20	827.08	11	826.33	26	*822.52
05	825.24	Feb.04	825.90	05	827.59	21	827.06	13	826.29	Sept.20	821.41
					Well EI-24 (Land-surface elevation 830 feet above sea level)						
Oct.01	824.43	Nov.09	823.56	Feb.26	827.00	May 06	826.05	May 22	825.40	June 17	824.15
02	824.40	12	823.60	Mar.04	827.58	07	826.02	23	825.35	18	824.19
09	824.12	15	823.58	21	827.93	08	825.98	24	825.30	25	824.12
12	824.22	19	823.68	26	828.03	09	825.95	25	825.05	26	824.10
15	824.08	26	823.69	Apr.01	827.16	10	825.86	29	824.99	27	824.04
16	824.08	30	823.87	04	826.64	12	825.78	30	825.24	July 01	*823.84
23	823.84	Dec.10	824.22	11	827.03	13	825.71	June 03	825.27	16	822.72
24	823.80	12	824.40	May 01	826.26	14	825.66	04	825.08	22	822.51
29	823.69	20	826.23	02	826.17	15	825.56	05	824.98	26	*822.24
30	823.67	28	826.44	03	826.08	17	825.45	10	824.52	Aug.21	820.67
Nov.01	823.64	Feb.04	824.57	04	826.02	20	825.45	11	824.47	26	*820.65
05	823.60	22	827.22	05	826.01	21	825.42	12	824.33	Sept.20	819.43

Table 5. *Construction data for buried pressure transducers and thermistors in boreholes EI-26 and EI-25*

[Borehole construction data from U.S. Geological Survey, Iowa City, Iowa, and Iowa Department of Natural Resources Geological Survey Bureau, Iowa City, Iowa]

Local number	Station identification number	Land-surface elevation (feet above sea level)	Approximate sensor depth (feet)	Approximate sensor elevation (feet above sea level)
		South site (EI-26)		
H-9	415219091400216	841	9	832.4
H-15	415219091400215	841	15	826.4
H-40	415219091400214	841	40	801.4
H-55	415219091400213	841	55	786.4
H-90	415219091400209	841	90	751.4
		North site (EI-25)		
L-9	415216091400211	827	9	818.4
L-22	415216091400210	827	22	805.9
L-33	415216091400209	827	33	794.4
L-53	415216091400208	827	53	774.4
L-75	415216091400207	827	75	753.9

Table 6. *Daily mean water levels and water temperatures for pressure transducers and thermistors in borehole EI-26 at south site, water year 1991*

[---, data not collected]

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
						(Sensor H-9)						
						Mean water level, in feet above sea level						
						Approximate sensor elevation 832 feet above sea level						
						Depth below land surface 9 feet						
1	834.89	833.66	834.00	836.90	835.07	835.28	839.03	837.32	836.32	833.75	832.43	---
2	834.83	833.55	833.92	837.00	835.03	835.35	838.85	837.27	835.85	833.76	832.23	---
3	---	833.65	833.46	837.07	834.94	835.90	838.57	837.10	835.52	833.67	832.29	---
4	---	833.89	833.62	836.90	834.91	835.91	838.31	836.95	835.48	833.58	832.39	---
5	---	833.58	833.53	836.61	835.17	835.65	838.16	836.74	835.56	833.51	832.38	---
6	---	833.64	833.46	836.74	835.45	835.63	837.88	836.78	835.69	833.43	832.33	---
7	---	833.81	833.45	836.74	835.66	836.00	837.66	836.96	835.58	833.41	832.31	---
8	---	833.76	833.43	836.46	835.73	836.00	837.43	836.95	835.40	833.51	834.18	---
9	---	833.56	833.44	836.47	835.73	836.09	839.71	836.83	835.30	833.44	834.28	---
10	---	833.49	833.45	836.45	835.87	836.16	839.42	836.78	835.15	833.33	833.79	---
11	---	833.58	833.41	836.08	835.95	835.95	839.13	836.68	835.00	833.26	833.39	---
12	834.42	833.68	835.50	836.03	835.83	835.81	838.86	836.48	834.91	833.15	832.96	---
13	834.27	833.67	835.81	835.87	835.46	836.66	838.70	836.29	834.86	833.18	832.62	---
14	834.04	833.51	835.81	835.69	835.49	837.53	839.80	836.17	834.66	833.28	832.37	---
15	834.21	833.38	838.94	835.75	835.84	838.90	839.92	836.12	834.56	833.27	832.17	---
16	834.19	833.42	838.46	835.69	835.74	840.24	839.43	836.02	834.69	833.21	---	---
17	833.90	833.57	837.31	835.77	835.55	840.36	839.10	836.11	834.68	833.08	---	---
18	833.96	833.40	837.28	835.72	835.50	840.44	838.70	836.96	834.66	832.92	---	---
19	834.16	833.31	837.37	835.44	835.63	840.27	839.53	836.75	834.67	832.82	---	---
20	833.98	833.28	837.56	835.39	835.75	839.80	839.56	836.40	834.57	832.81	---	---
21	833.97	833.04	838.10	835.64	835.78	839.39	839.06	836.14	834.40	832.78	---	---
22	834.08	833.09	838.04	835.39	836.01	839.82	838.50	836.03	834.39	832.73	---	---
23	833.98	832.97	837.93	835.19	836.03	840.10	838.21	835.91	834.47	832.81	---	---
24	834.03	832.88	837.71	835.49	836.01	840.47	838.32	835.78	834.43	832.73	---	---
25	834.09	832.92	837.60	835.52	836.10	840.13	838.11	835.65	834.35	832.74	---	---
26	833.99	832.88	837.68	835.29	835.94	839.94	837.78	835.51	834.19	832.84	---	---
27	833.86	837.02	837.47	834.96	835.76	839.81	837.49	835.56	834.12	832.84	---	832.03
28	834.05	835.38	837.16	834.91	835.56	839.92	837.58	835.52	834.11	832.64	---	832.12
29	833.95	835.15	837.02	835.07	---	839.61	837.32	835.65	834.00	832.59	---	832.11
30	833.80	834.37	837.12	835.01	---	839.44	837.31	838.23	833.90	832.57	---	832.06
31	833.78	---	837.17	835.10	---	839.15	---	836.92	---	832.47	---	---
						Mean water temperature, in degrees Celsius						
						Approximate sensor elevation 832 feet above sea level						
1	15.6	13.8	11.7	9.1	6.6	5.5	5.2	6.8	9.2	11.9	13.9	---
2	15.6	13.7	11.6	9.0	6.6	5.5	5.3	6.9	9.3	11.9	13.9	---
3	---	13.7	11.5	8.9	6.5	5.5	5.3	7.0	9.4	12.0	14.0	---
4	---	13.6	11.5	8.8	6.5	5.5	5.4	7.0	9.5	12.1	14.0	---
5	---	13.5	11.2	8.7	6.4	5.4	5.4	7.1	9.6	12.2	14.0	---
6	---	13.5	11.2	8.6	6.4	5.4	5.5	7.2	9.7	12.3	14.1	---
7	---	13.4	11.3	8.5	6.3	5.4	5.5	7.2	9.8	12.3	14.1	---
8	---	13.3	11.2	8.4	6.3	5.4	5.5	7.3	9.9	12.4	14.1	---
9	---	13.3	11.1	8.3	---	5.3	5.6	7.3	10.1	12.5	14.1	---
10	---	13.2	11.0	8.2	6.2	5.3	5.6	7.4	10.2	12.6	14.2	---

Table 6. *Daily mean water levels and water temperatures for pressure transducers and thermistors in borehole EI-26 at south site, water year 1991--Continued*

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
					(Sensor H-9)--Continued							
					Mean water temperature, in degrees Celsius--Continued							
11	---	13.2	10.9	8.1	6.2	5.3	5.7	7.5	10.2	12.7	14.2	---
12	15.2	13.1	10.9	8.0	6.1	5.3	5.8	7.5	10.3	12.7	14.2	---
13	15.1	13.0	---	7.9	6.1	5.2	5.8	7.6	10.4	12.8	14.2	---
14	15.1	12.9	---	7.8	6.1	5.2	5.9	7.6	10.5	12.9	14.3	---
15	15.0	12.8	10.6	7.8	6.0	5.2	6.0	7.7	10.6	12.9	14.3	---
16	15.0	12.7	10.5	7.7	6.0	5.2	6.1	7.7	10.7	13.0	---	---
17	14.9	12.7	10.4	7.6	5.9	5.1	6.1	7.8	10.8	13.0	---	---
18	14.8	12.6	10.3	7.5	5.9	5.1	6.2	7.9	10.9	13.1	---	---
19	14.8	12.5	10.2	7.4	5.9	5.1	6.2	8.0	10.9	13.2	---	---
20	14.7	12.4	10.2	7.4	5.8	5.1	6.3	8.1	11.0	13.2	---	---
21	14.6	12.3	10.1	7.3	5.8	5.1	6.3	8.2	11.1	13.3	---	---
22	14.6	12.2	10.0	7.2	5.8	5.0	6.4	8.2	11.2	13.3	---	---
23	14.5	12.2	9.9	7.2	5.7	5.0	6.4	8.3	11.3	13.4	---	---
24	14.4	12.1	9.8	7.1	5.7	5.0	6.5	8.4	11.4	13.4	---	---
25	14.4	12.0	9.7	7.0	5.7	5.0	6.6	8.5	11.4	13.5	---	---
26	14.3	12.0	9.7	---	5.6	5.0	6.6	8.6	11.5	13.5	---	---
27	14.2	11.9	9.6	6.9	5.6	5.0	6.7	8.7	11.6	13.6	---	14.9
28	14.1	11.8	9.5	6.9	5.6	5.1	6.7	8.8	11.7	13.7	---	14.9
29	14.1	11.8	9.4	6.8	---	5.1	6.7	8.9	11.8	13.7	---	14.8
30	14.0	11.7	9.3	6.8	---	5.1	6.8	9.0	11.8	13.8	---	14.8
31	13.9	---	9.2	6.7	---	5.2	---	9.1	---	13.8	---	---
					(Sensor H-15)							
					Mean water level, in feet above sea level							
					Approximate sensor elevation 826 feet above sea level							
					Depth below land surface 15 feet							
1	834.82	833.57	833.37	836.83	835.01	835.16	838.97	837.40	835.20	833.62	831.95	830.31
2	834.77	833.50	833.51	836.92	834.98	835.37	838.80	837.32	835.16	833.62	831.72	830.17
3	---	833.63	833.18	836.95	834.87	835.89	838.56	837.13	835.13	833.51	831.74	830.05
4	---	833.66	833.47	836.77	834.89	835.87	838.35	836.98	835.20	833.43	831.82	830.08
5	---	833.43	833.32	836.48	835.19	835.61	838.21	836.75	835.31	833.37	831.80	829.95
6	---	833.60	833.37	836.60	835.45	835.62	837.93	836.90	835.44	833.28	831.73	829.94
7	---	833.76	833.33	836.58	835.65	835.94	837.68	837.08	835.40	833.25	831.68	829.89
8	---	833.66	833.36	836.33	835.72	835.93	837.44	837.04	835.26	833.37	831.82	829.69
9	---	833.48	833.37	836.34	835.79	836.02	838.71	836.91	835.16	833.29	831.62	829.56
10	---	833.44	833.42	836.28	835.90	836.06	839.34	836.84	835.01	833.18	831.54	829.65
11	---	833.54	833.29	835.94	836.00	835.86	839.12	836.71	834.89	833.12	831.54	829.58
12	834.36	833.68	833.31	835.89	835.87	835.88	838.88	836.50	834.81	833.01	831.50	829.39
13	834.16	833.64	833.58	835.72	835.48	837.05	838.78	836.31	834.77	833.06	831.35	829.33
14	833.97	833.46	834.19	835.56	835.49	837.72	839.56	836.20	834.56	833.15	831.20	829.14
15	834.20	833.36	835.11	835.60	835.79	838.48	839.91	836.13	834.50	833.13	831.10	829.13
16	834.12	833.45	836.14	835.54	835.64	839.27	839.50	836.01	834.62	833.07	830.95	829.18
17	833.81	833.56	836.48	835.62	835.47	839.76	839.17	835.94	834.60	832.90	830.85	829.16
18	833.98	833.35	836.89	835.56	835.43	840.07	838.77	836.09	834.58	832.73	830.88	829.21
19	834.10	833.28	837.24	835.29	835.61	840.05	839.32	836.16	834.59	832.62	830.93	829.40
20	833.90	833.23	837.52	835.30	835.67	839.70	839.64	836.04	834.48	832.60	830.88	829.37

Table 6. *Daily mean water levels and water temperatures for pressure transducers and thermistors in borehole EI-26 at south site, water year 1991--Continued*

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
					(Sensor H-15)--Continued							
					Mean water level, in feet above sea level--Continued							
21	833.95	833.00	838.05	835.54	835.73	839.30	839.17	835.89	834.31	832.58	830.74	829.08
22	834.01	833.07	838.01	835.26	835.97	839.52	838.59	835.81	834.32	832.50	830.73	828.89
23	833.91	832.95	837.88	835.14	835.95	839.93	838.37	835.71	834.39	832.56	830.78	829.02
24	834.00	832.83	837.67	835.44	835.94	840.30	838.45	835.58	834.34	832.46	830.78	828.86
25	834.04	832.94	837.57	835.45	835.99	840.05	838.23	835.46	834.24	832.44	830.71	828.55
26	833.90	832.82	837.63	835.20	835.83	839.81	837.87	835.34	834.07	832.50	830.59	828.62
27	833.82	834.24	837.40	834.87	835.65	839.72	837.66	835.39	834.03	832.45	830.48	828.69
28	834.02	833.28	837.11	834.88	835.44	839.83	837.75	835.39	834.00	832.24	830.44	828.73
29	833.86	833.55	836.99	835.03	---	839.60	837.50	835.36	833.87	832.17	830.40	828.67
30	833.73	833.33	837.07	834.95	---	839.42	837.46	835.97	833.76	832.12	830.27	828.57
31	833.71	---	837.12	835.07	---	839.14	---	835.23	---	832.02	830.25	---
					Mean water temperature, in degrees Celsius							
					Approximate sensor elevation 826 feet above sea level							
1	13.1	13.3	12.6	11.5	10.0	8.9	7.9	7.9	8.5	9.7	11.1	12.2
2	13.1	13.3	12.6	11.4	10.0	8.8	7.9	7.9	8.5	9.8	11.1	12.2
3	---	13.2	12.5	11.4	9.9	8.8	7.9	7.9	8.6	9.8	11.2	12.2
4	---	13.2	12.5	11.4	9.9	8.8	7.9	7.9	8.6	9.9	11.2	12.3
5	---	13.2	12.4	11.3	9.8	8.7	7.9	7.9	8.6	9.9	11.3	12.3
6	---	13.2	12.4	11.3	9.8	8.7	7.8	7.9	8.6	10.0	11.3	12.3
7	---	13.2	12.4	11.2	9.7	8.7	7.8	7.9	8.7	10.0	11.3	12.3
8	---	13.2	12.4	11.2	9.7	8.6	7.8	8.0	8.7	10.0	11.4	12.4
9	---	13.1	12.3	11.1	---	8.6	7.8	8.0	8.8	10.1	11.4	12.4
10	---	13.1	12.3	11.1	9.6	8.6	7.8	8.0	8.8	10.1	11.5	12.4
11	---	13.1	12.3	11.0	9.6	8.5	7.8	8.0	8.9	10.2	11.5	12.4
12	13.3	13.1	12.3	11.0	9.5	8.5	7.8	8.0	8.9	10.2	11.5	12.5
13	13.3	13.1	---	10.9	9.5	8.5	7.8	8.0	8.9	10.3	11.6	12.5
14	13.3	13.1	---	10.9	9.4	8.4	7.8	8.1	9.0	10.3	11.6	12.5
15	13.3	13.0	12.1	10.8	9.4	8.4	7.8	8.1	9.0	10.3	11.7	12.5
16	13.3	13.0	12.1	10.8	9.4	8.4	7.8	8.1	9.1	10.4	11.7	12.6
17	13.3	13.0	12.1	10.8	9.3	8.3	7.8	8.1	9.1	10.4	11.7	12.6
18	13.3	13.0	12.0	10.7	9.3	8.3	7.8	8.1	9.1	10.5	11.8	12.6
19	13.3	12.9	12.0	10.6	9.2	8.3	7.8	8.1	9.2	10.5	11.8	12.6
20	13.3	12.9	12.0	10.6	9.2	8.3	7.8	8.2	9.2	10.6	11.8	12.7
21	13.3	12.9	11.9	10.5	9.1	8.2	7.8	8.2	9.3	10.6	11.9	12.7
22	13.3	12.9	11.9	10.5	9.1	8.2	7.8	8.2	9.3	10.7	11.9	12.7
23	13.3	12.8	11.9	10.4	9.1	8.2	7.8	8.2	9.4	10.7	11.9	12.7
24	13.3	12.8	11.8	10.4	9.0	8.1	7.8	8.3	9.4	10.8	12.0	12.7
25	13.3	12.8	11.8	10.3	9.0	8.1	7.8	8.3	9.5	10.8	12.0	12.8
26	13.3	12.7	11.7	---	9.0	8.1	7.8	8.3	9.5	10.9	12.0	12.8
27	13.3	12.7	11.7	10.3	8.9	8.1	7.8	8.3	9.6	10.9	12.0	12.8
28	13.3	12.7	11.7	10.2	8.9	8.0	7.8	8.4	9.6	10.9	12.1	12.8
29	13.3	12.6	11.6	10.1	---	8.0	7.8	8.4	9.6	11.0	12.1	12.8
30	13.3	12.6	11.6	10.1	---	8.0	7.9	8.4	9.7	11.0	12.1	12.9
31	13.3	---	11.5	10.1	---	8.0	---	8.5	---	11.1	12.2	---

Table 6. *Daily mean water levels and water temperatures for pressure transducers and thermistors in borehole EI-26 at south site, water year 1991--Continued*

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
						(Sensor H-40)						
						Mean water level, in feet above sea level						
						Approximate sensor elevation 801 feet above sea level						
						Depth below land surface 40 feet						
1	833.67	832.47	832.57	835.34	833.74	833.61	837.46	836.25	833.77	832.78	831.09	829.63
2	833.63	832.45	832.70	835.71	833.74	833.78	837.28	836.23	833.80	832.71	830.88	829.48
3	---	832.60	832.37	835.75	833.61	834.02	837.08	836.03	833.92	832.15	830.92	829.39
4	---	832.66	832.87	835.37	833.55	833.99	836.88	835.89	834.05	832.15	831.02	829.43
5	---	832.36	832.53	834.98	833.69	833.87	836.71	835.66	834.13	832.27	831.01	829.30
6	---	832.66	832.71	835.29	833.84	833.97	836.44	835.75	834.23	832.29	830.97	829.29
7	---	832.81	832.62	835.23	833.89	834.29	836.28	835.88	834.24	832.33	830.95	829.24
8	---	832.62	832.71	834.91	833.89	834.16	836.09	835.79	834.18	832.49	830.79	829.06
9	---	832.44	832.70	835.03	833.91	834.43	836.11	835.66	834.12	832.41	830.80	828.97
10	---	832.47	832.75	834.89	834.08	834.43	836.78	835.65	834.00	832.30	830.78	829.05
11	---	832.59	832.48	834.47	834.24	834.08	837.10	835.53	833.91	832.24	830.79	828.96
12	---	832.76	832.38	834.53	834.07	834.01	837.01	835.25	833.85	832.15	830.74	828.78
13	833.03	832.66	832.62	834.15	833.76	834.27	836.78	834.97	833.82	832.20	830.59	828.72
14	832.87	832.44	832.93	834.02	833.85	834.96	836.58	834.84	833.66	832.30	830.45	828.53
15	833.15	832.38	833.13	834.07	834.21	835.48	836.98	834.81	833.63	832.27	830.36	828.54
16	832.98	832.56	833.66	834.06	833.94	835.71	837.38	834.69	833.73	832.20	830.22	828.61
17	832.66	832.61	833.74	834.19	833.91	835.90	837.41	834.58	833.69	832.03	830.20	828.58
18	832.99	832.32	833.96	834.08	833.84	836.48	837.16	834.86	833.65	831.88	830.21	828.65
19	833.02	832.34	834.53	833.86	833.93	836.87	837.06	834.95	833.66	831.79	830.24	828.83
20	832.78	832.27	834.87	833.89	833.95	836.70	837.31	834.76	833.55	831.77	830.19	828.78
21	832.93	832.06	835.15	834.14	833.96	836.71	837.26	834.63	833.40	831.76	830.04	828.49
22	832.95	832.16	835.78	833.81	834.26	836.64	836.93	834.54	833.44	831.68	830.04	828.32
23	832.85	832.05	835.97	833.81	834.11	836.81	836.79	834.43	833.51	831.75	830.09	828.45
24	832.96	831.94	835.88	834.05	834.27	837.44	836.98	834.31	833.46	831.64	830.08	828.29
25	832.99	832.10	836.04	834.08	834.35	837.45	836.83	834.23	833.37	831.64	830.01	827.99
26	832.80	831.89	836.28	833.81	834.05	837.12	836.51	834.18	833.19	831.70	829.82	828.08
27	832.77	831.95	835.88	833.50	833.96	836.96	836.28	834.18	833.17	831.64	829.67	828.14
28	832.99	832.46	835.39	833.65	833.86	837.50	836.32	834.20	833.14	831.44	829.65	828.18
29	832.75	832.79	835.57	833.78	---	837.66	835.99	834.13	833.03	831.32	829.64	828.13
30	832.68	832.39	835.83	833.67	---	837.69	836.20	834.11	832.91	831.20	829.56	828.04
31	832.66	---	835.81	833.80	---	837.43	---	834.04	---	831.12	829.59	---
						Mean water temperature, in degrees Celsius						
						Approximate sensor elevation 801 feet above sea level						
1	9.9	9.9	10.0	10.2	10.3	10.3	10.3	10.3	10.2	10.1	10.0	10.0
2	9.9	10.0	10.0	10.2	10.3	10.3	10.3	10.3	10.2	10.1	10.0	10.0
3	---	9.9	10.0	10.2	10.3	10.3	10.3	10.3	10.2	10.1	10.0	10.0
4	---	9.9	10.0	10.2	10.3	10.3	10.3	10.3	10.2	10.1	10.0	10.0
5	---	9.9	9.9	10.2	10.3	10.3	10.3	10.3	10.2	10.1	10.0	10.0
6	---	9.9	9.9	10.2	10.3	10.3	10.3	10.3	10.2	10.1	10.0	10.0
7	---	10.0	10.1	10.2	10.3	10.3	10.3	10.3	10.2	10.1	10.0	10.0
8	---	9.9	10.1	10.2	10.2	10.3	10.3	10.3	10.2	10.1	10.0	10.0
9	---	10.0	10.1	10.2	---	10.3	10.3	10.3	10.2	10.1	10.0	10.0
10	---	10.0	10.1	10.2	10.3	10.3	10.3	10.3	10.2	10.1	10.0	10.0

Table 6. *Daily mean water levels and water temperatures for pressure transducers and thermistors in borehole EI-26 at south site, water year 1991--Continued*

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
					(Sensor H-40)--Continued							
					Mean water temperature, in degrees Celsius--Continued							
11	---	10.0	10.1	10.2	10.3	10.3	10.3	10.3	10.2	10.1	10.0	10.0
12	9.9	10.0	10.1	10.2	10.3	10.3	10.3	10.3	10.2	10.1	10.0	10.0
13	9.9	10.0	---	10.2	10.3	10.3	10.3	10.3	10.2	10.1	10.0	10.0
14	9.9	10.0	---	10.2	10.3	10.4	10.3	10.3	10.2	10.1	10.0	10.0
15	9.9	10.0	10.1	10.2	10.3	10.4	10.3	10.3	10.2	10.1	10.0	10.0
16	9.9	10.0	10.1	10.2	10.3	10.4	10.3	10.3	10.2	10.1	10.0	10.0
17	9.9	10.0	10.1	10.2	10.3	10.4	10.3	10.3	10.1	10.0	10.0	10.0
18	9.9	10.0	10.1	10.2	10.3	10.3	10.3	10.3	10.1	10.1	10.0	10.0
19	9.9	10.0	10.1	10.2	10.3	10.3	10.3	10.2	10.1	10.0	10.0	10.0
20	9.9	10.0	10.1	10.2	10.3	10.3	10.3	10.2	10.1	10.0	10.0	10.0
21	9.9	10.0	10.1	10.2	10.3	10.3	10.3	10.2	10.1	10.0	10.0	10.0
22	9.9	10.0	10.1	10.2	10.3	10.3	10.3	10.2	10.1	10.0	10.0	10.0
23	9.9	10.0	10.1	10.2	10.3	10.4	10.3	10.2	10.1	10.0	10.0	10.0
24	9.9	10.0	10.1	10.2	10.3	10.3	10.3	10.2	10.1	10.0	10.0	10.0
25	9.9	10.0	10.1	10.2	10.3	10.3	10.3	10.2	10.1	10.0	10.0	10.0
26	9.9	10.0	10.1	---	10.3	10.3	10.3	10.2	10.1	10.0	10.0	10.0
27	9.9	10.0	10.1	10.3	10.3	10.3	10.3	10.2	10.1	10.0	10.0	10.0
28	9.9	10.0	10.2	10.3	10.3	10.3	10.3	10.2	10.1	10.0	10.0	10.0
29	9.9	10.0	10.1	10.3	---	10.4	10.3	10.2	10.1	10.0	10.0	10.0
30	9.9	10.0	10.1	10.3	---	10.4	10.3	10.2	10.1	10.0	10.0	10.0
31	9.9	---	10.2	10.3	---	10.3	---	10.2	---	10.0	10.0	---
					(Sensor H-55)							
					Mean water level, in feet above sea level							
					Approximate sensor elevation 786 feet above sea level							
					Depth below land surface 55 feet							
1	831.70	830.62	830.67	833.04	831.67	831.18	833.89	833.72	832.39	831.43	829.59	828.06
2	---	830.50	830.66	832.84	831.66	830.94	834.11	833.87	832.47	831.29	829.53	828.11
3	---	830.41	830.84	832.94	831.64	830.96	834.14	833.93	832.42	831.16	829.33	828.01
4	---	830.51	830.61	833.07	831.53	831.29	834.10	833.84	832.38	831.11	829.34	827.91
5	---	830.60	830.93	832.96	831.37	831.23	834.02	833.76	832.44	830.95	829.42	827.95
6	---	830.42	830.87	832.71	831.36	830.98	833.94	833.63	832.57	830.86	829.43	827.84
7	---	830.56	830.92	832.84	831.35	831.02	833.73	833.66	832.72	830.78	829.40	827.83
8	---	830.73	830.93	832.87	831.39	831.45	833.62	833.79	832.71	830.77	829.39	827.78
9	---	830.67	830.97	832.63	831.36	831.51	833.50	833.74	832.61	830.90	829.28	827.64
10	---	830.50	831.02	832.66	831.26	831.70	833.50	833.64	832.54	830.86	829.30	827.54
11	---	830.48	831.07	832.64	831.25	831.82	833.68	833.62	832.43	830.77	829.29	827.62
12	831.19	830.57	830.92	832.29	831.32	831.65	833.85	833.57	832.34	830.73	829.31	827.55
13	831.15	830.71	830.78	832.24	831.21	831.46	833.88	833.38	832.28	830.63	829.26	827.41
14	831.05	830.70	830.79	832.07	830.84	831.50	833.72	833.22	832.26	830.65	829.12	827.36
15	830.85	830.56	830.92	831.92	830.88	831.77	833.53	833.14	832.12	830.75	828.97	827.20
16	831.02	830.47	830.96	831.97	831.31	831.98	833.50	833.11	832.08	830.72	828.86	827.18
17	830.97	830.55	831.19	831.95	831.24	832.00	833.72	833.04	832.20	830.66	828.71	827.24
18	830.69	830.67	831.03	832.04	831.13	831.86	833.91	832.99	832.18	830.50	828.66	827.23
19	830.81	830.49	830.94	832.00	831.10	831.98	833.90	833.21	832.15	830.35	828.68	827.28
20	830.96	830.45	831.27	831.73	831.25	832.21	833.95	833.32	832.16	830.23	828.73	827.43

Table 6. *Daily mean water levels and water temperatures for pressure transducers and thermistors in borehole EI-26 at south site, water year 1991--Continued*

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
					(Sensor H-55)--Continued							
					Mean water level, in feet above sea level--Continued							
21	830.78	830.43	831.51	831.75	831.28	832.17	834.09	833.19	832.04	830.20	828.69	827.42
22	830.81	830.23	831.69	832.01	831.27	832.20	834.05	833.02	831.88	830.18	828.55	827.20
23	830.89	830.31	831.97	831.74	831.48	832.34	833.86	832.94	831.89	830.12	828.54	827.02
24	830.81	830.22	832.24	831.61	831.44	832.42	833.82	832.85	831.97	830.16	828.57	827.12
25	830.86	830.14	832.35	831.94	831.47	832.87	834.08	832.76	831.93	830.08	828.58	826.97
26	830.91	830.23	832.52	831.99	831.62	833.03	834.10	832.65	831.85	830.06	828.51	826.67
27	830.80	830.15	832.92	831.72	831.49	832.91	833.93	832.56	831.69	830.10	828.30	826.73
28	830.71	830.11	832.87	831.37	831.34	832.82	833.75	832.60	831.65	830.05	828.21	826.79
29	830.87	830.46	832.67	831.41	---	833.22	833.83	832.62	831.62	829.86	828.16	826.85
30	830.75	830.84	832.63	831.60	---	833.58	833.59	832.52	831.52	829.72	828.13	826.80
31	830.63	---	832.89	831.52	---	833.89	---	832.46	---	829.69	828.05	---
					Mean water temperature, in degrees Celsius							
					Approximate sensor elevation 786 feet above sea level							
1	10.3	10.3	10.3	10.2	10.3	10.1	10.3	10.3	10.3	10.4	10.4	10.3
2	10.3	10.3	10.3	10.3	10.3	10.1	10.3	10.3	10.3	10.4	10.3	10.3
3	---	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.4	10.4	10.3
4	---	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.4	10.3	10.3
5	---	10.2	10.1	10.3	10.3	10.3	10.3	10.3	10.4	10.4	10.3	10.3
6	---	10.3	10.1	10.3	10.3	10.3	10.3	10.3	10.4	10.4	10.3	10.3
7	---	10.3	10.2	10.3	10.3	10.3	10.3	10.3	10.4	10.4	10.3	10.3
8	---	10.3	10.2	10.3	10.3	10.3	10.3	10.3	10.4	10.4	10.3	10.3
9	---	10.2	10.3	10.3	---	10.3	10.2	10.3	10.4	10.4	10.3	10.3
10	---	10.2	10.3	10.3	10.3	10.3	10.3	10.3	10.4	10.4	10.3	10.3
11	---	10.3	10.3	10.2	10.3	10.3	10.3	10.3	10.4	10.4	10.3	10.3
12	10.3	10.3	10.3	10.3	10.3	10.2	10.3	10.3	10.4	10.4	10.3	10.3
13	10.3	10.3	---	10.3	10.3	10.3	10.3	10.3	10.3	10.4	10.3	10.3
14	10.3	10.3	---	10.2	10.3	10.3	10.2	10.4	10.3	10.4	10.3	10.3
15	10.3	10.3	10.2	10.2	10.3	10.3	10.3	10.4	10.3	10.4	10.3	10.3
16	10.3	10.3	10.2	10.2	10.3	10.3	10.3	10.4	10.4	10.4	10.3	10.3
17	10.3	10.3	10.2	10.3	10.3	10.2	10.3	10.3	10.4	10.4	10.3	10.3
18	10.3	10.3	10.2	10.3	10.2	10.2	10.3	10.3	10.4	10.4	10.3	10.3
19	10.3	10.3	10.2	10.2	10.3	10.3	10.3	10.3	10.4	10.4	10.3	10.3
20	10.3	10.3	10.2	10.3	10.3	10.3	10.3	10.3	10.4	10.4	10.3	10.3
21	10.3	10.2	10.3	10.3	10.3	10.3	10.3	10.3	10.4	10.4	10.3	10.3
22	10.3	10.2	10.3	10.3	10.3	10.2	10.3	10.3	10.3	10.4	10.3	10.3
23	10.3	10.3	10.3	10.3	10.3	10.2	10.3	10.3	10.4	10.4	10.3	10.3
24	10.3	10.3	10.3	10.3	10.3	10.2	10.3	10.3	10.4	10.3	10.3	10.3
25	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.4	10.4	10.3	10.3
26	10.3	10.3	10.3	---	10.3	10.3	10.3	10.3	10.4	10.3	10.3	10.3
27	10.3	10.2	10.3	10.3	10.3	10.3	10.3	10.3	10.4	10.3	10.3	10.3
28	10.3	10.2	10.2	10.3	10.3	10.3	10.3	10.3	10.4	10.3	10.3	10.3
29	10.3	10.2	10.2	10.3	---	10.3	10.3	10.3	10.4	10.3	10.3	10.3
30	10.3	10.2	10.3	10.3	---	10.3	10.3	10.3	10.4	10.3	10.3	10.3
31	10.3	---	10.3	10.3	---	10.3	---	10.3	---	10.3	10.3	---

Table 6. *Daily mean water levels and water temperatures for pressure transducers and thermistors in borehole EI-26 at south site, water year 1991--Continued*

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
					(Sensor H-90)							
					Mean water level, in feet above sea level							
					Approximate sensor elevation 751 feet above sea level							
					Depth below land surface 90 feet							
1	783.28	782.20	782.01	781.69	781.78	780.54	780.68	780.86	780.77	779.67	777.48	776.52
2	783.22	782.13	782.09	781.80	781.81	780.42	780.74	780.95	780.76	779.66	777.38	776.47
3	---	782.18	781.94	781.91	781.77	780.55	780.74	780.95	780.73	779.65	777.74	776.40
4	---	782.25	782.11	781.90	781.63	780.50	780.72	780.93	780.74	779.51	777.66	776.36
5	---	782.14	782.05	781.81	781.54	780.30	780.69	780.89	780.80	779.11	777.78	776.28
6	---	782.24	782.05	781.98	781.47	780.25	780.59	780.98	780.94	778.95	777.60	776.24
7	---	782.36	782.02	782.02	781.46	780.47	780.54	781.14	780.92	778.91	777.54	776.37
8	---	782.33	782.03	781.92	781.35	780.52	780.51	781.19	780.83	778.91	777.34	776.24
9	---	782.23	782.03	781.96	781.19	780.62	780.51	781.16	780.76	778.88	777.33	776.15
10	---	782.20	782.05	781.98	781.19	780.71	780.65	781.16	780.64	778.76	777.30	776.19
11	---	782.25	781.93	781.82	781.31	780.59	780.79	781.14	780.53	778.84	777.34	776.16
12	782.83	782.35	781.82	781.80	781.15	780.46	780.83	781.04	780.45	778.79	777.30	776.07
13	782.70	782.35	781.80	781.70	780.86	780.40	780.75	780.91	780.42	778.77	777.24	776.05
14	782.55	782.25	781.83	781.61	780.79	780.52	780.59	780.86	780.29	778.78	777.13	775.95
15	782.65	782.16	781.87	781.70	781.03	780.61	780.51	780.84	780.25	778.76	776.98	775.96
16	782.57	782.19	781.88	781.71	781.00	780.57	780.57	780.81	780.34	778.69	776.86	776.04
17	782.39	782.24	781.64	781.83	780.94	780.36	780.68	780.79	780.36	778.43	776.80	776.11
18	782.43	782.18	781.49	781.78	780.90	780.24	780.67	780.98	780.37	778.14	776.81	776.27
19	782.50	782.07	781.49	781.71	780.97	780.23	780.71	781.15	780.35	777.98	776.84	776.56
20	782.40	782.01	781.49	781.81	780.99	780.09	780.82	781.13	780.28	777.93	776.85	776.47
21	782.41	781.85	781.45	781.99	780.97	779.97	780.81	781.04	780.14	777.90	776.78	776.42
22	782.45	781.85	781.48	781.78	781.05	779.95	780.68	780.98	780.16	777.84	777.03	776.33
23	782.41	781.78	781.52	781.69	781.01	779.89	780.62	780.91	780.23	777.85	776.85	776.36
24	782.45	781.71	781.49	781.91	781.01	780.15	780.80	780.84	780.26	777.78	776.82	776.31
25	782.49	781.73	781.51	781.90	781.08	780.23	780.87	780.77	780.08	777.73	776.78	776.19
26	782.43	781.61	781.71	781.74	781.00	780.11	780.80	780.68	779.84	777.73	776.77	776.20
27	782.37	781.57	781.66	781.54	780.89	779.94	780.70	780.69	779.70	777.74	776.78	776.26
28	782.47	781.78	781.58	781.56	780.75	780.13	780.77	780.70	779.66	777.63	776.68	776.35
29	782.40	782.07	781.68	781.68	---	780.33	780.66	780.65	779.57	777.56	776.61	776.39
30	782.32	781.99	781.71	781.65	---	780.51	780.74	780.62	779.60	777.52	776.52	776.39
31	782.29	---	781.85	781.77	---	780.55	---	780.66	---	777.49	776.49	---
					Mean water temperature, in degrees Celsius							
					Approximate sensor elevation 751 feet above sea level							
1	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
2	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
3	---	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
4	---	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
5	---	10.5	10.3	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
6	---	10.5	10.3	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
7	---	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
8	---	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
9	---	10.5	10.5	10.5	---	10.5	10.5	10.5	10.5	10.5	10.5	10.5
10	---	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5

Table 6. *Daily mean water levels and water temperatures for pressure transducers and thermistors in borehole EI-26 at south site, water year 1991--Continued*

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
					(Sensor H-90)--Continued							
					Mean water temperature, in degrees Celsius--Continued							
11	---	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
12	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
13	10.5	10.5	---	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
14	10.5	10.5	---	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
15	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
16	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
17	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
18	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
19	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
20	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
21	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
22	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
23	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
24	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
25	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
26	10.5	10.5	10.5	---	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
27	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.4
28	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
29	10.5	10.5	10.5	10.5	---	10.5	10.5	10.5	10.5	10.5	10.5	10.5
30	10.5	10.5	10.5	10.5	---	10.5	10.5	10.5	10.5	10.5	10.5	10.5
31	10.5	---	10.5	10.5	---	10.5	---	10.5	---	10.5	10.5	---

Table 7. *Daily mean water levels and water temperatures from pressure transducers and thermistors in borehole EI-25 at north site, water year 1991*

[---, data not collected]

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
						(Sensor L-9)						
						Mean water level, in feet above sea level						
						Approximate sensor elevation 818 feet above sea level						
						Depth below land surface 9 feet						
1	823.02	822.36	823.75	824.40	823.44	825.49	824.98	824.25	823.89	822.62	820.92	819.76
2	822.99	822.33	823.88	824.58	823.43	826.51	824.88	824.34	823.85	822.60	820.71	819.62
3	822.89	822.47	823.49	824.65	823.32	825.85	824.76	824.27	823.80	822.49	820.74	819.53
4	822.79	822.54	823.84	824.49	824.71	825.16	824.62	824.22	823.88	822.41	820.82	819.59
5	822.71	822.34	823.63	824.21	826.37	824.54	824.51	824.09	823.98	822.34	820.79	819.47
6	822.59	822.59	823.77	824.40	826.39	824.53	824.31	824.22	---	822.23	820.73	819.48
7	822.84	822.78	823.78	824.35	825.78	824.81	824.21	824.42	---	822.22	820.69	819.44
8	822.97	822.69	823.88	824.09	826.23	824.64	824.09	824.42	---	822.34	820.48	819.25
9	822.98	822.54	823.92	824.20	826.45	824.74	824.90	824.36	---	822.25	820.51	819.15
10	822.81	822.61	824.06	824.11	826.51	824.73	825.04	824.39	---	822.14	820.53	819.29
11	822.79	822.84	823.98	823.81	825.82	824.41	825.01	824.34	---	822.06	820.58	819.23
12	822.77	823.08	824.50	823.85	825.14	825.55	824.84	824.18	823.39	821.95	820.54	819.07
13	822.58	823.05	825.21	823.64	824.49	825.96	824.60	824.04	823.46	822.02	820.39	819.03
14	822.42	822.90	824.97	823.58	824.43	825.66	825.58	823.99	823.33	822.12	820.25	818.88
15	822.70	822.85	825.28	823.60	824.73	825.97	825.24	823.96	823.29	822.09	820.17	818.90
16	822.58	822.98	825.60	823.59	824.38	826.12	825.02	823.90	823.48	822.02	820.04	818.99
17	822.28	823.05	825.00	823.69	824.26	826.58	824.89	823.89	823.49	821.83	819.94	819.00
18	822.55	822.82	824.88	823.66	825.24	826.59	824.65	824.26	823.48	821.66	819.99	819.09
19	822.66	822.81	824.98	823.38	826.10	825.88	824.76	824.41	823.51	821.56	820.12	819.32
20	822.44	822.74	825.37	823.54	825.93	825.13	824.94	824.32	823.40	821.54	820.27	819.29
21	822.56	822.51	825.62	823.78	826.58	824.75	824.71	824.15	823.24	821.52	820.06	819.01
22	822.63	822.62	825.33	823.41	826.71	824.86	824.36	824.06	823.29	821.44	820.05	818.84
23	822.54	822.48	825.14	823.43	825.93	825.71	824.24	823.97	823.39	821.50	820.10	819.02
24	---	822.36	824.89	823.79	825.43	825.65	824.48	823.87	823.35	821.40	820.12	818.86
25	---	822.50	824.85	823.84	825.30	825.21	824.45	823.76	823.26	821.40	820.05	818.54
26	---	822.45	825.04	823.52	824.97	824.73	824.23	823.65	823.10	821.46	819.94	818.67
27	---	823.86	824.74	823.15	824.68	825.73	824.05	823.74	823.08	821.41	819.86	818.76
28	---	823.75	824.36	823.25	824.61	825.49	824.17	823.77	823.04	821.19	819.84	818.80
29	---	824.03	824.29	823.44	---	825.23	823.91	823.67	822.91	821.12	819.81	818.74
30	822.51	823.72	824.53	823.33	---	825.17	824.10	823.87	822.78	821.09	819.68	818.65
31	822.49	---	824.66	823.52	---	824.93	---	823.86	---	821.00	819.69	---
						Mean water temperature, in degrees Celsius						
						Approximate sensor elevation 818 feet above sea level						
1	14.8	13.5	11.8	9.6	7.7	6.6	6.1	7.3	9.0	11.3	13.2	13.9
2	14.8	13.4	11.7	9.5	7.7	6.5	6.1	7.3	9.1	11.4	13.2	14.0
3	---	13.3	11.7	9.4	7.7	6.5	6.2	7.4	9.2	11.4	13.2	14.0
4	14.7	13.3	11.6	9.4	7.6	6.5	6.2	7.4	9.3	11.5	13.3	14.0
5	14.7	13.2	11.6	9.3	7.6	6.4	6.2	7.5	9.4	11.6	13.3	14.1
6	14.7	13.2	11.5	9.2	7.5	6.4	6.3	7.5	---	11.7	13.3	14.1
7	14.7	13.1	11.5	9.1	7.5	6.4	6.3	7.6	---	11.7	13.4	14.1
8	14.6	13.1	11.4	9.1	7.4	6.3	6.3	7.6	---	11.8	13.4	14.1
9	14.6	13.0	11.3	9.0	---	6.3	6.4	7.7	---	11.9	13.4	14.2
10	14.5	13.0	11.3	8.9	7.3	6.3	6.4	7.7	---	11.9	13.5	14.2

Table 7. *Daily mean water levels and water temperatures from pressure transducers and thermistors in borehole EI-25 at north site, water year 1991*--Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
(Sensor L-9)--Continued												
Mean water temperature, in degrees Celsius--Continued												
11	14.5	12.9	11.2	8.9	7.3	6.3	6.4	7.7	---	12.0	13.5	14.2
12	14.5	12.9	11.1	8.8	7.3	6.2	6.5	7.8	10.0	12.1	13.5	14.2
13	14.4	12.8	11.1	8.8	7.2	6.2	6.5	7.8	10.0	12.1	13.5	14.2
14	14.4	12.8	11.0	8.7	7.2	6.2	6.6	7.8	10.1	12.2	13.6	14.2
15	14.4	12.7	10.9	8.6	7.1	6.1	6.7	7.9	10.2	12.2	13.6	14.3
16	14.3	12.6	10.8	8.6	7.1	6.1	6.7	7.9	10.3	12.3	13.6	14.3
17	14.3	12.6	10.8	8.5	7.0	6.1	6.8	8.0	10.3	12.4	13.6	14.3
18	14.2	12.5	10.7	8.4	7.0	6.1	6.8	8.0	10.4	12.4	13.7	14.3
19	14.2	12.4	10.6	8.4	7.0	6.0	6.9	8.1	10.5	12.5	13.7	14.3
20	14.1	12.4	10.5	8.3	6.9	6.0	6.9	8.2	10.5	12.5	13.7	14.3
21	14.1	12.3	10.4	8.3	6.9	6.0	6.9	8.2	10.6	12.6	13.7	14.3
22	14.0	12.2	10.3	8.2	6.8	6.0	7.0	8.3	10.7	12.6	13.7	14.4
23	---	12.2	10.2	8.2	6.8	6.0	7.0	8.4	10.8	12.7	13.8	14.4
24	---	12.1	10.2	8.1	6.7	6.0	7.1	8.4	10.8	12.7	13.8	14.4
25	---	12.1	10.1	8.0	6.7	6.0	7.1	8.5	10.9	12.8	13.8	14.4
26	---	12.0	10.0	---	6.7	6.0	7.1	8.6	11.0	12.8	13.8	14.4
27	---	12.0	9.9	8.0	6.6	6.0	7.2	8.6	11.1	12.9	13.8	14.3
28	---	11.9	9.9	7.9	6.6	6.0	7.2	8.7	11.1	12.9	13.9	14.3
29	---	11.9	9.8	7.9	---	6.0	7.2	8.8	11.2	13.0	13.9	14.3
30	---	11.8	9.7	7.8	---	6.0	7.3	8.9	11.3	13.1	13.9	14.3
31	13.5	---	9.7	7.8	---	6.0	---	8.9	---	13.1	13.9	---
(Sensor L-22)												
Mean water level, in feet above sea level												
Approximate sensor elevation 806 feet above sea level												
Depth below land surface 22 feet												
1	823.89	823.05	824.01	825.01	824.07	823.80	825.38	824.79	824.49	823.49	821.77	820.18
2	823.86	823.05	824.14	824.97	824.11	824.37	825.29	824.88	824.48	823.49	821.55	820.21
3	823.79	823.19	823.96	824.91	823.88	825.29	825.17	824.80	824.45	823.33	821.59	820.06
4	823.71	823.30	824.47	824.98	823.48	825.05	825.05	824.77	824.55	823.26	821.67	819.96
5	823.57	823.04	824.06	825.16	823.92	824.50	824.95	824.64	824.47	823.19	821.63	819.99
6	823.45	823.32	824.17	825.22	824.67	824.48	824.75	824.78	---	823.08	821.59	819.85
7	823.72	823.48	824.07	825.02	825.12	824.77	824.64	824.96	---	823.07	821.57	819.84
8	823.84	823.32	824.15	824.66	824.69	824.62	824.52	824.93	---	823.19	821.43	819.79
9	823.85	823.18	824.17	824.74	824.59	824.75	824.79	824.88	---	823.10	821.43	819.60
10	823.64	823.25	824.22	824.55	825.26	824.72	825.18	824.91	---	823.00	821.41	819.49
11	823.63	823.38	823.98	824.32	825.46	824.42	825.30	824.87	---	822.93	821.43	819.58
12	823.59	823.59	823.97	824.34	825.04	823.98	825.20	824.72	824.19	822.83	821.38	819.49
13	823.38	823.56	824.58	824.10	824.44	824.76	825.00	824.60	824.22	822.90	821.21	819.31
14	823.24	823.39	824.69	824.02	824.40	825.28	824.82	824.59	824.10	822.99	821.07	819.25
15	823.52	823.35	824.45	824.09	824.53	825.39	825.18	824.59	824.09	822.96	820.97	819.08
16	823.36	823.54	825.04	824.09	824.33	825.35	825.32	824.52	824.25	822.89	820.84	819.09
17	823.07	823.60	824.80	824.22	824.39	825.03	825.31	824.53	824.23	822.70	820.80	819.16
18	823.40	823.35	824.69	824.14	824.06	825.33	825.11	824.84	824.22	822.53	820.81	819.14
19	823.45	823.35	824.98	823.86	824.55	825.62	825.18	824.93	824.25	822.44	820.85	819.22
20	823.22	823.29	824.90	823.97	824.77	825.21	825.29	824.85	824.15	822.41	820.80	819.41

Table 7. *Daily mean water levels and water temperatures from pressure transducers and thermistors in borehole EI-25 at north site, water year 1991*--Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
					(Sensor L-22)--Continued							
					Mean water level, in feet above sea level--Continued							
21	823.37	823.07	825.12	824.14	824.79	824.92	825.11	824.74	823.99	822.39	820.65	819.37
22	823.41	823.19	825.27	823.74	825.36	824.74	824.80	824.70	824.06	822.31	820.65	819.10
23	823.32	823.07	825.23	823.95	825.40	824.76	824.75	824.61	824.17	822.38	820.71	818.93
24	823.44	822.94	825.13	824.12	825.40	825.39	825.00	824.52	824.12	822.27	820.72	819.08
25	823.49	823.13	825.14	824.17	825.24	825.26	824.94	824.40	824.04	822.26	820.63	818.93
26	823.31	822.99	825.35	823.89	824.88	824.89	824.73	824.32	823.89	822.33	820.60	818.64
27	---	822.87	825.13	823.63	824.63	824.52	824.59	824.42	823.88	822.26	820.47	818.74
28	---	823.63	824.94	823.88	824.30	825.32	824.70	824.44	823.85	822.04	820.35	818.81
29	---	824.08	824.66	824.05	---	825.51	824.44	824.34	823.74	821.96	820.32	818.86
30	823.33	823.80	824.61	823.64	---	825.54	824.66	824.29	823.62	821.92	820.29	818.82
31	823.22	---	825.01	823.94	---	825.31	---	824.37	---	821.84	820.17	---
					Mean water temperature, in degrees Celsius							
					Approximate sensor elevation 806 feet aboe sea level							
1	10.8	11.3	11.5	11.3	10.8	10.3	9.6	9.2	9.0	9.2	9.7	10.4
2	10.8	11.3	11.5	11.3	10.8	10.3	9.6	9.2	9.0	9.2	9.8	10.4
3	---	11.3	11.4	11.2	10.8	10.2	9.6	9.2	9.0	9.3	9.8	10.4
4	10.9	11.3	11.4	11.2	10.8	10.2	9.6	9.2	9.0	9.3	9.8	10.4
5	10.9	11.3	11.4	11.2	10.8	10.2	9.6	9.1	9.0	9.3	9.8	10.4
6	10.9	11.4	11.4	11.2	10.7	10.2	9.6	9.1	---	9.3	9.8	10.4
7	10.9	11.4	11.4	11.2	10.7	10.2	9.5	9.1	---	9.3	9.8	10.5
8	10.9	11.4	11.4	11.2	10.7	10.1	9.5	9.1	---	9.3	9.9	10.5
9	11.0	11.4	11.4	11.2	---	10.1	9.5	9.1	---	9.3	9.9	10.5
10	11.0	11.4	11.4	11.2	10.7	10.1	9.5	9.1	---	9.4	9.9	10.5
11	11.0	11.4	11.4	11.2	10.6	10.1	9.5	9.1	---	9.4	9.9	10.5
12	11.0	11.4	11.4	11.1	10.6	10.1	9.4	9.1	9.1	9.4	9.9	10.6
13	11.0	11.4	11.4	11.1	10.6	10.0	9.4	9.1	9.1	9.4	10.0	10.6
14	11.1	11.4	11.4	11.1	10.6	10.0	9.4	9.1	9.1	9.4	10.0	10.6
15	11.1	11.4	11.4	11.1	10.5	10.0	9.4	9.1	9.1	9.4	10.0	10.6
16	11.1	11.4	11.4	11.1	10.5	10.0	9.4	9.1	9.1	9.4	10.0	10.6
17	11.1	11.4	11.4	11.1	10.5	9.9	9.4	9.1	9.1	9.5	10.1	10.7
18	11.1	11.4	11.4	11.1	10.5	9.9	9.3	9.1	9.1	9.5	10.1	10.7
19	11.1	11.4	11.4	11.0	10.5	9.9	9.3	9.1	9.1	9.5	10.1	10.7
20	11.2	11.5	11.4	11.0	10.5	9.9	9.3	9.1	9.1	9.5	10.1	10.7
21	11.2	11.5	11.3	11.0	10.5	9.9	9.3	9.1	9.1	9.5	---	10.7
22	11.2	11.5	11.3	11.0	10.4	9.9	9.3	9.1	9.1	9.6	---	10.7
23	11.2	11.5	11.3	11.0	10.4	9.8	9.3	9.0	9.1	9.6	---	10.8
24	11.2	11.5	11.3	10.9	10.4	9.8	9.3	9.1	9.2	9.6	---	10.8
25	11.2	11.5	11.3	10.9	10.4	9.8	9.3	9.0	9.2	9.6	10.2	10.8
26	11.2	11.4	11.3	---	10.3	9.8	9.2	9.0	9.2	9.6	10.2	10.8
27	---	11.5	11.3	10.9	10.3	9.8	9.2	9.0	9.2	9.6	10.3	10.8
28	---	11.5	11.3	10.9	10.3	9.7	9.2	9.0	9.2	9.7	10.3	10.9
29	---	11.5	11.3	10.9	---	9.7	9.2	9.0	9.2	9.7	10.3	10.9
30	11.3	11.5	11.3	10.8	---	9.7	9.2	9.0	9.2	9.7	10.3	10.9
31	11.3	---	11.3	10.8	---	9.7	---	9.0	---	9.7	10.3	---

Table 7. *Daily mean water levels and water temperatures from pressure transducers and thermistors in borehole EI-25 at north site, water year 1991*--Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
						(Sensor L-33)						
						Mean water level, in feet above sea level						
						Approximate sensor elevation 794 feet above sea level						
						Depth below land surface 33 feet						
1	829.93	828.96	829.59	831.11	830.23	829.29	831.69	831.36	830.83	829.85	828.22	826.62
2	829.90	828.94	829.77	831.30	830.23	829.50	831.70	831.45	830.82	829.76	828.01	826.47
3	829.83	829.08	829.53	831.39	830.07	829.92	831.64	831.37	830.81	829.63	828.06	826.37
4	829.75	829.16	830.04	831.26	829.95	829.77	831.56	831.32	830.94	829.61	828.13	826.41
5	829.62	828.91	829.80	831.04	830.03	829.42	831.46	831.18	831.05	829.55	828.11	826.27
6	829.50	829.17	829.97	831.30	830.14	829.57	831.23	831.29	---	829.46	828.08	826.25
7	829.75	829.35	829.91	831.27	830.24	830.00	831.14	831.47	---	829.47	828.06	826.18
8	829.88	829.18	830.01	830.94	830.13	829.95	831.04	831.46	---	829.61	827.92	826.00
9	829.88	829.01	830.03	831.08	830.06	830.16	831.24	831.41	---	829.54	827.94	825.88
10	829.66	829.03	830.09	830.98	830.11	830.20	831.52	831.44	---	829.44	827.92	825.97
11	829.64	829.15	829.83	830.63	830.18	829.94	831.64	831.38	---	829.38	827.94	825.88
12	829.61	829.34	829.80	830.68	829.94	829.71	831.57	831.21	830.76	829.28	827.88	825.69
13	829.39	829.29	830.24	830.42	829.49	829.95	831.41	831.08	830.69	829.34	827.71	825.62
14	829.24	829.10	830.21	830.35	829.61	830.28	831.26	831.05	830.56	829.44	827.56	825.43
15	829.53	829.06	829.98	830.39	830.05	830.48	831.32	831.04	830.53	829.41	827.46	825.43
16	829.37	829.26	830.38	830.39	829.82	830.49	831.47	830.99	830.70	829.33	827.30	825.50
17	829.06	829.35	830.12	830.52	829.74	830.25	831.55	830.99	830.68	829.15	827.25	825.47
18	829.38	829.11	830.07	830.49	829.63	830.34	831.45	831.28	830.65	828.98	827.27	825.54
19	829.44	829.13	830.43	830.15	829.90	830.47	831.54	831.37	830.68	828.89	827.32	825.73
20	829.20	829.10	830.52	830.28	829.89	830.22	831.68	831.26	830.57	828.87	827.26	825.68
21	829.35	828.89	830.67	830.54	829.89	830.17	831.55	831.12	830.41	828.85	827.11	825.39
22	829.39	829.03	830.87	830.13	830.19	830.21	831.27	831.09	830.46	828.77	827.10	825.21
23	829.29	828.93	830.97	830.14	830.06	830.31	831.23	831.02	830.55	828.84	827.14	825.35
24	829.41	828.84	830.94	830.52	830.14	830.84	831.52	830.94	830.50	828.74	827.13	825.19
25	829.45	829.04	831.07	830.60	830.21	830.85	831.50	830.84	830.42	828.73	827.05	824.89
26	829.27	828.93	831.42	830.25	830.01	830.62	831.29	830.75	830.25	828.80	826.76	824.98
27	---	828.90	831.18	829.86	829.84	830.47	831.13	830.86	830.24	828.74	826.74	825.06
28	---	829.36	830.88	830.02	829.63	831.02	831.25	830.90	830.21	828.54	826.72	825.10
29	---	829.73	830.87	830.22	---	831.32	830.98	830.80	830.10	828.34	826.69	825.05
30	829.16	829.41	831.15	830.09	---	831.56	831.21	830.69	829.98	828.38	826.57	824.97
31	829.12	---	831.33	830.30	---	831.50	---	830.72	---	828.30	826.59	---
						Mean water temperature, in degrees Celsius						
						Approximate sensor elevation 794 feet above sea level						
1	9.8	10.0	10.2	10.4	10.4	10.5	10.4	10.2	10.0	9.9	9.8	9.8
2	9.8	10.0	10.2	10.4	10.5	10.5	10.4	10.2	10.0	9.9	9.8	9.8
3	---	10.0	10.2	10.4	10.5	10.4	10.3	10.2	10.0	9.9	9.8	9.8
4	9.8	10.0	10.2	10.4	10.5	10.4	10.3	10.2	10.0	9.9	9.8	9.8
5	9.8	10.0	10.2	10.4	10.5	10.5	10.3	10.2	10.0	9.9	9.8	9.8
6	9.9	10.0	10.2	10.4	10.5	10.4	10.3	10.1	---	9.9	9.8	9.9
7	9.9	10.0	10.2	10.4	10.5	10.4	10.3	10.2	---	9.9	9.8	9.9
8	9.8	10.1	10.3	10.4	10.5	10.4	10.3	10.2	---	9.9	9.8	9.9
9	9.9	10.1	10.3	10.4	---	10.4	10.3	10.2	---	9.8	9.8	9.9
10	9.9	10.1	10.3	10.4	10.5	10.4	10.3	10.1	---	9.9	9.8	9.9

Table 7. *Daily mean water levels and water temperatures from pressure transducers and thermistors in borehole EI-25 at north site, water year 1991*--Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
					(Sensor L-33)--Continued							
					Mean water temperature, in degrees Celsius--Continued							
11	9.9	10.1	10.3	10.4	10.5	10.4	10.3	10.1	---	9.8	9.8	9.9
12	9.9	10.1	10.3	10.4	10.5	10.4	10.3	10.1	10.0	9.8	9.8	9.9
13	9.9	10.1	10.3	10.4	10.5	10.4	10.3	10.1	10.0	9.8	9.8	9.9
14	9.9	10.1	10.3	10.4	10.5	10.4	10.3	10.1	10.0	9.8	9.8	9.9
15	9.9	10.1	10.3	10.4	10.4	10.4	10.3	10.1	10.0	9.8	9.8	9.9
16	9.9	10.1	10.3	10.4	10.4	10.4	10.3	10.1	9.9	9.8	9.8	9.9
17	9.9	10.1	10.3	10.4	10.5	10.4	10.3	10.1	9.9	9.8	9.8	9.9
18	9.9	10.1	10.3	10.4	10.5	10.4	10.3	10.1	9.9	9.8	9.8	9.9
19	9.9	10.1	10.3	10.4	10.5	10.4	10.3	10.1	9.9	9.8	9.8	9.9
20	9.9	10.2	10.3	10.4	10.5	10.4	10.3	10.1	9.9	9.8	9.8	9.9
21	9.9	10.2	10.3	10.4	10.5	10.4	10.3	10.1	9.9	9.8	9.8	9.9
22	9.9	10.2	10.3	10.4	10.5	10.4	10.3	10.1	9.9	9.8	9.8	9.9
23	9.9	10.2	10.3	10.4	10.5	10.4	10.2	10.1	9.9	9.8	9.8	9.9
24	10.0	10.2	10.3	10.4	10.5	10.4	10.2	10.1	9.9	9.8	9.8	9.9
25	10.0	10.2	10.3	10.4	10.4	10.4	10.2	10.1	9.9	9.8	9.8	9.9
26	10.0	10.2	10.3	---	10.5	10.4	10.2	10.1	9.9	9.8	9.8	9.9
27	---	10.2	10.3	10.4	10.4	10.4	10.2	10.0	9.9	9.8	9.8	9.9
28	---	10.2	10.4	10.4	10.5	10.4	10.2	10.0	9.9	9.8	9.8	9.9
29	---	10.2	10.3	10.4	---	10.4	10.2	10.0	9.9	9.8	9.8	9.9
30	10.0	10.2	10.3	10.4	---	10.4	10.2	10.0	9.9	9.8	9.8	10.0
31	10.0	---	10.3	10.4	---	10.4	---	10.0	---	9.8	9.8	---
					(Sensor L-53)							
					Mean water level, in feet above sea level							
					Approximate sensor elevation 774 feet above sea level							
					Depth below land surface 53 feet							
1	823.45	822.59	822.72	823.92	823.92	822.69	824.52	824.64	824.24	823.32	822.07	820.96
2	823.43	822.54	822.88	824.16	823.96	822.79	824.54	824.74	824.22	823.36	821.84	820.80
3	823.31	822.68	822.55	824.27	823.83	823.25	824.50	824.67	824.20	823.28	821.89	820.71
4	823.23	822.74	823.16	824.18	823.69	823.10	824.44	824.64	824.30	823.22	822.00	820.77
5	823.14	822.51	822.88	824.10	823.60	822.72	824.40	824.50	824.31	823.17	822.00	820.64
6	823.01	822.77	823.03	824.47	823.62	822.89	824.24	824.65	---	823.08	821.98	820.65
7	823.30	822.99	822.97	824.50	823.69	823.36	824.17	824.87	---	823.08	821.98	820.60
8	823.46	822.80	823.06	824.20	823.56	823.33	824.09	824.84	---	823.23	821.84	820.40
9	823.42	822.60	823.07	824.37	823.44	823.55	824.40	824.76	---	823.15	821.88	820.30
10	823.21	822.64	823.12	824.30	823.44	823.60	824.71	824.80	---	823.05	821.89	820.43
11	823.20	822.72	822.83	823.97	823.51	823.31	824.83	824.74	---	823.00	821.93	820.35
12	823.19	822.89	822.78	824.04	823.27	823.04	824.76	824.57	824.01	822.91	821.89	820.16
13	822.93	822.80	823.24	823.82	822.81	823.24	824.59	824.44	824.01	822.98	821.73	820.11
14	822.74	822.60	823.22	823.74	822.96	823.61	824.45	824.41	823.89	823.08	821.58	819.95
15	823.10	822.55	822.93	823.81	823.37	823.85	824.49	824.42	823.87	823.06	821.47	819.96
16	822.94	822.72	823.32	823.82	823.15	823.83	824.65	824.38	824.06	823.01	821.33	820.05
17	822.58	822.82	822.99	823.97	823.19	823.49	824.72	824.40	824.05	822.83	821.30	820.04
18	822.93	822.55	822.89	823.98	823.07	823.55	824.59	824.72	824.04	822.67	821.34	820.13
19	823.06	822.55	823.23	823.66	823.29	823.71	824.72	824.84	824.07	822.58	821.39	820.35
20	822.78	822.50	823.30	823.82	823.26	823.42	824.89	824.72	823.95	822.57	821.36	820.31

Table 7. *Daily mean water levels and water temperatures from pressure transducers and thermistors in borehole EI-25 at north site, water year 1991*--Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
					(Sensor L-53)--Continued							
					Mean water level, in feet above sea level--Continued							
21	822.93	822.26	823.39	824.05	823.19	823.35	824.72	824.59	823.79	822.58	821.22	820.01
22	822.97	822.39	823.55	823.63	823.48	823.36	824.43	824.55	823.85	822.50	821.23	819.83
23	822.84	822.30	823.63	823.65	823.36	823.40	824.40	824.46	823.95	822.59	821.28	820.00
24	822.98	822.23	823.58	824.03	823.48	823.92	824.71	824.37	823.91	822.49	821.29	819.83
25	823.04	822.39	823.73	824.16	823.58	823.91	824.69	824.26	823.83	822.50	821.22	819.52
26	822.85	822.26	824.08	823.81	823.40	823.62	824.47	824.16	823.65	822.59	821.11	819.63
27	---	822.23	823.85	823.40	823.26	823.38	824.35	824.28	823.65	822.54	821.02	819.71
28	---	822.62	823.57	823.60	823.10	823.91	824.48	824.31	823.64	822.32	820.99	819.76
29	---	823.00	823.60	823.84	---	824.18	824.23	824.20	823.53	822.27	820.97	819.71
30	822.74	822.61	823.81	823.71	---	824.40	824.48	824.10	823.43	822.24	820.85	819.64
31	822.75	---	824.00	823.94	---	824.32	---	824.13	---	822.15	820.89	---
					Mean water temperature, in degrees Celsius							
					Approximate sensor elevation 774 feet above sea level							
1	10.2	10.2	10.2	10.2	10.2	10.2	10.3	10.3	10.3	10.3	10.3	10.3
2	10.2	10.2	10.2	10.2	10.2	10.2	10.3	10.3	10.3	10.3	10.3	10.3
3	---	10.2	10.2	10.2	10.2	10.2	10.3	10.3	10.3	10.3	10.3	10.3
4	10.2	10.2	10.2	10.2	10.2	10.2	10.3	10.3	10.3	10.3	10.3	10.3
5	10.2	10.2	10.2	10.2	10.2	10.3	10.3	10.3	10.3	10.3	10.3	10.3
6	10.2	10.2	10.2	10.2	10.2	10.2	10.3	10.3	---	10.3	10.3	10.3
7	10.2	10.2	10.2	10.2	10.2	10.2	10.3	10.3	---	10.3	10.3	10.3
8	10.2	10.2	10.2	10.2	10.2	10.2	10.3	10.3	---	10.3	10.3	10.3
9	10.2	10.2	10.2	10.2	---	10.2	10.3	10.3	---	10.3	10.3	10.3
10	10.2	10.2	10.2	10.2	10.2	10.3	10.3	10.3	---	10.3	10.3	10.3
11	10.2	10.2	10.2	10.2	10.2	10.3	10.3	10.3	---	10.3	10.3	10.3
12	10.2	10.2	10.2	10.2	10.2	10.3	10.3	10.3	10.3	10.3	10.3	10.3
13	10.2	10.2	10.2	10.2	10.2	10.3	10.3	10.3	10.3	10.3	10.3	10.3
14	10.2	10.2	10.2	10.2	10.2	10.2	10.3	10.3	10.3	10.3	10.3	10.3
15	10.2	10.2	10.2	10.2	10.2	10.3	10.3	10.3	10.3	10.3	10.3	10.3
16	10.2	10.2	10.2	10.2	10.2	10.3	10.3	10.3	10.3	10.3	10.3	10.3
17	10.2	10.2	10.2	10.2	10.2	10.3	10.3	10.3	10.3	10.3	10.3	10.2
18	10.2	10.2	10.2	10.2	10.2	10.3	10.3	10.3	10.3	10.3	10.3	10.2
19	10.2	10.2	10.2	10.2	10.2	10.3	10.3	10.3	10.3	10.3	10.3	10.2
20	10.2	10.2	10.2	10.2	10.2	10.3	10.3	10.3	10.3	10.3	10.3	10.2
21	10.2	10.2	10.1	10.2	10.2	10.3	10.3	10.3	10.3	10.3	10.3	10.2
22	10.2	10.2	10.1	10.2	10.2	10.3	10.3	10.3	10.3	10.3	10.3	10.2
23	10.2	10.2	10.1	10.2	10.2	10.3	10.3	10.3	10.3	10.3	10.3	10.2
24	10.2	10.2	10.2	10.2	10.2	10.3	10.3	10.3	10.3	10.3	10.3	10.2
25	10.2	10.2	10.2	10.2	10.2	10.3	10.3	10.3	10.3	10.3	10.3	10.2
26	10.2	10.2	10.1	---	10.2	10.3	10.3	10.3	10.3	10.3	10.3	10.2
27	---	10.2	10.2	10.2	10.2	10.3	10.3	10.3	10.3	10.3	10.3	10.2
28	---	10.2	10.2	10.2	10.2	10.3	10.3	10.3	10.3	10.3	10.3	10.2
29	---	10.2	10.2	10.2	---	10.3	10.3	10.3	10.3	10.3	10.3	10.2
30	10.2	10.2	10.2	10.2	---	10.3	10.3	10.3	10.3	10.3	10.3	10.2
31	10.2	---	10.2	10.2	---	10.3	---	10.3	---	10.3	10.3	---

Table 7. *Daily mean water levels and water temperatures from pressure transducers and thermistors in borehole EI-25 at north site, water year 1991*--Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
					(Sensor L-75)							
					Mean water level, in feet above sea level							
					Approximate sensor elevation 754 feet above sea level							
					Depth below land surface 75 feet							
1	789.47	789.48	789.69	790.11	790.51	789.06	789.65	789.70	790.05	789.23	788.51	788.13
2	789.46	789.45	789.83	790.24	790.58	788.97	789.65	789.80	790.06	789.28	788.34	788.02
3	789.42	789.58	789.57	790.29	790.54	789.33	789.59	789.76	790.06	789.24	788.40	787.94
4	789.38	789.67	789.99	790.25	790.41	789.20	789.51	789.75	790.17	789.19	788.50	788.02
5	789.34	789.48	789.83	790.27	790.35	788.86	789.46	789.66	790.21	789.15	788.52	787.91
6	789.27	789.69	789.91	790.54	790.34	788.90	789.30	789.78	---	789.07	788.52	787.93
7	789.47	789.88	789.85	790.59	790.41	789.27	789.22	789.97	---	789.07	788.54	787.91
8	789.64	789.79	789.88	790.41	790.31	789.23	789.13	789.99	---	789.21	788.45	787.78
9	789.69	789.63	789.87	790.51	790.16	789.37	789.35	789.95	---	789.15	788.51	787.72
10	789.58	789.64	789.88	790.47	790.15	789.41	789.63	789.99	---	789.06	788.53	787.84
11	789.56	789.75	789.65	790.24	790.23	789.18	789.75	789.97	---	789.01	788.59	787.80
12	789.58	789.91	789.53	790.27	790.08	788.89	789.71	789.85	789.64	788.94	788.58	787.67
13	789.44	789.87	789.82	790.13	789.74	788.95	789.57	789.77	789.79	789.01	788.45	787.66
14	789.31	789.70	789.82	790.06	789.81	789.27	789.47	789.76	789.69	789.13	788.35	787.53
15	789.54	789.63	789.58	790.12	790.09	789.45	789.50	789.79	789.65	789.12	788.28	787.57
16	789.49	789.75	789.87	790.14	789.94	789.46	789.62	789.78	789.78	789.08	788.19	787.68
17	789.25	789.86	789.66	790.28	790.01	789.19	789.69	789.81	789.77	788.92	788.19	787.70
18	789.47	789.64	789.55	790.29	789.95	789.17	789.59	790.09	789.75	788.78	788.25	787.80
19	789.60	789.62	789.80	790.08	790.06	789.28	789.69	790.22	789.77	788.71	788.33	788.02
20	789.44	789.59	789.86	790.17	790.06	789.05	789.83	790.16	789.68	788.71	788.31	788.01
21	789.54	789.38	789.91	790.37	790.00	788.94	789.74	790.07	789.54	788.73	788.21	787.78
22	789.63	789.48	790.01	790.07	790.17	788.95	789.51	790.06	789.59	788.68	788.23	787.67
23	789.57	789.38	790.06	790.10	790.09	788.94	789.46	790.02	789.68	788.79	788.31	787.82
24	789.68	789.29	790.02	790.40	790.12	789.36	789.71	789.97	789.65	788.72	788.34	787.72
25	789.75	789.42	790.08	790.47	790.15	789.34	789.72	789.91	789.59	788.75	788.30	787.48
26	789.63	789.36	790.31	790.19	789.92	789.07	789.56	789.84	789.46	788.84	788.23	787.61
27	---	789.29	790.18	789.97	789.71	788.84	789.43	789.96	789.46	788.82	788.17	787.70
28	---	789.58	789.99	790.16	789.49	789.21	789.55	790.01	789.46	788.64	788.15	787.76
29	---	789.90	789.93	790.38	---	789.43	789.36	789.94	789.38	788.63	788.13	787.75
30	789.57	789.64	790.02	790.28	---	789.60	789.55	789.90	789.31	788.62	788.04	787.71
31	789.59	---	790.17	790.45	---	789.51	---	789.94	---	788.54	788.07	---
					Mean water temperature, in degrees Celsius							
					Approximate sensor elevation 754 feet above sea level							
1	10.1	10.1	10.1	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
2	10.1	10.1	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
3	---	10.1	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
4	10.1	10.1	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
5	10.1	10.0	10.1	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
6	10.1	10.0	10.0	10.0	10.0	10.0	10.0	10.0	---	10.0	10.0	10.0
7	10.1	10.1	10.0	10.0	10.0	10.0	10.0	10.0	---	10.0	10.0	10.1
8	10.1	10.0	10.0	10.0	10.0	10.0	10.0	10.0	---	10.0	10.0	10.0
9	10.1	10.1	10.0	10.0	---	10.0	10.0	10.0	---	10.0	10.0	10.0
10	10.1	10.1	10.0	10.0	10.0	10.0	10.0	10.0	---	10.0	10.0	10.0

Table 7. *Daily mean water levels and water temperatures from pressure transducers and thermistors in borehole EI-25 at north site, water year 1991*--Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
						(Sensor L-75)--Continued						
						Mean water temperature, in degrees Celsius--Continued						
11	10.1	10.1	10.1	10.0	10.0	10.0	10.0	10.0	---	10.0	10.0	10.0
12	10.1	10.1	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
13	10.1	10.1	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
14	10.1	10.1	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
15	10.1	10.1	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
16	10.1	10.1	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
17	10.1	10.1	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
18	10.1	10.1	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
19	10.1	10.1	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
20	10.1	10.1	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
21	10.1	10.1	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
22	10.1	10.1	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
23	10.1	10.1	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
24	10.1	10.1	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
25	10.1	10.1	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
26	10.1	10.1	10.0	---	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
27	---	10.1	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
28	---	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
29	---	10.0	10.0	10.0	---	10.0	10.0	10.0	10.0	10.0	10.0	10.0
30	10.1	10.0	10.0	10.0	---	10.0	10.0	10.0	10.0	10.0	10.0	10.0
31	10.1	---	10.0	10.0	---	10.0	---	10.0	---	10.0	10.0	---

Table 8. *Daily mean water temperatures and median pH values for water in observation well EI-28, water year 1991*

[---, data not collected]

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
						Mean water temperature, in degrees Celsius						
1	14.9	13.1	11.5	8.9	---	---	---	7.5	8.7	9.9	11.3	---
2	14.8	13.1	11.3	8.9	---	---	---	7.6	---	9.9	11.3	---
3	14.8	13.0	11.3	8.8	---	---	---	7.6	---	10.0	11.4	12.5
4	14.7	12.9	11.3	8.7	---	---	---	7.7	---	10.0	11.4	---
5	14.6	12.9	11.3	8.7	---	---	---	7.7	8.8	10.1	11.4	---
6	14.6	12.8	11.2	8.6	---	---	---	7.7	8.9	10.1	11.5	12.5
7	14.5	12.8	11.1	8.6	---	---	---	7.8	8.9	10.2	11.5	12.5
8	14.5	12.8	11.1	8.5	---	---	---	7.9	9.0	10.2	11.6	12.6
9	14.4	12.7	11.0	8.5	---	---	---	7.9	9.0	10.2	11.6	12.6
10	14.3	12.6	10.9	8.4	---	---	---	7.9	9.1	10.3	11.6	12.6
11	14.3	12.6	10.9	8.3	---	---	---	8.0	9.1	10.4	11.7	12.6
12	14.2	12.5	10.9	8.3	---	---	---	8.0	9.2	10.4	11.8	12.7
13	14.1	12.4	10.8	8.2	---	---	---	8.0	9.2	10.4	11.8	12.7
14	14.0	12.4	10.7	8.2	---	---	---	8.1	9.2	10.5	11.8	12.7
15	14.1	12.3	10.6	8.2	---	---	---	8.1	9.2	10.5	11.8	12.7
16	14.3	12.3	10.5	8.1	---	---	---	8.1	9.2	10.6	11.9	12.8
17	14.3	12.2	10.3	8.1	---	---	---	8.2	9.3	10.6	11.9	12.8
18	14.2	12.1	10.2	8.1	---	---	---	8.2	9.4	10.7	11.9	12.8
19	14.1	12.1	10.1	8.1	---	---	---	8.2	9.4	10.7	12.0	12.9
20	14.0	12.0	10.1	8.0	---	---	---	8.3	9.4	10.7	12.0	12.9
21	14.0	12.0	9.9	8.0	---	---	---	8.3	9.5	10.8	12.1	12.9
22	13.9	11.9	9.8	7.9	---	---	---	8.3	9.5	10.8	12.1	12.9
23	13.8	11.9	9.7	7.9	---	---	---	8.4	9.5	10.9	12.1	12.9
24	13.7	11.8	9.6	7.8	---	---	---	8.4	9.6	10.9	12.1	13.0
25	13.6	11.8	9.5	7.8	---	---	7.3	8.4	9.6	11.0	12.2	13.0
26	13.6	11.7	9.4	---	---	---	7.4	8.5	9.7	11.0	12.2	13.0
27	13.5	11.7	9.3	---	---	---	7.4	8.5	9.7	11.0	12.2	13.0
28	13.4	11.6	9.3	---	---	---	7.4	8.6	9.8	11.1	12.3	13.0
29	13.3	11.6	9.1	---	---	---	7.5	8.6	9.8	11.1	12.3	13.1
30	13.3	11.5	9.0	---	---	---	7.5	8.6	9.9	11.2	---	13.1
31	13.2	---	9.0	---	---	---	---	8.7	---	11.2	---	---
						Median pH, in standard units						
1	7.1	7.3	7.1	7.1	---	---	---	7.4	7.1	7.1	7.0	---
2	7.1	7.3	7.1	7.1	---	---	---	7.4	---	7.1	7.0	---
3	7.1	7.3	7.2	7.1	---	---	---	7.4	---	7.1	6.9	7.2
4	7.2	7.4	7.3	7.1	---	---	---	7.4	---	7.1	6.9	---
5	7.2	7.3	7.3	7.1	---	---	---	7.4	7.1	7.1	6.9	---
6	7.2	7.3	7.3	7.1	---	---	---	7.4	7.1	7.1	6.9	7.2
7	7.2	7.3	7.3	7.1	---	---	---	7.4	7.1	7.1	7.0	7.2
8	7.2	7.3	7.4	7.1	---	---	---	7.3	7.1	7.1	7.0	7.1
9	7.2	7.3	7.4	7.1	---	---	---	7.3	7.1	7.1	7.0	7.1
10	7.2	7.1	7.4	7.1	---	---	---	7.3	7.1	7.1	7.0	7.1

Table 8. *Daily mean water temperatures and median pH values for water in observation well EI-28 water year 1991--Continued*

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
						Median pH, in standard units--Continued						
11	7.2	7.1	7.3	7.1	---	---	---	7.3	7.1	7.2	7.1	7.1
12	7.1	7.1	7.3	7.1	---	---	---	7.3	7.1	7.2	7.2	7.1
13	7.1	7.1	7.2	7.1	---	---	---	7.3	7.1	7.2	7.2	7.0
14	7.1	7.1	7.2	7.1	---	---	---	7.2	7.1	7.1	7.2	7.0
15	7.2	7.1	7.2	7.1	---	---	---	7.2	7.1	7.1	7.1	7.0
16	7.0	7.1	7.3	7.1	---	---	---	7.1	7.1	7.1	7.2	7.0
17	7.0	7.2	7.3	7.1	---	---	---	7.1	7.1	7.1	7.2	7.1
18	7.0	7.2	7.2	7.1	---	---	---	7.1	7.1	7.1	7.1	7.1
19	7.0	7.2	7.1	7.1	---	---	---	7.1	7.1	7.1	7.1	7.1
20	7.0	7.2	7.1	7.1	---	---	---	7.1	7.1	7.1	7.0	7.0
21	7.0	7.2	7.1	7.1	---	---	---	7.2	7.1	7.0	7.2	7.0
22	7.0	7.3	7.1	7.1	---	---	---	7.2	7.1	7.0	7.2	7.0
23	7.0	7.3	7.1	7.1	---	---	---	7.2	7.1	7.0	7.1	7.0
24	7.0	7.3	7.1	7.1	---	---	---	7.2	7.1	7.0	7.1	7.1
25	7.0	7.2	7.1	7.1	---	---	7.4	7.2	7.1	7.0	7.0	7.1
26	7.0	7.2	7.1	---	---	---	7.5	7.1	7.1	7.1	7.0	7.1
27	7.0	7.2	7.1	---	---	---	7.5	7.1	7.1	7.1	7.0	7.1
28	7.1	7.1	7.1	---	---	---	7.5	7.1	7.1	7.0	7.1	7.1
29	7.2	7.1	7.1	---	---	---	7.5	7.1	7.1	7.0	---	7.1
30	7.2	7.1	7.1	---	---	---	7.4	7.1	7.1	7.0	---	7.1
31	7.2	---	7.1	---	---	---	---	7.1	---	7.1	---	---

Table 9. *Chemical characteristics in water from selected observation wells, May-August 1991*

[µS/cm, microsiemens per centimeter at 25 degrees Celsius; °C, degrees Celsius; mg/L, milligrams per liter; µg/L, micrograms per liter; <, less than; --, data not collected]

Well no.	Date	Time (24-hour)	Specific conduct-ance (µS/cm)	pH (standard units)	Temper-ature, water (°C)	Calcium (mg/L)	Magne-sium (mg/L)	Sodium (mg/L)	Potas-sium (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)
EI-2	6-07-91	1100	800	7.2	13.0	59	15	110	4.6	72	12	0.2
	7-03-91	1000	790	7.4	15.5	64	16	87	6.7	--	9.7	.5
	8-02-91	0850	734	7.0	15.0	--	--	--	--	--	6.5	--
	8-27-91	0955		7.3	14.0	57	13	88	4.9	48	4.6	.5
EI-3	5-31-91	1145	---	---	---	89	24	48	4.6	150	11	.5
	8-02-91	0840	897	7.0	16.0	--	--	--	--	--	6.0	--
	8-27-91	0940	880	7.3	14.0	74	18	100	5.0	120	4.1	.7
EI-4	5-31-91	1245	524	8.1	13.5	69	20	19	3.0	16	<.1	.7
	7-03-91	1200	570	7.4	13.0	69	20	17	3.4	--	.1	.7
	8-02-91	0835	575	6.7	15.0	--	--	--	--	--	2.9	--
	8-27-91	0945	570	7.3	14.5	73	22	19	3.1	13	1.2	.7
EI-5	6-06-91	1250	1090	---	14.5	--	--	--	--	--	--	--
	8-01-91	1225	1160	7.0	17.0	--	--	--	--	--	8.8	--
	8-27-91	1025	1110	7.3	15.5	110	27	100	7.0	230	8.6	.4
EI-6	6-06-91	1020	---	---	---	120	31	41	5.5	--	--	--
	8-01-91	1215	1210	7.0	16.0	--	--	--	--	--	13	--
	8-27-91	1035	1250	7.0	---	--	--	--	--	--	--	--
EI-7	6-06-91	1000	554	7.3	13.0	71	22	17	2.8	5.3	1.7	.2
	7-03-91	1310	550	7.5	13.5	70	21	15	2.3	--	2.5	.7
	8-01-91	1205	574	6.9	17.0	--	--	--	--	--	1.9	--
	8-27-91	1045	545	7.3	18.0	68	21	15	3.0	6.9	1.3	.7
EI-8	6-07-91	1250	588	---	13.0	78	25	18	3.3	14	1.5	.2
	7-03-91	1250	600	7.5	14.0	86	23	5.9	.7	--	7.4	.2
	8-01-91	1240	588	6.9	18.0	--	--	--	--	--	--	--
	8-27-91	1010	600	7.3	16.5	83	23	9.6	.8	33	9.5	.2
EI-9	6-07-91	1230	590	7.4	14.5	86	24	7.7	.7	27	11	.1
	7-03-91	1300	600	7.5	13.5	77	22	16	3.5	--	1.9	.6
	8-01-91	1250	586	7.0	17.0	--	--	--	--	--	2.9	--
	8-27-91	1020	600	7.4	16.0	76	25	16	3.2	10	1.6	.6
EI-10	6-07-91	0930	718	7.3	12.5	100	27	13	1.4	39	7.1	.1
	7-03-91	1230	705	7.4	13.5	100	26	12	1.5	--	5.8	.2
	8-01-91	1120	694	7.0	16.0	--	--	--	--	--	6.6	--
	8-27-91	1115	715	7.3	16.5	100	27	14	1.7	46	4.9	.2
EI-11	6-06-91	1310	660	7.9	14.0	71	24	43	3.4	38	5.7	.2
	7-03-91	12	640	7.5	12.0	69	22	32	3.0	--	2.9	.7
	8-01-91	1130	601	7.3	14.0	--	--	--	--	--	1.4	--
	8-27-91	1120	610	7.3	14.0	71	22	31	3.0	28	1.9	.8

Table 9. *Chemical characteristics in water from selected observation wells, May-August 1991--* Continued

Well no.	Date	Time (24-hour)	Specific conductance (µS/cm)	pH (standard units)	Temperature, water (°C)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Potassium (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)
EI-12	6-06-91	1145	828	7.3	13.0	120	32	19	1.7	52	8.2	0.6
	7-03-91	1200	860	7.4	14.5	120	32	14	1.9	--	7.2	.1
	8-01-91	1045	733	7.1	16.0	--	--	--	--	--	7.8	--
	8-27-91	1130	790	7.3	18.5	120	32	12	1.7	54	5.2	.2
EI-13	6-07-91	1150	586	7.4	13.0	81	26	7.8	1.5	29	1.6	.1
	7-03-91	1215	590	7.5	12.5	80	23	6.5	1.6	--	3.2	.4
	8-01-91	1100	517	7.1	19.0	--	--	--	--	--	3.9	--
	8-27-91	1140	580	7.4	14.5	80	26	6.7	1.7	30	2.7	.4
EI-14	6-07-91	1210	566	7.4	13.0	77	24	6.6	1.8	24	4.4	.1
	7-03-91	1225	580	7.6	12.5	79	23	6.5	2.0	--	3.3	.4
	8-01-91	1115	569	7.3	14.0	--	--	--	--	--	3.8	--
	8-27-91	1150	570	7.4	15.0	78	25	6.7	1.8	24	2.5	.4
EI-17	6-07-91	1045	539	8.3	12.5	69	22	14	2.9	40	4.3	.6
	7-03-91	1030	800	7.5	12.0	73	23	18	3.4	--	3.4	.7
	8-01-91	1310	598	7.1	16.0	--	--	--	--	--	3.5	--
	8-27-91	0940	620	7.3	13.5	75	24	25	3.4	30	1.7	.7
EI-18	5-31-91	1300	518	8.1	12.5	69	21	13	2.6	150	.1	.1
	7-03-91	1040	560	7.6	13.0	71	21	14	2.7	--	1.3	.5
	8-01-91	1300	562	7.2	16.0	--	--	--	--	--	1.2	--
	8-28-91	0930	560	7.3	14.5	69	22	14	2.8	16	1.9	.5
IE-19	5-31-91	1020	280	9.2	12.0	18	13	21	3.7	42	1.1	.2
	7-03-91	1045	585	7.7	12.5	69	21	21	2.1	--	3.1	.4
	8-01-91	0820	574	7.2	16.0	--	--	--	--	--	3.5	--
	8-27-91	0915	580	7.2	15.5	70	22	27	2.4	39	--	.3
EI-20	6-07-91	1040	865	---	12.0	85	23	76	5.0	62	15	.1
	7-03-91	1050	850	7.5	13.5	86	23	63	5.2	--	11	.2
	8-02-91	0810	795	7.0	16.0	--	--	--	--	--	11	--
	8-27-91	0910	790	7.3	18.0	--	--	--	--	--	--	--
EI-22	6-*07-91	1230	570	7.7	13.5	69	22	18	4.5	13	1.5	.5
	7-03-91	1310	560	7.6	13.5	71	20	16	4.0	--	3.9	.7
	8-02-91	1200	562	7.0	17.0	--	--	--	--	--	3.1	--
	8-27-91	1050	550	7.4	15.5	110	32	21	2.3	71	3.7	.2
EI-23	6-06-91	1100	586	7.4	11.5	72	23	19	2.8	12	1.7	.7
	7-03-91	1315	585	7.5	13.5	73	21	17	3.0	--	1.9	.7
	8-01-91	1245	574	7.0	17.0	--	--	--	--	--	2.9	--
	8-27-91	1100	570	7.4	16.5	72	23	17	3.0	12	<.1	.6
EI-24	6-06-91	1120	920	7.2	14.5	110	33	48	2.6	110	7.5	.1
	8-01-91	1140	831	7.0	18.0	--	--	--	--	--	6.8	--
	8-27-91	1105	785	7.3	18.0	69	22	16	3.8	7.3	.8	.6

Table 9. *Chemical characteristics in water from selected observation wells, May-August 1991*--Continued

Well no.	Date	Time (24-hour)	Bromide (mg/L)	Silica (mg/L)	Iron (µg/L)	Manganese (µg/L)	Nitrate, total (mg/L as N)	Nitrate, dissolved (mg/L as N)	Nitrite, total (mg/L as N)	Nitrite, dissolved (mg/L as N)	Nitrite plus nitrate, total (mg/L as N)	Nitrite plus nitrate, dissolved (mg/L as N)
EI-2	6-07-91	1100	--	14	14	250	0.25	--	0.04	--	0.33	0.25
	7-03-91	1000	--	13	14	940	--	.06	--	< .01	--	.21
	8-02-91	0850	--	--	--	--	.80	.87	< .01	< .01	.81	.88
	8-27-91	0955	--	13	8	260	--	.74	--	.01	--	.76
EI-3	5-31-91	1145	--	12	210	1,500	< .01	--	.01	--	.01	.05
	8-02-91	0840	--	--	--	--	.77	.88	.02	.01	.79	.89
	8-27-91	0940	--	15	8	820	--	.53	--	.03	--	.56
EI-4	5-31-91	1245	<0.01	23	49	880	.02	--	.03	--	.05	.06
	7-03-91	1200	--	23	7	920	--	.01	--	< .01	--	.02
	8-02-91	0835	--	--	--	--	< .01	.01	.01	< .01	.01	.01
	8-27-91	0945	< .01	24	3	1,000	--	.02	--	< .01	--	.03
EI-5	6-06-91	1250	--	--	--	--	.03	--	.08	--	.11	--
	8-01-91	1225	--	--	--	--	.06	.07	.01	.01	.07	.07
	8-27-91	1025	--	14	16	1,700	--	.34	--	.06	--	.39
EI-6	6-06-91	1020	--	--	1400	2,100	.03	--	.07	--	.11	--
	8-01-91	1215	--	--	--	--	.44	.53	.15	.13	.59	.67
	8-27-91	1035	--	--	--	--	--	--	--	< .01	--	1.2
EI-7	6-06-91	1000	--	25	250	390	.01	--	.01	--	.02	.05
	7-03-91	1310	< .01	24	44	400	--	.01	--	< .01	--	.01
	8-01-91	1205	--	--	--	--	< .01	.01	.02	< .01	.01	.01
	8-27-91	1045	< .01	23	4	320	--	.01	--	< .01	--	.01
EI-8	6-07-91	1250	--	25	12	1,300	.01	--	.02	--	.03	.05
	7-03-91	1250	< .01	14	4	16	--	.07	--	< .01	--	.08
	8-01-91	1240	--	--	--	--	.11	.11	< .01	< .01	.12	.12
	8-27-91	1010	.02	16	3	24	--	--	--	< .01	--	.16
EI-9	6-07-91	1230	--	14	5	2	.08	--	.01	--	.09	.09
	7-03-91	1300	--	25	5	1,300	--	.01	--	< .01	--	.01
	8-01-91	1250	--	--	--	--	< .01	.01	.01	< .01	.01	.01
	8-27-91	1020	< .01	24	9	1,300	--	.01	--	< .01	--	.02
EI-10	6-07-91	0930	--	16	7	41	.47	--	.03	--	.51	.49
	7-03-91	1230	.02	16	8	14	--	.47	--	.01	--	.48
	8-01-91	1120	--	--	--	--	.41	.45	.01	< .01	.41	.45
	8-27-91	1115	.02	17	4	90	--	--	--	< .01	--	.59
EI-11	6-06-91	1310	--	17	51	770	.02	--	.05	--	.07	.08
	7-03-91	12	--	22	3	950	--	.09	--	.01	--	.09
	8-01-91	1130	--	--	--	--	.09	.10	.01	.01	.10	.11
	8-27-91	1120	.02	22	3	750	--	.06	--	.01	--	.07

Table 9. *Chemical characteristics in water from selected observation wells, May-August 1991*--Continued

Well no.	Date	Time (24-hour)	Bromide (mg/L)	Silica (mg/L)	Iron (µg/L)	Manganese (µg/L)	Nitrate, total (mg/L as N)	Nitrate, dissolved (mg/L as N)	Nitrite, total (mg/L as N)	Nitrite, dissolved (mg/L as N)	Nitrite plus nitrate, total (mg/L as N)	Nitrite plus nitrate, dissolved (mg/L as N)
EI-12	6-06-91	1145	--	17	4	6	0.35	--	0.01	--	0.36	0.28
	7-03-91	1200	<0 .01	18	5	9	--	0.28	--	0.01	--	.29
	8-01-91	1045	--	--	--	--	.41	.45	.01	< .01	.42	.45
	8-27-91	1130	< .01	19	4	8	--	--	--	< .01	--	.66
EI-13	6-07-91	1150	--	23	4	13	1.1	--	.03	--	1.1	2.1
	7-03-91	1215	< .01	23	10	9	--	.63	--	.01	--	.64
	8-01-91	1100	--	--	--	--	1.3	1.2	.01	.01	1.3	1.2
	8-27-91	1140	< .01	22	5	180	--	1.9	--	.01	--	1.9
EI-14	6-07-91	1210	--	23	3	7	2.0	--	< .01	--	2.0	1.8
	7-03-91	1225	--	23	8	7	--	.63	--	.01	--	.64
	8-01-91	1115	--	--	--	--	1.3	1.4	.01	.01	1.3	1.4
	8-27-91	1150	.01	22	10	10	--	--	--	< .01	--	1.9
EI-17	6-07-91	1045	--	20	18	830	.03	--	.02	--	.05	.18
	7-03-91	1030	--	22	27	1,300	--	.01	--	.01	--	.02
	8-01-91	1310	--	--	--	--	.03	.03	.01	.01	.04	.04
	8-27-91	0940	< .01	22	5	970	--	.03	--	< .01	--	.04
EI-18	5-31-91	1300	--	21	26	690	.69	--	.03	--	.72	.56
	7-03-91	1040	--	22	9	1,800	--	.35	--	.06	--	.42
	8-01-91	1300	--	--	--	--	.19	.22	.10	.09	.28	.32
	8-28-91	0930	.01	20	4	1,100	--	.21	--	.07	--	.28
IE-19	5-31-91	1020	--	18	14	4	2.7	--	.07	--	2.8	.90
	7-03-91	1045	--	23	5	17	--	.86	--	.01	--	.87
	8-01-91	0820	--	--	--	--	1.3	2.0	.02	.01	1.3	2.0
	8-27-91	0915	< .01	22	3	18	--	2.8	--	.01	--	2.8
EI-20	6-07-91	1040	--	18	6	12	1.1	--	.02	--	1.1	1.1
	7-03-91	1050	--	17	15	480	--	.31	--	.04	--	.35
	8-02-91	0810	--	--	--	--	.95	.87	.01	< .01	.96	.87
	8-27-91	0910	--	--	--	--	--	1.1	--	.08	--	1.2
EI-22	6-*07-91	1230	--	20	21	820	.03	--	.04	--	.07	.05
	7-03-91	1310	--	23	10	990	--	< .01	--	< .01	--	.01
	8-02-91	1200	--	--	--	--	< .01	.01	< .01	< .01	.01	.01
	8-27-91	1050	.03	18	19	2,800	--	.07	--	.01	--	.08
EI-23	6-06-91	1100	.01	24	38	570	.02	--	< .01	--	.03	.05
	7-03-91	1315	<.01	25	6	1,100	--	.01	--	< .01	--	.01
	8-01-91	1245	--	--	--	--	.05	.04	.01	.01	.06	.05
	8-27-91	1100	<.01	24	6	890	--	.06	--	.01	--	.07
EI-24	6-06-91	1120	.021	18	40	2,000	.02	--	.01	--	.02	.05
	8-01-91	1140	--	--	--	--	.02	.04	.02	.01	.04	.05
	8-27-91	1105	<.01	22	7	840	--	--	--	< .01	--	.01

Table 9. *Chemical characteristics in water from selected observation wells, May-August 1991--* Continued

Well no.	Date	Time (24-hour)	Ammonia, total (mg/L as N)	Ammonia, dissolved (mg/L as N)	Ortho-phos-phorus, total (mg/L as P)	Ortho-phos-phorus, dissolved (mg/L as P)	Alachlor (µg/L)	Ametryn (µg/L)	Atrazine (µg/L)	Cyan-azine (µg/L)	Desethyl-atrazine (µg/L)	Desiso-propyl-atrazine (µg/L)
EI-2	6-07-91	1100	0.07	--	0.03	---	<0.05	<0.05	<0.05	<0.20	<0.05	<0.05
	7-03-91	1000	--	0.34	---	0.07	---	---	---	---	---	---
	8-02-91	0850	.01	< .01	.02	<.01	---	---	---	---	---	---
	8-27-91	0955	--	.04	--	<.01	---	---	---	---	---	---
EI-3	5-31-91	1145	.31	--	.01	---	< .05	< .05	< .05	< .20	< .05	< .05
	8-02-91	0840	.04	.01	.03	.01	---	---	---	---	---	---
	8-27-91	0940	--	.10	--	<.01	---	---	---	---	---	---
EI-4	5-31-91	1245	.27	--	.01	---	< .05	< .05	< .05	< .20	< .05	< .05
	7-03-91	1200	--	.28	--	.02	---	---	---	---	---	---
	8-02-91	0835	.24	.23	.03	.01	---	---	---	---	---	---
	8-27-91	0945	--	.24	--	.01	---	---	---	---	---	---
EI-5	6-06-91	1250	.32	--	---	---	< .05	< .05	< .05	< .20	< .05	< .05
	8-01-91	1225	.35	.59	<.01	<.01	---	---	---	---	---	---
	8-27-91	1025	--	.49	<.01	<.01	---	---	---	---	---	---
EI-6	6-06-91	1020	.32	--	--	---	< .05	< .05	< .05	< .20	< .05	< .05
	8-01-91	1215	.31	.30	<.01	<.01	---	---	---	---	---	---
	8-27-91	1035	--	.01	.02	.02	---	---	---	---	---	---
EI-7	6-06-91	1000	.32	--	---	---	< .05	< .05	< .05	< .20	< .05	< .05
	7-03-91	1310	--	.26	.01	.01	---	---	---	---	---	---
	8-01-91	1205	.27	.24	.01	.01	---	---	---	---	---	---
	8-27-91	1045	--	.22	<.01	<.01	---	---	---	---	---	---
EI-8	6-07-91	1250	.27	--	---	---	< .05	< .05	< .05	< .20	< .05	< .05
	7-03-91	1250	--	.01	.01	.01	---	---	---	---	---	---
	8-01-91	1240	.02	.01	.01	.01	---	---	---	---	---	---
	8-27-91	1010	--	.01	.01	.01	---	---	---	---	---	---
EI-9	6-07-91	1230	.03	--	---	---	< .05	< .05	< .05	< .20	< .05	< .05
	7-03-91	1300	--	.20	.01	.01	---	---	---	---	---	---
	8-01-91	1250	.20	.20	.02	.02	---	---	---	---	---	---
	8-27-91	1020	--	.19	.01	.01	---	---	---	---	---	---
EI-10	6-07-91	0930	.10	--	---	---	< .05	< .05	< .05	< .20	< .05	< .05
	7-03-91	1230	--	.01	.02	.02	---	---	---	---	---	---
	8-01-91	1120	.02	.01	.02	.02	---	---	---	---	---	---
	8-27-91	1115	--	.01	.01	.01	---	---	---	---	---	---
EI-11	6-06-91	1310	.14	--	---	---	< .05	< .05	< .05	< .20	< .05	< .05
	7-03-91	12	--	.06	.03	.03	---	---	---	---	---	---
	8-01-91	1130	.04	.03	.03	.03	---	---	---	---	---	---
	8-27-91	1120	--	.08	.02	.02	---	---	---	---	---	---

Table 9. *Chemical characteristics in water from selected observation wells, May-August 1991--* Continued

Well no.	Date	Time (24-hour)	Ammonia, total (mg/L as N)	Ammonia, dissolved (mg/L as N)	Ortho-phos-phorus, total (mg/L as P)	Ortho-phos-phorus, dissolved (mg/L as P)	Alachlor (µg/L)	Ametryn (µg/L)	Atrazine (µg/L)	Cyan-azine (µg/L)	Desethyl-atrazine (µg/L)	Desiso-propyl-atrazine (µg/L)
El-12	6-06-91	1145	0.06	--	0.06	---	<0 .05	<0 .05	<0 .05	<0 .20	<0 .05	<0 .05
	7-03-91	1200	--	0.02	---	0.03	---	---	---	---	---	---
	8-01-91	1045	.04	.04	.04	.04	---	---	---	---	---	---
	8-27-91	1130	--	.01	---	.02	---	---	---	---	---	---
El-13	6-07-91	1150	.05	--	.05	---	< .05	< .05	< .05	< .20	< .05	< .05
	7-03-91	1215	--	.01	--	.01	---	---	---	---	---	---
	8-01-91	1100	.01	.01	.01	.01	---	---	---	---	---	---
	8-27-91	1140	--	.02	---	.01	---	---	---	---	---	---
El-14	6-07-91	1210	.03	--	.01	---	< .05	< .05	< .05	< .20	< .05	< .05
	7-03-91	1225	--	.01	---	<.01	---	---	---	---	---	---
	8-01-91	1115	.02	.01	.02	<.01	---	---	---	---	---	---
	8-27-91	1150	--	< .01	---	<.01	---	---	---	---	---	---
El-17	6-07-91	1045	.11	--	.03	---	< .05	< .05	< .05	< .20	< .05	< .05
	7-03-91	1030	--	.13	---	<.01	---	---	---	---	---	---
	8-01-91	1310	.07	.06	.01	.01	---	---	---	---	---	---
	8-27-91	0940	--	.10	---	.01	---	---	---	---	---	---
El-18	5-31-91	1300	.11	--	.02	---	< .05	< .05	< .05	< .20	< .05	< .05
	7-03-91	1040	--	.02	---	<.01	---	---	---	---	---	---
	8-01-91	1300	.06	.05	.02	.01	---	---	---	---	---	---
	8-28-91	0930	--	.07	---	.01	---	---	---	---	---	---
lE-19	5-31-91	1020	.04	--	.04	---	< .05	< .05	< .05	< .20	< .05	< .05
	7-03-91	1045	--	.01	---	<.01	---	---	---	---	---	---
	8-01-91	0820	< .01	< .01	.02	.01	---	---	---	---	---	---
	8-27-91	0915	--	.02	---	.01	---	---	---	---	---	---
EI-20	6-07-91	1040	.03	--	.02	---	< .05	< .05	< .05	< .20	< .05	< .05
	7-03-91	1050	--	.01	---	<.01	---	---	---	---	---	---
	8-02-91	0810	.02	.01	.02	.02	---	---	---	---	---	---
	8-27-91	0910	--	.20	---	<.01	---	---	---	---	---	---
EI-22	6-*07-91	1230	.28	--	.01	---	< .05	< .05	< .05	< .20	< .05	< .05
	7-03-91	1310	--	.22	---	.02	---	---	---	---	---	---
	8-02-91	1200	.20	.20	.01	<.01	---	---	---	---	---	---
	8-27-91	1050	--	.11	---	.01	---	---	---	---	---	---
El-23	6-06-91	1100	.15	--	.04	---	< .05	< .05	< .05	< .20	< .05	< .05
	7-03-91	1315	--	.12	---	.03	---	---	---	---	---	---
	8-01-91	1245	.09	.08	.03	.03	---	---	---	---	---	---
	8-27-91	1100	--	.12	---	.02	---	---	---	---	---	---
El-24	6-06-91	1120	.03	--	<.01	---	< .05	< .05	< .05	< .20	< .05	< .05
	8-01-91	1140	.35	.51	.10	.07	--	---	---	---	---	---
	8-27-91	1105	--	.21	---	<.01	--	---	---	---	---	---
Rainfall								< .05	1.2	.60	.41	.24
								< .05	.63	.20	.17	< .05