

INSTRUMENTATION AND DATA FOR A STUDY OF SEASONALLY FROZEN SOIL IN
SOUTHEASTERN NORTH DAKOTA

By Douglas G. Emerson, U.S. Geological Survey,
M. D. Sweeney, North Dakota Agricultural Experiment Station, and
Valerie M. Dressler and Steven W. Norbeck, U.S. Geological Survey

U.S. GEOLOGICAL SURVEY

Open-File Report 90-107

Prepared in cooperation with the
NORTH DAKOTA STATE WATER COMMISSION

Bismarck, North Dakota

1990



UNITED STATES DEPARTMENT OF THE INTERIOR

MANUEL LUJAN, JR., Secretary

U.S. GEOLOGICAL SURVEY

Dallas L. Peck, Director

For additional
information write to:

District Chief
U.S. Geological Survey
Water Resources Division
821 East Interstate Avenue
Bismarck, ND 58501

Copies of this report can be
purchased from:

U.S. Geological Survey
Books and Open-File Reports
Federal Center, Bldg. 810
Box 25425
Denver, CO 80225

CONTENTS

	<u>Page</u>
Abstract-----	1
Introduction-----	1
Instrumentation and data collection-----	4
Precipitation-----	5
Air temperature-----	5
Radiation-----	5
Ground-water level-----	6
Surface runoff-----	6
Soil water content-----	6
Soil temperature-----	12
Physical and chemical descriptions of soils-----	13
References-----	14

ILLUSTRATIONS

Figure 1. Map showing location of study area, plots, and instrumentation sites-----	2
2. Graph showing relation between volumetric soil water content and count ratio-----	7
3. Diagrammatic representation of the installation of time-domain reflectometry probes-----	9
4. Diagrammatic representation of a time-domain reflectometry trace-----	10
5. Diagrammatic representation of the installation of a soil temperature profile probe-----	12

TABLES

Table 1. Relative land-surface elevations-----	15
2. Precipitation data-----	16
3. Snow survey data-----	17
4. Air temperature data-----	18
5. Global solar radiation data-----	19
6. Reflected solar radiation data-----	20
7. Net radiation data-----	21
8. Ground-water level data-----	22
9. Surface runoff data-----	23
10. Periodical soil water content and soil temperature data for site 1-----	24
11. Periodical soil water content data for site 2-----	33
12. Periodical soil water content and soil temperature data for site 3-----	40
13. Periodical soil water content data for site 4-----	49
14. Periodical soil water content and soil temperature data for site 5-----	55

TABLES, Continued

	<u>Page</u>
Table 15. Periodical soil water content data for site 6-----	65
16. Periodical soil water content and soil temperature data for site 7-----	71
17. Periodical soil water content data for site 8-----	80
18. Periodical soil water content and soil temperature data for site 9-----	87
19. Daily mean recorded soil temperature data (degrees Celsius), for site 2-----	96
20. Daily mean recorded soil temperature data (degrees Celsius), for site 4-----	112
21. Daily mean recorded soil temperature data (degrees Celsius), for site 5-----	128
22. Daily mean recorded soil temperature data (degrees Celsius), for site 6-----	143
23. Daily mean recorded soil temperature data (degrees Celsius), for site 8-----	159
24. Soil descriptions-----	175
25. Particle-size analyses of soil-----	179
26. Inorganic and organic carbon analyses of soil-----	182
27. Saturation extract soluble ion analyses of soil-----	185

SELECTED FACTORS FOR CONVERTING METRIC UNITS
TO INCH-POUND UNITS

For those readers who may prefer to use inch-pound units rather than metric units, the conversion factors for the terms used in this report are given below.

Multiply metric unit	by	To obtain inch-pound unit
centimeter (cm)	0.3937	inch (in.)
kilometer (km)	0.6214	mile (mi)
liter (L)	0.2642	gallon (gal)
meter (m)	3.281	foot (ft)
micrometer (μm)	0.00003937	inch (in.)
millimeter (mm)	0.03937	inch (in.)
millimeter per nanosecond (mm/ns)	0.03937	inch per nanosecond (in/ns)
square kilometer (km^2)	0.3861	square mile (mi^2)

To convert degrees Celsius ($^{\circ}\text{C}$) to degrees Fahrenheit ($^{\circ}\text{F}$), use the following formula: $^{\circ}\text{F} = 9/5(^{\circ}\text{C}) + 32$.

Use of brand, firm, or trade names in this report is for identification purposes only and does not constitute endorsement by the U.S. Geological Survey.

INSTRUMENTATION AND DATA FOR A SEASONALLY FROZEN SOIL STUDY IN SOUTHEASTERN NORTH DAKOTA

By Douglas G. Emerson, U.S. Geological Survey,
M. D. Sweeney, North Dakota Agricultural Experiment Station,
and
Valerie M. Dressler and Steven W. Norbeck, U.S. Geological Survey

ABSTRACT

The instrumentation that was used to collect data for an investigation of the heat and water transfer through soils during freezing and thawing is described. The study area is 11.3 kilometers southeast of Oakes, N.Dak. Three runoff plots were established. Snow depth, runoff, soil water content, and soil temperature data were collected for each runoff plot. Precipitation, snow density, air temperature, radiation, and ground-water level data also were collected in the study area. The data that were collected during the investigation are presented.

INTRODUCTION

The U.S. Geological Survey, in cooperation with the North Dakota State Water Commission, began an investigation in 1985 to evaluate the heat and water transfer through soils during freezing and thawing. The objectives of the investigation are to: (1) Collect hydrologic, meteorologic, and soil data in a study area; (2) evaluate the freezing and thawing processes; and (3) develop a physically based model that simulates the freezing and thawing processes and couple the model to the U.S. Geological Survey's precipitation-runoff modeling system. The purpose of this report is to describe the instrumentation and to present the data that were collected during the investigation.

A study area was selected 11.3 km southeast of Oakes, N.Dak., in the Drift Prairie district of the Central Lowland province (fig. 1). The study area is located in the northeast corner of a quarter section that is outside the area covered by a center-pivot irrigation system. Several center-pivot irrigation systems are in the vicinity and are operated during the growing season. The study area is cropped periodically. Rye was planted during the summer of 1985 as a cover crop. By the winter of 1985-86, the rye was about 100 mm high and provided a uniform cover. By the fall of 1986, the rye matured and bent over in clumps, which produced uneven cover. After the seeds had dropped for reseeding, the old rye was removed. By the winter of 1986-87, the self-seeded rye was about 100 mm high and provided a cover similar to that of the previous winter.

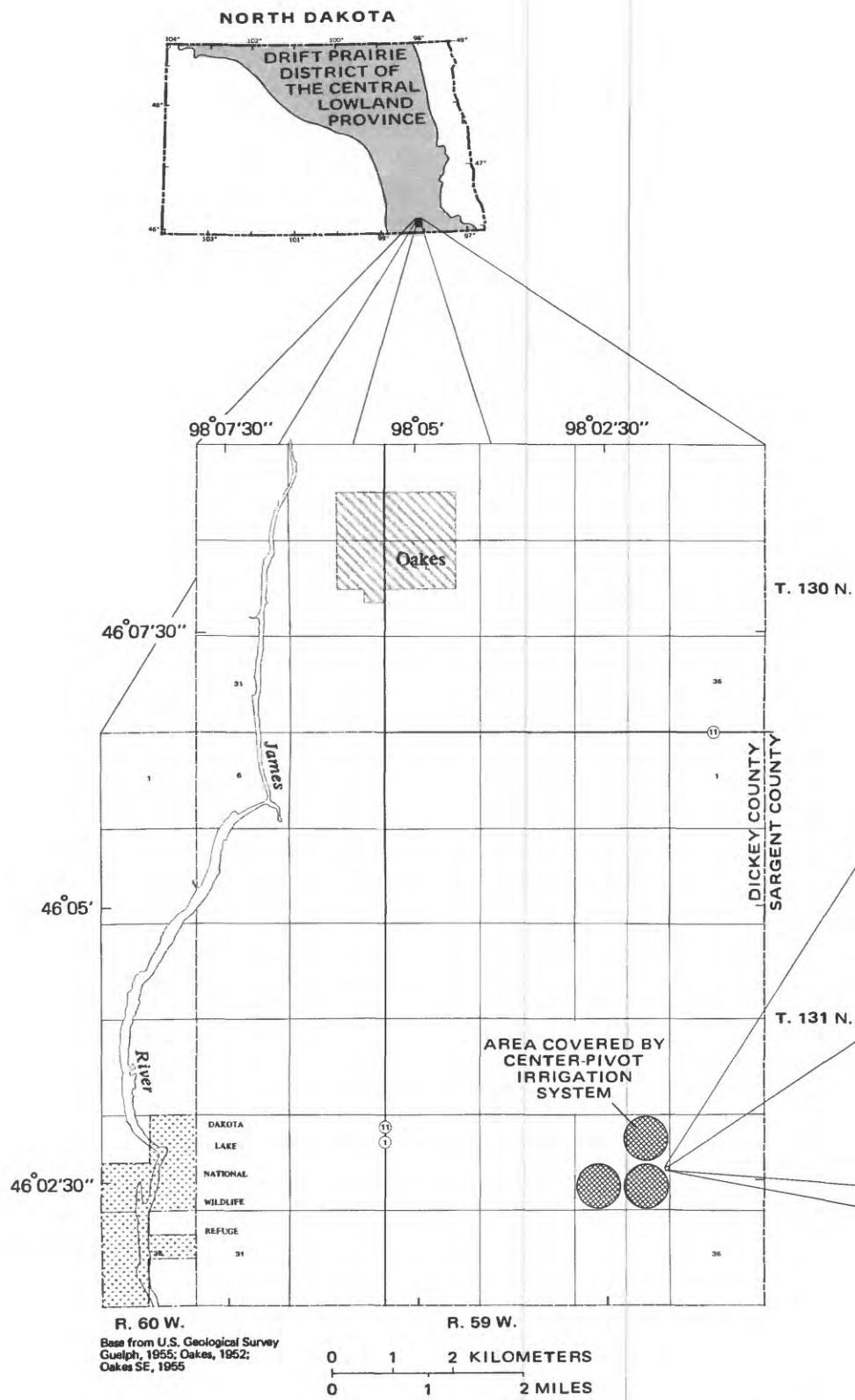
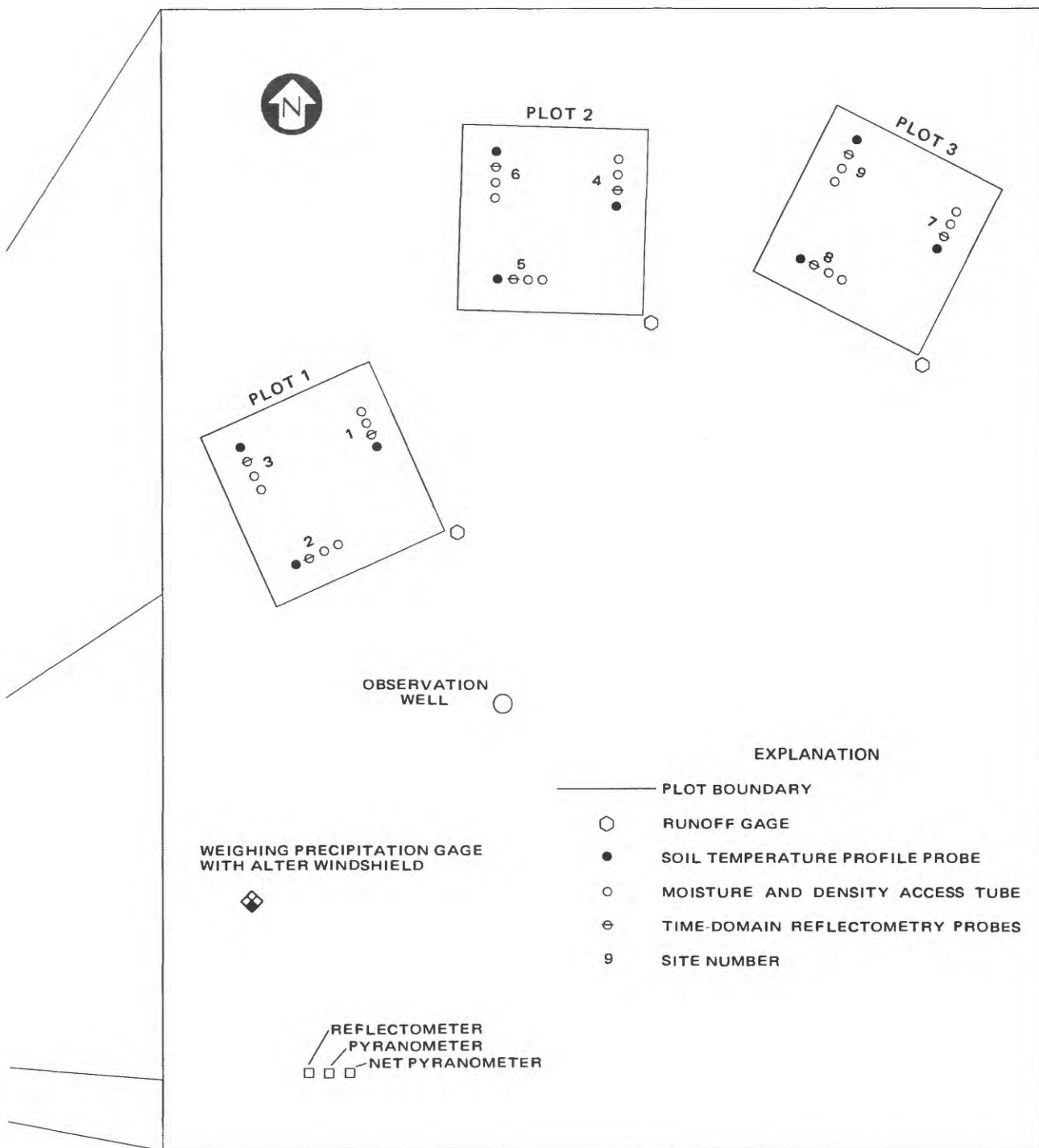


Figure 1.—Location of study area, plots,



and instrumentation sites.

The climate of the area is semiarid to subhumid and the mean annual precipitation is 501 mm. The mean temperature for November through March at Oakes is -8.3 °C (U.S. Department of Commerce, National Oceanic and Atmospheric Administration, Environmental Data and Information Service, 1982). January, the coldest month, has a mean temperature of -14.8 °C. The mean number of days that temperatures of 0 °C or lower are measured is 190 per year (Jensen, no date). The mean total precipitation for November through March is 87 mm. The mean seasonal maximum snow depth is 305 mm, and the mean seasonal number of days with snow depth of 152 mm or more is 40.

The local topography is nearly level; relief varies about 1 m. No drainage system exists in the vicinity of the study area. What little runoff there is in the area occurs as overland flow to local depressions. Most of these depressions provide only temporary storage and later are cultivated.

The Oakes aquifer, which is described by Armstrong (1980, p. 39-43), underlies the study area. The Oakes aquifer was deposited in two stages on an undulating surface. During the first stage, the aquifer material was deposited as valley fill. During the second stage, the valley was blocked and a glacial lake, Lake Dakota, was formed. Aquifer materials deposited during the second stage consist of deltaic and lake deposits, which now form most of the present land surface in the area. The valley-fill deposits consist of fine to coarse sand and gravel interbedded with silt and clay, the deltaic deposits generally consist of fine to medium sand and silt, and the lake deposits generally are composed of silt and silty clay.

The Oakes aquifer is as much as 13 km wide, 26 km long, and has an area of about 240 km² (Armstrong 1980, p. 39). Aquifer thickness averages 9 m, but varies considerably within short distances, as much as 21 m in a distance of 1 km.

INSTRUMENTATION AND DATA COLLECTION

Three runoff plots were established within the study area. Data collection for each plot consisted of snow depth, runoff, soil water content, and soil temperature. Precipitation, snow density, air temperature, radiation, and ground-water level data also were collected in the study area. Data were collected during October 1985-April 1986 and during October 1986-April 1987. The locations of the instrumentation sites are shown in figure 1. Land-surface elevations were not referenced to sea level, but relative land-surface elevations were determined from an arbitrary datum. The relative land-surface elevations at pertinent instrumentation sites are listed in table 1.

A Campbell Scientific data logger model CR-7 was housed in a heated shelter, which was located over the well. A telephone modem was connected to the data logger and provided access to the recorded data from the office. The retrieval of a month of data for the 91 parameters that are

recorded hourly requires several hours of transmitting time at a 300-baud rate. Because of the large amount of data that was being recorded, data retrieval over the telephone was not practical at a 300-baud rate. However, access to the data from the office was very useful in monitoring the situation at the study area.

Precipitation

Precipitation was measured by a precipitation gage and by snow surveys. A Belfort weighing precipitation gage with an Alter-type windshield was used to measure precipitation. An Omnidata Datapod model DP111 recorder was used to record the precipitation data. The gage was calibrated prior to field installation and was periodically checked for correct recording by adding a known volume of water to the bucket and verifying that the correct amount was recorded. The precipitation data recorded by the precipitation gage are listed in table 2.

Snow surveys were made on January 9, 1986, February 4, 1986, March 4, 1986, and November 18, 1986. Snow depth for each plot was determined by taking 60 systematic snow depth measurements in each plot. The measurements were taken about 0.5 m inside the plots along the border and 0.5 m apart. Snow density measurements were taken outside the plots so as not to disturb the snow cover inside the plots. The snow density measurements were made using a 102-mm inside diameter polyvinyl-chloride tube snow sampler. A polyvinyl-chloride tube snow sampler is a more accurate sampler than a standard Federal snow sampler (Farnes and others, 1983). The number of density measurements varied with each snow survey. Snow water equivalent for each plot was determined by using a mean snow depth for each plot and a mean snow density for the area. Snow survey data are listed in table 3.

Air Temperature

A copper-constantan thermocouple was connected to the data logger to record air temperatures. Air temperatures were measured periodically with a thermometer to verify the recorded air temperatures. Air temperature data are listed in table 4.

Radiation

Two Epply precision radiometers, model PSP, were used to measure global solar radiation and reflected solar radiation. A miniature net radiometer by Micromet Instruments was used to measure net radiation. All of the radiometers were calibrated by the manufacturer before they were installed in the field. The Epply radiometers were calibrated again by the manufacturer after field use; no significant change in the instrument response was detected. The three radiometers were connected to the data logger for recording the data. Global solar radiation, reflected solar radiation, and the net radiation data are listed in tables 5-7.

Ground-Water Level

An Omnidata Datapod model DP115 with a float attachment was first used to record ground-water levels in the well, but the float would stick or drag on the side walls of the 52-mm inside diameter steel well casing. Therefore, an Enviro-Labs, Inc., pressure transducer model PT-105V was connected to the data logger to record ground-water levels. The transducer was calibrated in the lab before field installation. Ground-water levels were measured periodically by tape to verify the recorded ground-water levels. Ground-water level data are listed in table 8.

Surface Runoff

The runoff plots were 7x7 m. Polyvinyl-chloride lawn edging was partly inserted into the ground to provide a boundary for the runoff plots. A tin funnel was placed in the lowest corner of each plot to direct the runoff out of the plot. A Belfort tipping bucket was placed below the throat of the funnel at each plot to measure the surface runoff. The number of tips from the tipping buckets was recorded by the data logger. The tipping buckets were housed in polystyrene foam boxes to protect them from the freezing temperatures. A hole was cut in the bottom of each box to drain the water. Heat tape was installed in the boxes to prevent water from freezing in the box and causing malfunction of the tipping buckets. Surface runoff data are listed in table 9.

Soil Water Content

Soil water content was measured at each site (fig. 1) using a Troxler model 1255 neutron moisture meter. The neutron scattering method measures the liquid plus ice content of the soil. The access tubes that were used in making the measurements were 48.2-mm inside diameter aluminum irrigation tubing. The access tubes were sealed at the bottom to prevent any water from entering the tubes. The tops of the access tubes were 0.5 m above ground to allow the neutron moisture meter to be above the snow cover when placed on the access tubes. A white polyvinyl-chloride tube, which was 0.20 m long and had an inside diameter of 50 mm, was placed over each access tube. A second white polyvinyl-chloride tube, which was 0.35 m long and capped on one end, was placed on top of the 0.20-m long polyvinyl-chloride tube. Together, the two polyvinyl-chloride tubes prevented water from entering the access tube and prevented warming of the aluminum access tube by the sun and melting of the snow around the access tube. Soil water measurements generally were taken at depths of 0.10, 0.20, 0.30, 0.40, 0.50, 0.60, 0.80, 1.00, 1.25, 1.50, 1.75, 2.00, and 2.25 m. Soil water measurements at 0.10-m depth were found to be in error because part of the spherically shaped volume that is measured by the neutron moisture meter at a depth of 0.10 m is above land surface. Therefore, measurements at 0.10-m depth were omitted.

The calibration curve supplied by Troxler was based on values outside the range most common to field measurements. Therefore, extra values were obtained by taking measurements of three Troxler calibration standards.

The standards represented volumetric water contents of 5.9, 10.2, and 19.1 percent. These values plus Troxler's values of 0 and 47.4 percent were used to develop a new polynomial calibration curve (fig. 2). The equation for the calibration curve is

$$y = 0.14 + 15.55x + 15.03x^2, \quad (1)$$

where y is volumetric soil water content, in percent and

x is the count ratio.

The developed calibration curve has a standard error of estimate of 0.25 in percent squared and a coefficient of determination greater than 0.99. Equation 1 was used to determine the volumetric soil water content. The data for soil water content that were measured by the neutron moisture meter are listed in tables 10-18.

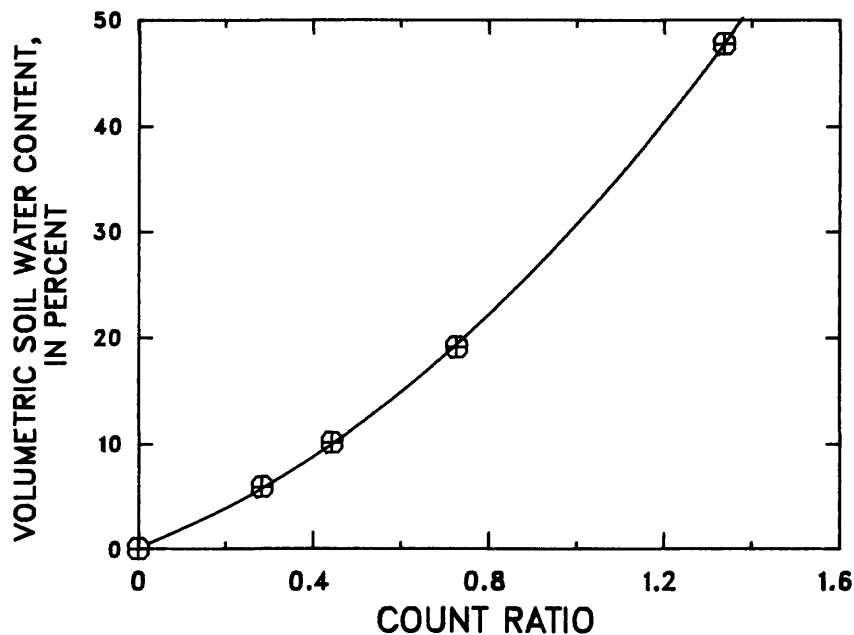


Figure 2.—Relation between volumetric soil water content and count ratio.

Soil water content was determined by using a Tektronix model 1502 time-domain reflectometry (TDR) cable tester. The TDR method only measures the liquid water content of the soil. The measurement of the propagation velocity of a voltage step by TDR provides a measure of the relative permittivity of soil. The relative permittivity, k' , is

$$k' = (ct/l)^2, \quad (2)$$

where c is the velocity of the electromagnetic signal in free space, in millimeters per nanosecond;

t is the travel time of the voltage step, in nanoseconds; and

l is the length of the probe, in millimeters.

Topp and others (1980) showed that liquid water is the main factor in determining the relative permittivity of soil material. They developed an empirical equation relating the volumetric soil water content, θ , to the relative permittivity, k' ,

$$\theta = -5.3 + 60.29k' - 0.55k'^2 + 0.00043k'^3. \quad (3)$$

The relation is independent of soil type, soil density, soil temperature, and soluble salt content. The TDR method is rapid and reliable for measuring soil water content. The TDR method has been used recently in other studies for field determination of water content in frozen soils (Stein and Kane, 1983; Hayhoe and Bailey, 1985).

A diagrammatic representation of the installation of the TDR probes is shown in figure 3. Pairs of 6.4-mm diameter stainless-steel rods, 300 mm long, separated by 25 mm, were placed horizontally in the soil at depths of 0.05, 0.10, 0.15, 0.20, 0.30, 0.40, 0.50, and 0.60 m. The rods were installed in the face of a pit by using a guide for positioning. The ends of the rods were threaded and connected to shielded 185-ohm television cable (Belden no. 9090) by a pair of nuts. The cables were extended to a weather-tight enclosure where they were connected to banana plugs that were mounted on a board for easy connection and reading. Then the pits were backfilled. A balun consisting of a radiofrequency impedance matching transformer (Adams Russell model TP-103) was connected to the end of the 50-ohm coaxial cable (Belden no. 8240) from the cable tester. Connection to each television cable was made by plugging the balun into an appropriate pair of banana plugs.

One procedure to determine the soil water content uses the distance control on the cable tester. When the signal from the voltage step reaches the probe, part of the signal is reflected back to the cable tester because of the impedance mismatch between the television cable and the probe. Part of the signal reaches the end of the probe and another reflection is sent back to the cable tester. The reflected signal causes a change in the input voltage (fig. 4). Therefore, the time that the signal travels the

length of the probe can be determined by noting the changes in voltage at the beginning and at the end of the probe on the cable tester's oscilloscope. The cable tester's distance control is used to move the end of the voltage drop to the position originally occupied by the beginning of the voltage drop. The distance control is read to determine the distance between the voltage drops. The time that an electromagnetic wave of a voltage step travels a 1-m cable is 10 nanoseconds when the cable tester's cable dielectric pushbuttons are set on "solid poly." The cable dielectric pushbuttons allow for various relative propagation velocity constants. The "solid poly" button is calibrated to check solid polyethylene dielectrics. The time (t) between the voltage drop is calculated and is applied to equation 2 to determine the relative permittivity. The relative permittivity is converted to volumetric soil water content using equation 3. This procedure is very easy and fast. The time that the voltage step travels the length of the probe can be determined in a few seconds.

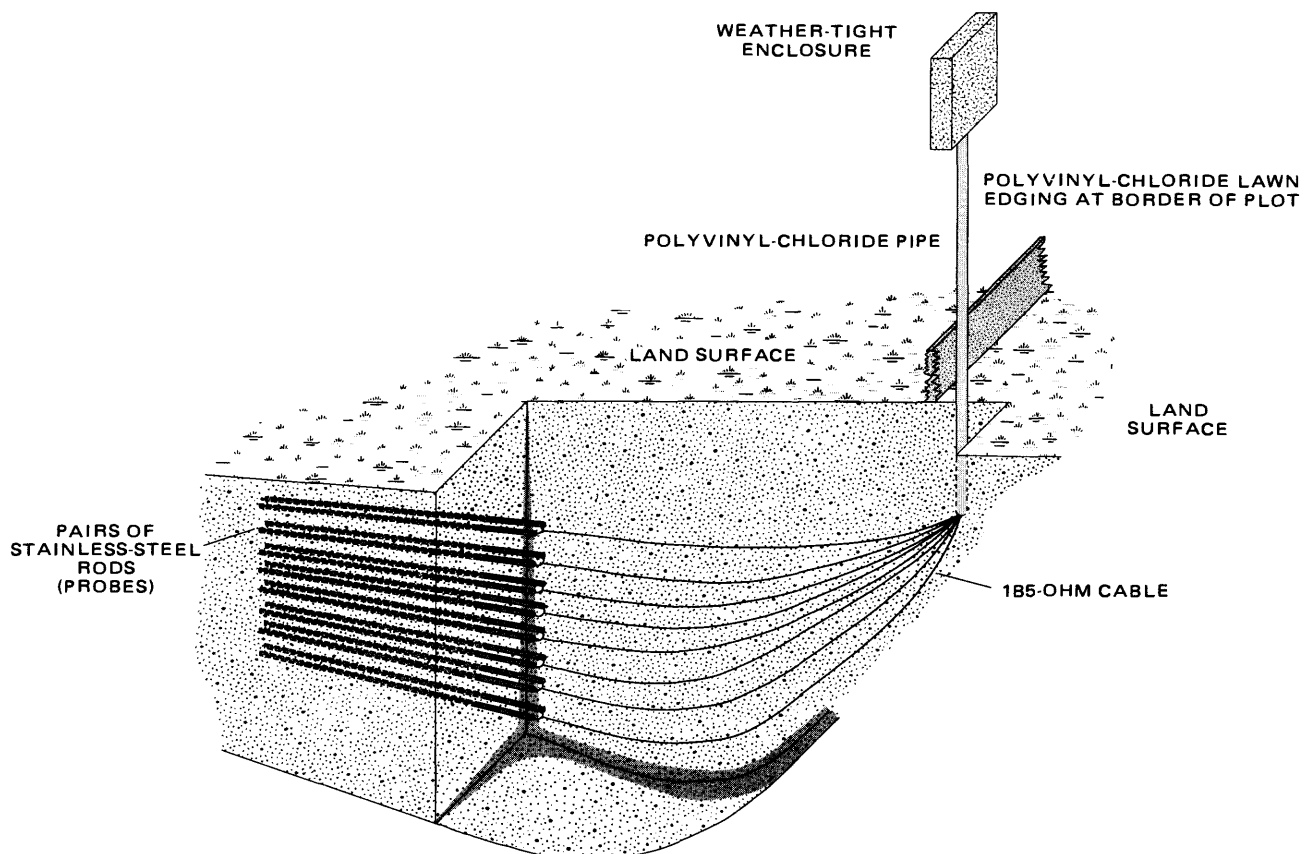


Figure 3.—Diagrammatic representation of the installation of time-domain reflectometry probes.

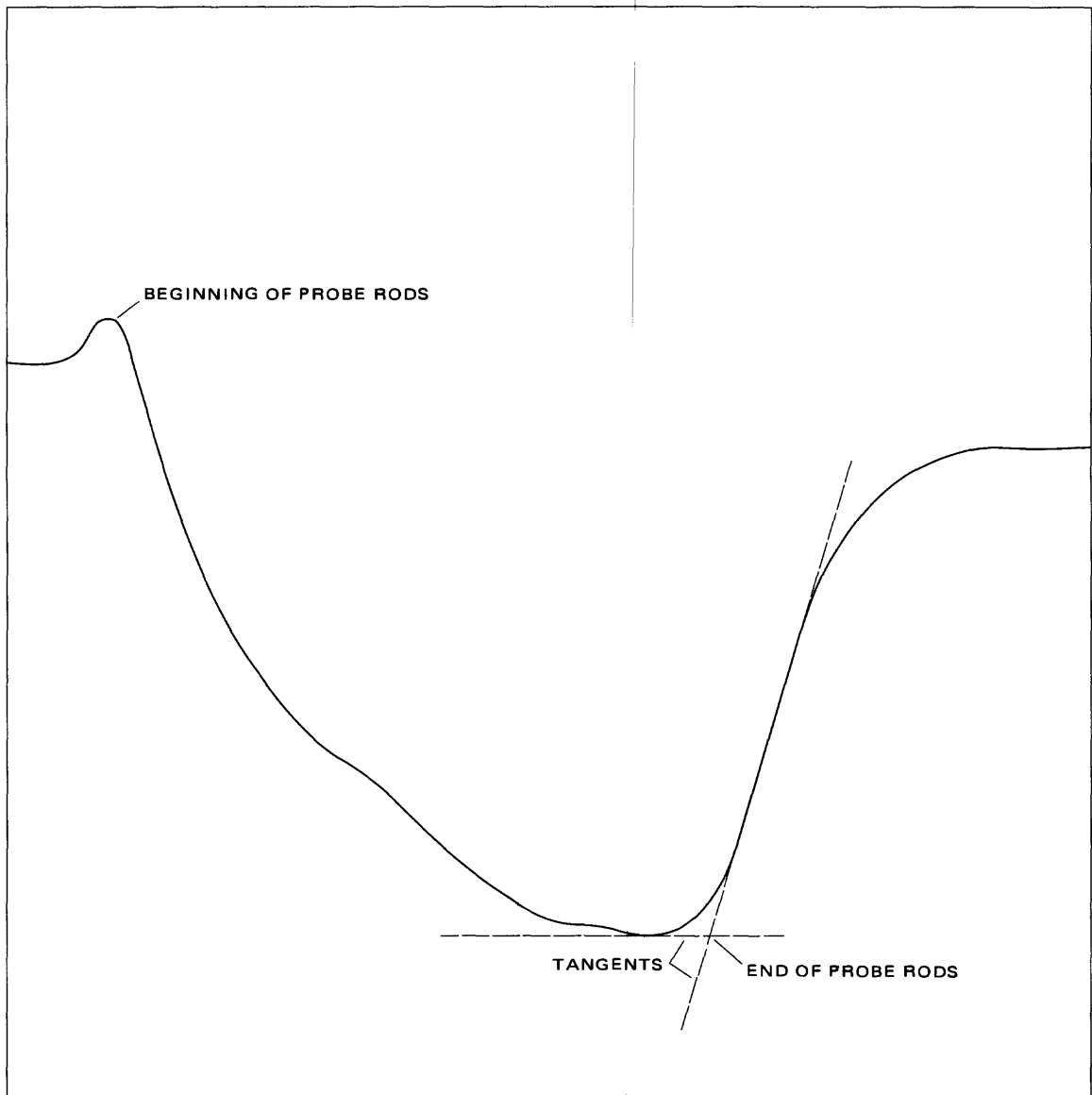


Figure 4.—Diagrammatic representation of a time-domain reflectometry trace.

Another procedure to determine the time that the voltage step travels the length of the probe consists of using the cable tester's chart recorder to produce a paper copy of the signal. The time is determined from the chart with a ruler. This procedure takes more time and the chart recorder runs the cable tester's battery down quite fast.

The distance-control procedure was used initially to make the soil water content measurements. Occasionally, both the distance-control and chart-recorder procedures were used. The two procedures sometimes produced different results. An investigation of the discrepancy resulted in finding that the distance-control procedure was in error because of the distortion caused by the cathode-ray tube screen of the cable tester. The distortion was near zero in the center of the screen and increased on the edges of the screen. The traveltimes determined by the distance-control procedure averaged 7 percent lower than those determined from the chart-recorder procedure. All measurements of traveltimes that were determined by the distance-control procedure were adjusted by 7 percent and the soil water content was recomputed.

Because of the error produced when using the distance-control procedure, a new procedure was immediately invoked. A Campbell Scientific data logger model 21X was used to digitize the signal. A computer algorithm (William Herkelrath, U.S. Geological Survey, written commun., 1987) was used to determine the soil water content from the digitized signal. The computer algorithm determines the X-Y coordinates corresponding to the beginning and end of the probe (fig. 4). The beginning of the probe corresponds to the initial peak of the trace and is determined by locating the maximum Y near the beginning of the trace. The end of the probe corresponds to a rise near the end of the trace and is determined by locating the interception of the tangents to the trace. The traveltime is determined by the difference between the points at the beginning and end of the probe. This procedure was faster than the chart procedure and did not run down the cable tester's battery. The data for soil water content that were measured by the TDR method are listed in tables 10-18. The data were determined either by the distance-control procedure and adjusted as previously discussed, or by the data-logger procedure.

An attempt was made to compute soil water content using the total bulk densities of the soil that were determined by using a Troxler model 2376 double-probe gamma-ray meter. Liquid plus ice content of the soil can be determined with the gamma-ray absorption method. However, after a long investigation, the scaler and detector of the double-probe gamma-ray meter were found to be sensitive to the changes in temperature that occur from October to April in North Dakota. The standard counts for the meter varied from 13,823 to 14,565, which is outside the acceptable range. The temperature extremes for which the double-probe gamma-ray meter was used were below the specifications of the meter (Brian Potter, Troxler Laboratories, oral comm. 1988). Therefore, soil water content was not determined using bulk-density measurements.

Soil Temperature

Soil temperature profile probes consisted of thermocouple wires mounted in polyvinyl-chloride pipe. The tips of the thermocouple wires protruded slightly out of the probe for good contact with the soil and were bonded on the surface of the pipe by a thin layer of epoxy. Profile probes were installed permanently in the ground. The thermocouple wires from a probe were strung through a pipe above ground to a weather-tight enclosure at the edge of the runoff plot (fig. 5). At the weather-tight enclosure, the thermocouple wires were attached to panel jacks for manual measurements or connected to thermocouple wires that were strung through a pipe and connected to the data logger. Soil temperature measurements were made at depths of 0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.60, 0.80, 1.00, 1.25, 1.50, 1.75, 2.00, and 2.50 m. Soil temperatures for the profile probes at sites 2, 4, 5, 6, and 8 were recorded by the data logger.

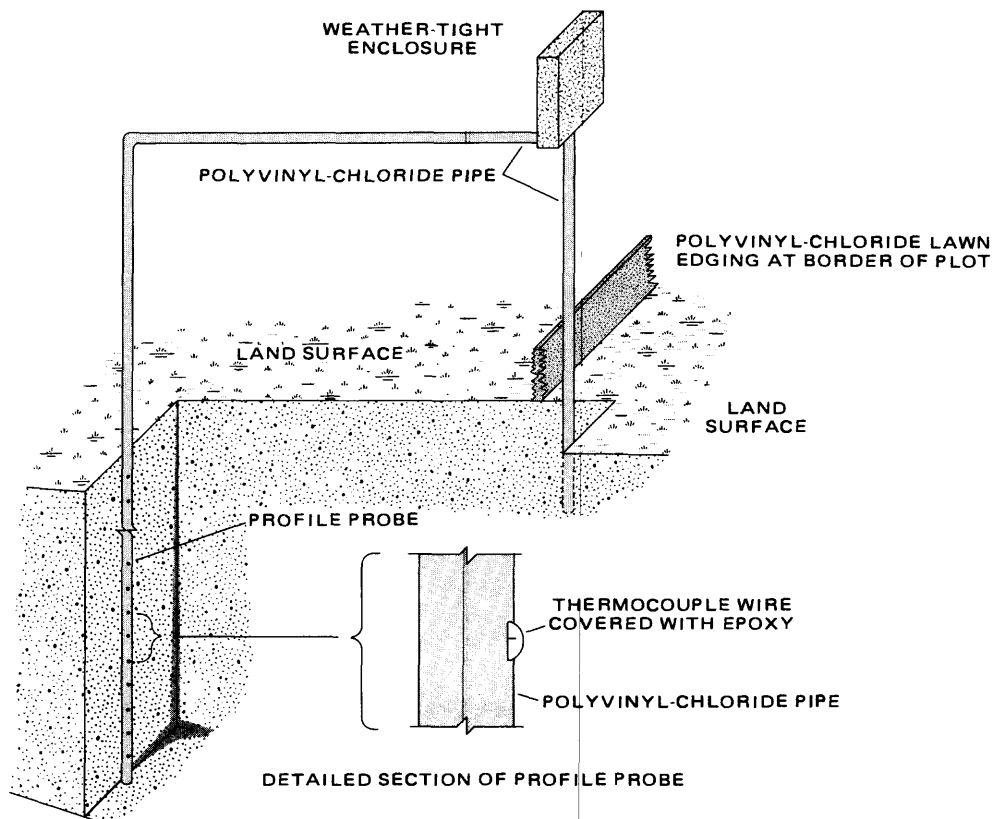


Figure 5.—Diagrammatic representation of the installation of a soil temperature profile probe.

However, soil temperatures were not recorded at the 2.50 m depth for site 5 during October 1985 through April 1986 and for sites 2, 4, 5, 6, and 8 during October 1986 through April 1987 because all the terminals on the data logger were in use. Soil temperature measurements for the profile probes at sites 1, 3, 7, and 9 were made manually during each visit. Soil temperature measurements at site 5 were made manually up to January 9, 1986, when the temperature probe was connected to the data logger. Periodically measured soil temperature data are listed in tables 10, 12, 14, 16, and 18 and recorded soil temperature data are listed in tables 19-23.

PHYSICAL AND CHEMICAL DESCRIPTION OF SOILS

Soil descriptions were made from samples that were obtained from a 50-mm-diameter soil core taken approximately 0.45 m north of the plots, about midway between the east-west boundary of each plot. The soils were described by horizon, but were sampled by 0.15-m depth increments from 0 to 0.90 m and by 0.30-m increments from 0.90 to 2.40 m to correspond with other physical measurements. The soil descriptions are listed in table 24. Similar soil samples were obtained from soil cores taken when the aluminum access tubes were installed. Physical and chemical soil analyses were determined for the soil samples taken from sites 3, 6, and 9 (fig. 1). Soil analyses consisted of the determination of particle size, inorganic carbon, organic carbon, pH, electrical conductivity, and soluble ions. Soluble ions that were analyzed are carbonate, bicarbonate, chloride, sulfate, calcium, magnesium, sodium, and potassium. Sodium-adsorption ratio and residual sodium carbonate also were determined. The analyses were conducted by the Soil Science Department at the North Dakota State University at Fargo, N.Dak. Methods of soil analyses are described by the U.S. Department of Agriculture (1984). Soil analyses are listed in tables 25-27.

The soils in the three plots are within the range in characteristics of the Hecla soil series, which is classified as sandy, mixed Aquic Haploborolls in Soil Taxonomy (U.S. Department of Agriculture, Soil Conservation Service, 1975). These soils were formed in sandy sediments in glacial Lake Dakota and have been reworked by wind.

REFERENCES

- Armstrong, C.A., 1980, Ground-water resources of Dickey and LaMoure Counties, North Dakota: North Dakota State Water Commission County Ground-Water Studies 28, part III, 61 p.
- Farnes, P.E., Goodison, B.E., Peterson, N.R., and Richards, R.P., 1983, Metrication of manual snow sampling equipment: Western Snow Conference Metrication Committee, 106 p.
- Hayhoe, H.N., and Bailey, W.G., 1985, Monitoring changes in total and unfrozen water content in seasonally frozen soil using time domain reflectometry and neutron moderation techniques: Water Resources Research, v. 21, no. 8, p. 1077-1084.
- Jensen, R.E., (no date), Climate of North Dakota: North Dakota State University, Fargo, N.Dak., 48 p.
- Stein, Jean, and Kane, D.L., 1983, Monitoring the unfrozen water content of soil and snow using time domain reflectometry: Water Resources Research, v. 19, p. 1573-1584.
- Topp, G.C., Davis, J.L., and Annan, A.P., 1980, Electromagnetic determination of soil water content: Measurements in coaxial transmission lines: Water Resources Research, v. 16, no. 3, p. 574-582.
- U.S. Department of Agriculture, Soil Conservation Service, 1975, Soil taxonomy: Agriculture Handbook No. 436, U.S. Government Printing Office, Washington D.C., 754 p.
- U.S. Department of Commerce, National Oceanic and Atmospheric Administration, Environmental Data and Information Service, 1982, Monthly normals of temperature, precipitation, and heating and cooling degree days, 1951-80, North Dakota: Asheville, N.C., Climatology of the United States, no. 81 (by state).
- U.S. Department of Agriculture, Soil Conservation Service, 1984, Procedures for collecting soil samples and methods of analyses for soil survey: Soil Survey Investigation Report No. 1, U.S. Government Printing Office, Washington, D.C., 68 p.

Table 1.--Relative land-surface elevations

Location	Relative elevation, in meters
Well	10.18
Radiometer	10.36
Precipitation gage	10.43
Site 1	10.45
Site 2	10.49
Site 3	10.55
Site 4	10.38
Site 5	10.34
Site 6	10.48
Site 7	10.13
Site 8	10.12
Site 9	10.17

Table 2.--Precipitation data

[--, indicates no data]

Daily total precipitation (millimeters)														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	0	0.5	3.3	0	1.8	0	0	2.0	0	0	0	0	0.2	0
2	0	0	0	3.3	.5	0	6.1	2.3	.2	0	0	0	0	0
3	4.1	0	2.3	1.3	.3	0	4.6	.5	0	0	0	0	0	0
4	2.5	0	.5	0	0	0	16.5	0	0	0	0	0	0	0
5	0	.3	0	0	0	0	8.9	.2	0	0	0	0	0	0
6	0	0	.3	0	0	.3	.8	.5	.8	0	0	0	0	0
7	3.0	0	0	0	.3	0	.3	0	17.0	0	0	0	0	0
8	1.5	0	0	0	.3	0	0	0	1.8	0	0	0	0	0
9	0	0	0	0	0	13.7	0	0	0	0	0	0	0	0
10	0	.3	0	0	0	0	0	1.5	.2	0	0	0	0	0
11	5.1	0	0	.3	0	1.0	0	0	.2	0	0	0	0	1.0
12	2.5	0	1.0	0	0	0	.3	0	0	0	0	0	0	0
13	.8	1.3	0	0	1.0	0	12.2	0	0	0	0	0	0	4.6
14	.8	.3	0	0	0	0	20.8	0	0	0	.8	0	0	0
15	3.0	0	0.3	0	1.8	0	1.0	0	0	0	0	5.3	1.3	0
16	1.5	1.3	0	0	.3	0	0	0	.2	0	0	.8	.8	0
17	.8	.5	0	0	.8	.5	1.8	0	3.3	0	0	0	29.2	0
18	0	2.0	0	0	.5	1.3	31.7	0	2.5	0	0	.2	16.0	0
19	0	.3	2.3	0	4.6	.3	2.0	0	.5	0	1.0	0	8.9	0
20	0	0	0	.5	.3	0	.5	0	0	0	.2	.2	.8	0
21	0	3.6	0	.3	0	0	0	0	0	0	.2	.2	.2	0
22	0	3.6	.5	2.5	0	0	0	0	0	0	.2	0	0	0
23	0	1.5	0	0	0	0	0	0	0	0	0	4.3	.2	0
24	0	0	0	0	0	0	0	0	0	0	.2	3.3	15.0	0
25	0	5.6	0	2.3	0	.3	30.0	0	0	0	0	2.8	0	0
26	0	2.5	1.8	.5	.3	0	10.2	0	0	0	0	11.4	0	0
27	0	0	0	.3	0	0	23.4	0	0	0	0	0	.5	0
28	0	0	0	0	0	0	0	1.0	0	0	0	5.3	0	0
29	0	.8	0	0	--	0	0	0	0	0	.5	--	0	0
30	0	2.8	.3	0	--	0	16.8	.2	0	0	0	--	0	0
31	0	--	0	0	--	2.3	--	.8	--	0	0	--	0	--

Table 3.--Snow survey data

[--, indicates no data]

Snow depth										Snow density		
Date	Plot 1			Plot 2			Plot 3			Mean density in grams per cubic centi-meter	Standard deviation, in grams per cubic centi-meter	Number of samples
	Number of samples	Mean depth, in centi-meters	Standard deviation, in centi-meters	Number of samples	Mean depth, in centi-meters	Standard deviation, in centi-meters	Number of samples	Mean depth, in centi-meters	Standard deviation, in centi-meters			
01/09/86	60	22	9	60	17	6	60	21	9	0.23	0.06	20
02/04/86	60	28	11	60	18	9	60	22	9	.24	.05	18
03/04/86	60	25	9	60	16	10	60	18	13	--	--	--
11/18/86	60	16	1	60	16	2	60	15	2	.05	.01	6

Table 4.--Air temperature data

[--, indicates no data]

Daily mean air temperature (degrees Celsius)														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	7.8	2.1	-20.0	-10.2	-5.7	-0.6	6.6	--	-4.7	-4.6	--	1.3	-5.3	-0.6
2	6.1	2.3	-23.4	-7.9	-1.9	2.4	8.0	--	.3	-1.1	--	.5	-7.7	-1.0
3	6.8	3.8	-9.5	-13.8	-3.5	1.8	4.2	--	.3	--	-3.6	-2.4	-2.2	4.0
4	8.3	3.5	-9.7	-12.5	-2.4	2.4	3.5	--	-.8	--	.4	-4.7	2.1	6.8
5	4.5	2.8	-12.0	-14.4	-7.2	.3	4.8	7.9	6.2	--	-.5	.3	5.0	7.7
6	7.3	4.4	-11.6	-27.9	-6.8	-8.4	10.5	10.0	3.5	--	-2.4	.2	8.4	9.4
7	4.7	-5.3	-10.8	-15.3	-10.8	-14.8	9.9	16.0	1.6	--	--	3.0	5.9	11.5
8	.9	-7.2	-8.7	-7.2	-20.5	-1.7	6.6	4.0	-5.3	--	-6.0	-4.7	-6.7	13.4
9	-1.1	-7.8	-6.7	.6	-23.5	-.5	7.0	4.0	-9.7	--	-7.2	--	-10.0	9.7
10	2.4	-6.4	-16.1	-5.2	-25.0	-2.4	10.1	8.5	--	--	-7.9	--	-5.0	3.9
11	6.5	-5.0	-21.2	1.0	-25.2	-2.0	10.2	2.1	-14.6	--	-.4	.6	-1.7	6.4
12	9.0	-6.7	-19.9	-3.4	-21.5	.4	-.9	-1.7	--	--	--	-.6	-5.9	6.8
13	7.8	-7.0	-24.5	-6.8	-16.2	.3	-2.0	-1.7	-13.7	--	1.9	-3.0	1.1	6.7
14	5.0	-7.9	-15.2	-7.9	-18.1	2.5	-1.5	3.0	-6.7	--	-2.8	-6.1	1.1	10.6
15	2.1	-8.4	-13.9	-7.0	-13.9	-.2	-1.3	7.4	-6.8	--	-16.8	-5.2	-.7	15.7
16	4.0	-1.9	-18.9	-2.7	-9.6	1.1	1.5	10.8	-1.1	--	-15.2	-4.4	.4	16.9
17	9.0	-5.2	-20.3	-1.7	-4.9	.3	7.6	9.9	-11.2	--	-11.5	-3.4	0	17.9
18	11.2	-10.4	-25.1	-2.8	-14.2	1.0	7.5	12.4	-14.3	--	-9.4	-6.1	.3	--
19	8.2	-12.1	-16.3	-2.7	-16.6	-7.2	7.1	13.1	--	--	-9.8	-1.4	2.6	--
20	9.2	-15.0	-23.3	-1.1	-20.4	-7.3	4.1	10.3	--	--	-7.8	-1.0	7.6	--
21	10.6	-16.2	-6.2	-7.6	-9.6	.8	2.8	11.3	-1.4	--	-5.0	-.8	4.9	--
22	15.1	-12.3	1.8	-14.8	-12.9	6.5	10.3	12.9	-1.4	--	-17.4	-2.8	3.2	--
23	10.9	-20.8	-7.3	-13.0	-13.1	1.4	17.2	4.5	-5.9	--	-19.8	-2.8	2.5	--
24	7.5	-23.7	-20.8	-4.6	-10.4	4.1	10.5	3.5	2.8	--	-16.3	-.1	.9	--
25	9.9	-12.1	-19.8	-5.9	.8	6.8	5.2	6.2	--	--	-13.3	2.1	1.1	--
26	6.7	-20.2	-2.5	-22.4	2.6	1.3	3.9	5.1	--	--	-5.2	-.1	1.4	--
27	3.9	-24.2	-15.2	-18.2	-4.2	7.3	3.2	9.1	2.1	-2.8	-3.9	-4.5	-2.8	--
28	12.4	-23.6	-11.9	-10.6	-2.6	13.8	8.2	8.9	2.4	-3.9	-1.3	-.3	-7.7	--
29	6.2	-21.1	-14.3	-13.5	--	14.7	12.1	2.3	-2.0	-3.8	.2	--	-6.4	--
30	-.8	-21.1	-6.3	-9.8	--	9.1	10.9	8.2	-3.7	-5.7	-1.3	--	-2.6	--
31	3.7	--	-12.4	-8.4	--	10.2	--	2.6	--	--	.2	--	5.7	--

Table 5.--Global solar radiation data

[--, indicates no data]

Daily total global solar radiation (langleys)														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	278	--	105	93	153	365	523	--	253	59	--	238	397	242
2	234	--	193	76	128	372	114	--	130	46	--	154	313	450
3	108	--	71	143	146	267	66	--	74	--	162	220	383	513
4	280	--	133	129	155	144	50	--	183	--	80	178	330	519
5	130	--	174	201	150	217	64	362	221	--	72	168	321	527
6	334	--	141	218	125	322	516	293	48	--	28	241	357	522
7	85	--	116	96	215	361	548	223	14	--	--	190	370	520
8	129	--	102	159	339	312	565	136	80	--	192	270	377	540
9	239	--	64	131	316	69	570	347	203	--	37	--	403	347
10	362	--	127	182	294	403	556	98	236	--	79	--	237	314
11	227	--	193	175	309	244	413	119	217	--	155	269	178	476
12	212	--	209	162	319	246	497	187	214	--	--	192	153	370
13	293	--	191	196	251	162	101	291	189	--	164	172	252	151
14	302	--	107	230	394	405	212	334	119	--	52	75	85	272
15	163	--	104	199	147	419	459	265	200	--	173	85	81	222
16	271	--	124	213	184	248	439	297	188	--	200	130	82	270
17	314	--	161	125	238	222	121	302	103	--	184	222	34	507
18	--	--	195	69	185	309	45	292	216	--	134	253	48	--
19	--	--	93	145	164	482	414	280	--	--	59	114	135	--
20	--	189	185	124	299	379	333	270	--	--	151	264	161	--
21	--	100	109	118	333	470	637	268	124	--	100	156	66	--
22	--	152	85	195	299	417	611	141	48	--	168	110	262	--
23	--	196	82	214	323	482	585	47	93	--	167	134	149	--
24	--	183	162	125	233	334	502	69	169	--	130	128	155	--
25	--	83	138	118	311	429	50	241	--	--	134	96	174	--
26	--	132	89	221	241	467	154	196	--	--	149	52	324	--
27	--	157	163	146	201	361	67	248	100	126	68	160	142	--
28	--	165	147	147	218	444	556	172	126	113	149	142	431	--
29	--	114	167	230	--	437	375	163	108	57	95	--	422	--
30	--	108	70	149	--	376	542	149	49	86	166	--	492	--
31	--	--	101	90	--	248	--	65	--	--	116	--	453	--

Table 6.--Reflected solar radiation data

[--, indicates no data]

Daily total reflected solar radiation (langleys)														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	66	--	--	77	130	264	90	--	52	13	--	48	305	41
2	53	--	--	65	110	275	16	--	24	7	--	29	253	81
3	22	--	--	125	126	196	7	--	13	--	37	45	274	92
4	62	--	--	120	132	104	5	--	38	--	14	40	135	92
5	28	--	170	152	128	150	7	69	48	--	12	35	53	95
6	78	--	--	166	116	247	84	54	6	--	3	47	63	93
7	16	--	100	86	180	252	93	42	1	--	--	38	64	95
8	25	--	94	133	242	215	98	24	37	--	38	57	67	97
9	52	--	63	106	246	51	98	69	114	--	7	--	74	60
10	84	--	123	133	241	328	97	18	160	--	16	--	40	54
11	51	--	165	146	239	191	69	20	128	--	33	52	28	82
12	47	--	156	121	255	179	86	33	120	--	--	36	24	64
13	68	--	157	140	237	123	16	64	104	--	34	31	42	24
14	71	--	92	145	277	294	176	66	31	--	8	12	12	72
15	47	--	86	140	134	303	317	51	94	--	59	19	12	74
16	63	--	104	142	162	166	152	60	50	--	55	113	43	80
17	75	--	--	90	216	146	17	62	19	--	52	176	10	97
18	--	--	161	49	161	194	4	62	181	--	37	185	12	--
19	--	--	84	106	145	306	72	59	--	--	31	80	48	--
20	--	--	162	89	255	243	56	58	--	--	102	165	23	--
21	--	--	95	106	289	276	111	57	43	--	56	81	8	--
22	--	--	69	154	254	171	108	26	8	--	120	64	42	--
23	--	--	64	164	290	115	104	7	20	--	112	120	22	--
24	--	--	139	110	205	61	88	11	34	--	84	116	126	--
25	--	--	105	104	269	71	6	50	--	--	83	82	80	--
26	--	--	70	199	192	76	24	39	--	--	93	30	75	--
27	--	--	150	123	157	58	8	52	18	28	34	129	23	--
28	--	--	132	123	169	72	95	35	22	22	58	131	77	--
29	--	--	145	191	--	71	65	34	19	10	20	--	75	--
30	--	--	55	123	--	61	92	28	7	27	33	--	91	--
31	--	--	78	79	--	39	--	12	--	--	21	--	79	--

Table 7.--Net radiation data

[--, indicates no data]

Daily total net radiation (langleys)														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	127	99	-3	-2	8	8	251	--	75	24	--	96	-3	115
2	90	78	-61	4	7	24	54	--	53	-4	--	61	34	207
3	38	54	10	-20	8	15	39	--	7	--	47	77	40	262
4	149	82	-12	-29	10	7	27	--	78	--	9	59	124	263
5	34	--	-28	-27	3	38	40	177	104	--	27	66	178	272
6	159	--	--	-20	-6	-3	291	154	16	--	14	95	168	290
7	42	--	-6	4	-3	35	270	122	5	--	--	56	214	274
8	64	--	0	-16	-24	60	274	60	20	--	48	50	196	273
9	89	--	-4	-19	-19	8	281	161	26	--	3	--	174	164
10	155	--	-19	-21	-35	7	277	31	5	--	13	--	119	172
11	102	--	-33	-40	-32	32	226	34	2	--	30	125	96	274
12	107	--	-29	-35	-40	20	266	65	--	--	--	82	75	212
13	132	--	-53	-8	-30	11	53	135	-2	--	50	82	148	73
14	141	-2	-14	-28	-33	30	11	145	43	--	12	36	49	297
15	75	-8	-17	-21	0	39	80	130	49	--	1	37	46	302
16	130	7	-17	-20	6	48	201	137	32	--	26	10	32	268
17	136	4	--	-6	1	52	67	141	--	--	33	17	17	274
18	21	5	-40	5	16	53	26	133	-15	--	57	38	27	--
19	132	-23	-18	2	4	34	207	116	--	--	-3	25	74	--
20	119	-28	-24	4	-24	60	178	128	--	--	7	57	100	--
21	136	1	1	-14	6	95	315	129	10	--	2	43	30	--
22	18	-25	-13	-2	-7	119	328	69	19	--	-1	24	154	--
23	100	-18	-29	18	-17	146	313	17	17	--	13	12	91	--
24	93	-24	-63	-3	11	153	276	30	57	--	9	12	23	--
25	118	3	-22	-25	-6	231	22	107	--	--	14	18	49	--
26	114	-29	-7	-40	14	242	91	90	--	--	27	20	154	--
27	60	-8	-62	17	17	176	40	112	8	19	17	28	71	--
28	86	-12	-53	9	12	224	321	58	47	29	52	11	214	--
29	102	0	-44	-21	--	219	193	79	33	3	49	--	205	--
30	95	10	-40	14	--	186	306	58	16	6	53	--	264	--
31	38	--	-24	9	--	101	--	-8	--	--	30	--	250	--

Table 8.--Ground-water level data

[--, indicates no data]

Daily mean ground-water level (meters below land surface)														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	2.94	--	--	2.79	--	2.75	2.56	--	2.06	2.04	--	2.14	2.13	1.77
2	--	--	--	2.79	--	2.74	2.55	--	2.06	2.03	--	2.14	2.14	1.77
3	2.94	--	--	2.79	--	2.74	2.54	--	2.05	--	2.10	2.16	2.14	1.76
4	--	--	2.82	2.79	2.76	2.74	2.53	--	2.05	2.03	2.09	2.16	2.13	1.76
5	--	--	--	2.79	2.76	2.74	2.52	2.10	2.04	--	2.10	2.16	2.11	1.75
6	--	--	--	2.79	--	2.74	2.51	2.09	2.04	--	2.10	2.16	2.09	1.75
7	--	--	2.81	2.79	--	2.74	2.50	2.08	2.04	--	--	2.14	2.08	1.74
8	--	--	2.81	2.79	--	2.74	2.49	2.09	2.03	--	2.10	2.16	2.09	1.73
9	--	--	2.81	--	--	2.74	2.48	2.09	2.06	--	2.10	2.15	2.09	1.71
10	--	--	2.81	--	--	2.74	2.46	2.07	--	--	2.10	2.15	2.09	1.70
11	--	--	2.81	--	--	2.74	2.44	2.08	2.05	--	2.10	2.15	2.08	1.70
12	--	--	2.80	--	--	2.74	2.42	2.08	--	--	2.10	2.16	2.09	1.69
13	--	--	2.80	--	--	2.74	2.41	2.07	2.05	--	2.10	2.15	2.08	1.69
14	--	--	2.80	--	--	2.74	2.40	2.06	2.04	--	2.11	2.15	2.08	1.68
15	--	--	2.80	--	--	2.73	2.39	2.07	2.04	--	2.12	2.16	2.08	1.68
16	--	--	2.80	--	--	2.73	2.38	2.06	2.03	--	2.12	2.15	2.08	1.67
17	--	--	2.80	--	--	2.73	2.37	2.06	2.04	--	2.11	2.15	2.07	1.67
18	--	--	2.80	--	--	2.73	2.36	2.06	2.04	--	2.10	2.15	2.04	--
19	--	--	2.80	--	--	2.73	2.34	2.06	--	--	2.12	2.16	2.00	--
20	--	2.84	2.80	--	--	2.73	2.31	2.06	--	--	2.12	2.15	1.96	--
21	--	--	2.80	--	--	2.73	2.26	2.05	2.04	--	2.11	2.14	1.94	--
22	--	--	2.80	--	2.75	2.73	2.21	2.05	2.04	--	2.13	2.15	1.92	--
23	--	--	2.80	--	2.75	2.72	2.17	2.06	2.05	--	2.13	2.15	1.91	--
24	--	--	2.80	--	2.75	2.71	2.13	2.06	2.04	--	2.14	2.15	1.89	--
25	--	--	2.80	--	2.75	2.70	2.12	2.05	--	--	2.14	2.15	1.87	--
26	--	--	2.80	--	2.74	2.68	2.09	2.05	--	--	2.14	2.15	1.85	--
27	--	--	2.79	--	2.74	2.66	2.07	2.04	2.04	2.08	2.14	2.13	1.83	--
28	2.87	--	2.80	--	2.75	2.64	2.04	2.04	2.04	2.08	2.14	2.13	1.82	--
29	--	--	2.79	--	--	2.62	2.00	2.06	2.04	2.09	2.13	--	1.80	--
30	--	--	2.79	--	--	2.59	1.93	2.05	2.05	2.08	2.15	--	1.78	--
31	2.88	--	2.79	--	--	2.58	--	2.05	--	--	2.13	--	1.77	--

Table 9.--Surface Runoff data

Day	Daily total surface runoff (liters)		
	Plot 1	Plot 2	Plot 3
3/22/86	271.46	0	144.64
3/23/86	426.29	.89	298.09
2/26/87	0	59.07	35.95
3/04/87	284.62	89.99	268.69
3/05/87	0	0	13.76

Table 10.--Periodical soil water content and soil temperature data for site 1

[Neutron, neutron scattering method; TDR, time-domain reflectometry method;
--, indicates no data]

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>October 1, 1985</u>				<u>October 29, 1985</u>		
0.05	--	10.1	3	--	9.1	6
0.10	--	13.0	3	--	10.1	7
0.15	--	13.0	4	--	11.0	7
0.20	6.5	15.0	5	5.7	8.3	8
0.25	--	--	6	--	--	8
0.30	7.0	13.0	6	--	10.3	8
0.40	6.5	10.5	7	6.5	8.6	8
0.50	6.0	6.6	8	--	6.3	8
0.60	5.5	5.3	9	5.5	5.1	8
0.80	5.0	--	10	4.7	--	8
1.00	5.0	--	11	4.6	--	9
1.25	6.0	--	11	5.9	--	9
1.50	7.5	--	12	7.3	--	9
1.75	9.5	--	12	8.8	--	9
2.00	18.0	--	12	17.0	--	10
2.25	24.5	--	--	22.4	--	--
2.50	--	--	11	--	--	10
<u>October 30, 1985</u>				<u>November 18, 1985</u>		
0.05	--	26.7	5	--	7.5	-3
0.10	--	33.2	5	--	8.2	-3
0.15	--	31.9	5	--	12.0	-2
0.20	14.4	33.2	5	12.4	17.0	-2
0.25	--	--	5	--	--	-1
0.30	--	28.3	5	--	15.8	-1
0.40	8.6	27.3	5	13.8	14.8	0
0.50	--	22.8	6	--	15.2	0
0.60	6.6	19.3	6	10.2	12.6	1
0.80	4.9	--	7	5.6	--	2
1.00	4.6	--	8	4.9	--	3
1.25	6.0	--	8	5.9	--	4
1.50	7.4	--	9	7.4	--	5
1.75	9.2	--	9	8.8	--	6
2.00	17.1	--	10	17.4	--	7
2.25	23.9	--	--	14.7	--	--
2.50	--	--	10	--	--	8

Table 10.--Periodical soil water content and soil temperature data for site 1--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>December 3, 1985</u>				<u>December 16, 1985</u>		
0.05	--	6.1	-3	--	7.3	-5
0.10	--	7.5	-3	--	8.0	-5
0.15	--	8.0	-2	--	8.2	-4
0.20	14.0	8.8	-2	13.9	9.1	-4
0.25	--	--	-1	--	--	-3
0.30	--	10.1	-1	--	7.9	-3
0.40	15.5	13.0	-1	15.5	7.9	-2
0.50	--	12.2	0	--	12.7	-1
0.60	9.3	11.6	1	8.9	12.0	-1
0.80	5.7	--	2	5.4	--	1
1.00	4.7	--	3	4.6	--	2
1.25	5.8	--	4	5.7	--	3
1.50	7.1	--	5	7.2	--	4
1.75	8.9	--	6	8.6	--	5
2.00	17.4	--	6	17.1	--	6
2.25	14.6	--	--	19.8	--	--
2.50	--	--	7	--	--	7
<u>January 7, 1986</u>				<u>February 5, 1986</u>		
0.05	--	--	-11	--	--	-3
0.10	--	--	-11	--	--	-3
0.15	--	--	-10	--	--	-3
0.20	15.1	--	-9	15.9	--	-3
0.25	--	--	-9	--	--	-3
0.30	--	--	-8	--	--	-3
0.40	15.2	--	-7	15.3	--	-3
0.50	--	--	-6	--	--	-3
0.60	9.4	--	-5	9.4	--	-3
0.80	5.4	--	-4	5.6	--	-2
1.00	4.9	--	-2	4.9	--	-1
1.25	5.7	--	-1	5.9	--	0
1.50	7.2	--	1	7.3	--	1
1.75	8.8	--	3	9.0	--	1
2.00	16.8	--	4	17.4	--	2
2.25	13.7	--	--	20.6	--	--
2.50	--	--	5	--	--	4

Table 10.--Periodical soil water content and soil temperature data for site 1--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>February 24, 1986</u>				<u>March 3, 1986</u>		
0.05	--	7.3	--	--	8.8	0
0.10	--	7.9	--	--	8.8	0
0.15	--	8.8	--	--	8.8	0
0.20	--	9.1	--	16.1	8.8	0
0.25	--	--	--	--	--	0
0.30	--	8.2	--	--	7.7	-1
0.40	--	7.7	--	15.1	7.9	-1
0.50	--	7.3	--	--	6.5	-1
0.60	--	7.0	--	9.3	6.3	-1
0.80	--	--	--	5.7	--	-1
1.00	--	--	--	5.0	--	0
1.25	--	--	--	6.1	--	1
1.50	--	--	--	7.4	--	1
1.75	--	--	--	9.2	--	2
2.00	--	--	--	17.3	--	3
2.25	--	--	--	14.2	--	--
2.50	--	--	--	--	--	4
<u>March 13, 1986</u>				<u>March 15, 1986</u>		
0.05	--	9.1	0	--	9.1	-2
0.10	--	7.7	0	--	8.6	-2
0.15	--	9.7	0	--	9.7	-2
0.20	16.5	9.7	0	16.5	9.7	-2
0.25	--	--	0	--	--	-2
0.30	17.5	7.3	0	17.6	7.5	-2
0.40	15.7	7.3	0	15.6	7.3	-2
0.50	--	5.8	0	12.3	6.5	-2
0.60	9.4	4.4	0	9.2	6.5	-1
0.80	5.7	--	0	5.6	--	-1
1.00	4.9	--	0	5.0	--	0
1.25	6.2	--	1	6.2	--	0
1.50	7.4	--	2	7.5	--	0
1.75	9.6	--	2	9.2	--	0
2.00	17.7	--	3	17.9	--	1
2.25	14.5	--	--	14.3	--	--
2.50	--	--	4	--	--	2

Table 10.--Periodical soil water content and soil temperature data for site 1--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
	<u>March 21, 1986, at 1345 hours</u>			<u>March 22, 1986, at 0910 hours</u>		
0.05	--	11.0	--	--	11.0	--
0.10	--	10.3	--	--	11.0	--
0.15	--	12.0	--	--	12.0	--
0.20	18.8	10.6	--	18.5	12.6	--
0.25	--	--	--	--	--	--
0.30	17.9	9.5	--	17.7	9.7	--
0.40	15.7	8.8	--	15.8	9.1	--
0.50	12.4	10.1	--	12.4	11.0	--
0.60	9.5	9.7	--	9.5	10.3	--
0.80	5.6	--	--	--	--	--
1.00	4.8	--	--	--	--	--
1.25	6.2	--	--	--	--	--
1.50	7.3	--	--	--	--	--
1.75	9.4	--	--	--	--	--
2.00	17.7	--	--	--	--	--
2.25	22.6	--	--	--	--	--
2.50	--	--	--	--	--	--
	<u>March 22, 1986, at 1133 hours</u>			<u>March 22, 1986, at 1400 hours</u>		
0.05	--	11.0	--	--	11.0	--
0.10	--	11.0	--	--	10.1	--
0.15	--	10.6	--	--	12.0	--
0.20	20.0	12.0	--	21.9	12.0	--
0.25	--	--	--	--	--	--
0.30	23.2	9.5	--	26.8	10.1	--
0.40	22.8	9.1	--	29.3	9.1	--
0.50	15.5	9.9	--	22.0	9.1	--
0.60	10.2	10.1	--	12.7	9.7	--
0.80	--	--	--	7.6	--	--
1.00	--	--	--	5.8	--	--
1.25	--	--	--	--	--	--
1.50	--	--	--	--	--	--
1.75	--	--	--	--	--	--
2.00	--	--	--	--	--	--
2.25	--	--	--	--	--	--
2.50	--	--	--	--	--	--

Table 10.--Periodical soil water content and soil temperature data for site 1--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>March 23, 1986, at 0905 hours</u>				<u>March 24, 1986</u>		
0.05	--	12.0	--	--	10.3	-1
0.10	--	12.0	--	--	10.3	-1
0.15	--	12.0	--	--	10.8	-2
0.20	25.8	12.0	--	31.6	11.0	-2
0.25	--	--	--	--	--	-2
0.30	28.5	9.5	--	32.4	9.3	-2
0.40	28.0	10.1	--	29.4	8.6	-2
0.50	22.4	10.6	--	23.9	8.4	-2
0.60	16.5	11.0	--	17.9	11.0	-2
0.80	--	--	--	8.2	--	-1
1.00	--	--	--	5.2	--	-1
1.25	--	--	--	6.2	--	0
1.50	--	--	--	7.5	--	0
1.75	--	--	--	9.6	--	1
2.00	--	--	--	18.3	--	1
2.25	--	--	--	14.6	--	--
2.50	--	--	--	--	--	2
<u>March 27, 1986</u>				<u>April 7, 1986</u>		
0.05	--	23.8	4	--	14.6	10
0.10	--	22.8	-1	--	18.2	8
0.15	--	21.0	-2	--	17.8	7
0.20	23.4	13.0	-2	15.6	20.7	6
0.25	--	--	-2	--	--	5
0.30	29.1	9.5	-2	19.6	17.2	4
0.40	28.6	9.9	-2	19.2	18.2	3
0.50	24.0	11.0	-2	17.9	18.0	3
0.60	19.1	13.0	-2	16.3	16.0	3
0.80	12.8	--	-1	14.4	--	2
1.00	6.1	--	-1	13.9	--	2
1.25	6.1	--	0	14.1	--	1
1.50	7.4	--	0	9.2	--	1
1.75	9.6	--	1	10.4	--	2
2.00	18.0	--	1	19.3	--	2
2.25	14.6	--	--	16.5	--	--
2.50	--	--	2	--	--	2

Table 10.--Periodical soil water content and soil temperature data for site 1--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>April 16, 1986</u>				<u>October 7, 1986</u>		
0.05	--	20.1	1	--	13.4	12
0.10	--	21.1	1	--	15.2	11
0.15	--	22.2	1	--	16.2	10
0.20	18.9	24.2	1	12.6	17.6	10
0.25	--	--	1	--	--	10
0.30	19.8	20.3	1	16.1	15.8	10
0.40	19.2	20.1	2	15.8	15.2	10
0.50	17.4	17.8	2	14.5	14.0	11
0.60	15.5	17.0	2	12.9	13.2	10
0.80	12.6	--	3	10.9	--	11
1.00	11.9	--	3	10.4	--	11
1.25	12.4	--	3	11.1	--	12
1.50	12.1	--	3	10.9	--	12
1.75	13.5	--	3	13.5	--	12
2.00	20.4	--	3	30.3	--	12
2.25	19.9	--	--	39.5	--	--
2.50	--	--	3	--	--	12
<u>October 27, 1986</u>				<u>November 17, 1986</u>		
0.05	--	8.8	8	--	8.6	-3
0.10	--	11.6	7	--	8.6	-2
0.15	--	14.8	6	--	13.8	-1
0.20	9.5	17.0	6	15.3	17.8	-1
0.25	--	--	6	--	--	-1
0.30	14.1	15.0	7	16.3	16.0	-1
0.40	14.4	14.4	7	14.6	15.2	0
0.50	13.2	13.4	8	13.4	15.2	0
0.60	11.6	12.6	8	11.5	15.8	1
0.80	9.7	--	8	9.3	--	3
1.00	9.3	--	9	8.8	--	4
1.25	10.1	--	9	9.3	--	5
1.50	9.9	--	9	9.3	--	6
1.75	13.5	--	10	12.7	--	7
2.00	31.1	--	10	29.7	--	8
2.25	39.8	--	--	38.5	--	--
2.50	--	--	10	--	--	8

Table 10.--Periodical soil water content and soil temperature data for site 1--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>December 4, 1986</u>				<u>January 6, 1987</u>		
0.05	--	8.2	-3	--	9.1	-1
0.10	--	7.3	-3	--	8.2	-1
0.15	--	13.0	-2	--	8.2	-1
0.20	18.0	18.0	-1	16.6	9.1	-2
0.25	--	--	-1	--	--	-1
0.30	15.6	16.0	-1	18.0	8.2	-1
0.40	14.2	15.0	0	16.1	7.3	-1
0.50	12.8	13.0	1	13.3	8.2	-1
0.60	11.6	13.0	1	11.2	10.1	-1
0.80	9.5	--	2	8.8	--	0
1.00	8.7	--	3	8.4	--	1
1.25	9.1	--	4	9.0	--	2
1.50	9.1	--	5	8.9	--	3
1.75	13.2	--	6	11.8	--	4
2.00	28.6	--	7	29.1	--	5
2.25	37.2	--	--	37.0	--	--
2.50	--	--	8	--	--	6
<u>February 9, 1987</u>				<u>February 11, 1987</u>		
0.05	--	--	0	--	--	--
0.10	--	--	-1	--	8.2	--
0.15	--	--	-1	--	7.2	--
0.20	17.0	--	-1	--	7.9	--
0.25	--	--	-1	--	--	--
0.30	18.4	--	-1	--	8.0	--
0.40	16.5	--	-1	--	7.5	--
0.50	14.0	--	-1	--	7.1	--
0.60	11.7	--	0	--	7.1	--
0.80	8.7	--	0	--	--	--
1.00	8.3	--	1	--	--	--
1.25	9.1	--	2	--	--	--
1.50	8.9	--	2	--	--	--
1.75	12.2	--	3	--	--	--
2.00	29.7	--	4	--	--	--
2.25	39.4	--	--	--	--	--
2.50	--	--	5	--	--	--

Table 10.--Periodical soil water content and soil temperature data for site 1--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>March 4, 1987</u>				<u>March 5, 1987</u>		
0.05	--	--	0	--	14.7	2
0.10	--	--	0	--	15.4	2
0.15	--	--	0	--	15.1	2
0.20	30.8	--	0	32.3	14.6	2
0.25	--	--	0	--	--	2
0.30	29.3	--	0	31.5	1.1	2
0.40	23.5	--	0	26.2	9.7	2
0.50	16.5	--	0	20.1	13.1	2
0.60	11.8	--	0	15.6	11.0	2
0.80	8.6	--	1	10.0	--	2
1.00	8.4	--	1	7.9	--	3
1.25	8.9	--	2	8.8	--	3
1.50	8.9	--	2	8.8	--	4
1.75	12.2	--	3	12.3	--	5
2.00	29.8	--	4	29.6	--	5
2.25	39.8	--	--	39.5	--	--
2.50	--	--	4	--	--	6
<u>March 11, 1987</u>				<u>March 26, 1987</u>		
0.05	--	11.3	0	--	26.0	--
0.10	--	15.7	0	--	24.6	-1
0.15	--	16.1	0	--	23.6	-1
0.20	29.4	16.1	0	21.5	20.7	-1
0.25	--	--	0	--	--	-1
0.30	30.1	13.8	0	24.1	19.0	-1
0.40	24.7	15.0	0	22.3	19.2	0
0.50	19.0	14.3	0	19.7	18.1	0
0.60	16.0	12.4	1	17.5	16.4	0
0.80	13.6	--	1	15.5	--	1
1.00	11.6	--	2	14.4	--	1
1.25	9.1	--	2	14.1	--	1
1.50	8.9	--	3	13.4	--	2
1.75	12.8	--	3	17.9	--	2
2.00	31.5	--	4	36.2	--	3
2.25	40.3	--	--	40.0	--	--
2.50	--	--	5	--	--	4

Table 10.--Periodical soil water content and soil temperature data for site 1--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>April 1, 1987</u>				<u>April 16, 1987</u>		
0.05	--	17.9	--	--	13.2	--
0.10	--	17.1	1	--	15.4	10
0.15	--	18.2	1	--	16.2	8
0.20	19.0	20.2	1	12.7	18.6	8
0.25	--	--	1	--	--	7
0.30	19.3	17.4	1	15.8	16.1	7
0.40	18.1	17.1	1	15.5	15.4	7
0.50	16.0	16.1	1	14.1	14.9	7
0.60	14.2	14.6	2	12.2	13.3	6
0.80	12.4	--	2	10.6	--	5
1.00	12.1	--	2	10.1	--	5
1.25	12.9	--	3	11.1	--	5
1.50	12.8	--	3	12.6	--	4
1.75	23.2	--	4	31.6	--	4
2.00	38.0	--	4	37.9	--	4
2.25	40.4	--	--	37.9	--	--
2.50	--	--	5	--	--	4

Table 11.--Periodical soil water content data for site 2

[Neutron, neutron scattering method; TDR, time-domain reflectometry method;
--, indicates no data]

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)
	<u>October 1, 1985</u>		<u>October 29, 1985</u>		<u>October 30, 1985</u>	
0.05	--	10.1	--	7.7	--	26.5
0.10	--	7.1	--	8.2	--	35.3
0.15	--	10.6	--	9.1	--	29.3
0.20	6.5	9.1	5.8	7.2	18.8	30.5
0.25	--	--	--	--	--	--
0.30	6.5	6.5	--	6.3	--	24.0
0.40	6.5	6.5	6.5	5.4	11.8	20.1
0.50	6.0	6.5	--	5.6	--	8.6
0.60	5.5	6.1	5.5	4.8	6.4	5.8
0.80	5.0	--	5.0	--	5.0	--
1.00	5.0	--	4.9	--	4.8	--
1.25	5.5	--	5.5	--	5.5	--
1.50	6.5	--	6.5	--	6.6	--
1.75	9.0	--	9.0	--	8.9	--
2.00	15.5	--	14.7	--	15.0	--
2.25	19.5	--	19.0	--	16.7	--
2.50	--	--	--	--	--	--
	<u>November 18, 1985</u>		<u>December 3, 1985</u>		<u>December 16, 1985</u>	
0.05	--	6.8	--	6.5	--	6.8
0.10	--	8.0	--	7.9	--	8.2
0.15	--	9.0	--	8.4	--	8.2
0.20	13.8	12.4	15.9	8.4	15.4	8.2
0.25	--	--	--	--	--	--
0.30	--	18.6	--	16.2	--	9.1
0.40	14.3	17.0	14.8	15.6	15.3	13.0
0.50	--	14.8	--	14.0	--	13.0
0.60	12.9	13.0	11.5	13.6	10.5	12.2
0.80	9.1	--	8.9	--	8.3	--
1.00	5.6	--	5.8	--	5.6	--
1.25	5.6	--	5.6	--	5.4	--
1.50	6.6	--	6.6	--	6.3	--
1.75	8.7	--	8.8	--	8.7	--
2.00	15.5	--	15.7	--	14.3	--
2.25	15.3	--	14.8	--	18.6	--
2.50	--	--	--	--	--	--

Table 11.--Periodical soil water content data for site 2--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)
	<u>January 7, 1986</u>		<u>February 5, 1986</u>		<u>March 3, 1986</u>	
0.05	--	--	--	--	--	6.6
0.10	--	--	--	--	--	7.0
0.15	--	--	--	--	--	7.7
0.20	16.1	--	16.8	--	17.6	18.2
0.25	--	--	--	--	--	--
0.30	--	--	--	--	--	8.0
0.40	16.0	--	15.7	--	15.9	6.6
0.50	--	--	--	--	--	6.1
0.60	10.7	--	11.1	--	11.2	6.5
0.80	8.0	--	8.3	--	8.1	--
1.00	5.6	--	5.8	--	5.8	--
1.25	5.4	--	5.7	--	5.8	--
1.50	6.4	--	6.4	--	6.6	--
1.75	8.8	--	9.0	--	9.4	--
2.00	15.0	--	14.7	--	15.5	--
2.25	14.4	--	17.5	--	14.5	--
2.50	--	--	--	--	--	--
	<u>March 13, 1986</u>		<u>March 15, 1986</u>		<u>March 21, 1986, at 1407 hours</u>	
0.05	--	7.7	--	7.7	--	13.6
0.10	--	8.2	--	8.0	--	18.2
0.15	--	8.8	--	8.2	--	19.0
0.20	18.0	8.8	18.4	8.0	21.5	17.0
0.25	--	--	--	--	--	--
0.30	18.4	9.1	18.4	7.3	19.2	10.1
0.40	16.2	7.3	15.8	7.0	16.6	9.1
0.50	13.0	5.4	12.9	6.6	13.3	8.8
0.60	11.3	6.6	11.2	6.1	11.3	8.2
0.80	8.3	--	8.5	--	8.4	--
1.00	5.9	--	5.9	--	5.9	--
1.25	5.8	--	5.9	--	6.0	--
1.50	6.7	--	6.6	--	6.8	--
1.75	9.5	--	9.4	--	9.4	--
2.00	15.8	--	16.0	--	16.0	--
2.25	14.9	--	14.9	--	18.2	--
2.50	--	--	--	--	--	--

Table 11.--Periodical soil water content data for site 2--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)
	<u>March 21, 1986, at 1707 hours</u>		<u>March 22, 1986, at 0919 hours</u>		<u>March 22, 1986, at 1146 hours</u>	
0.05	--	12.0	--	15.8	--	14.0
0.10	--	17.6	--	20.1	--	20.1
0.15	--	17.0	--	18.6	--	19.0
0.20	21.1	16.0	22.2	17.2	22.5	6.5
0.25	--	--	--	--	--	--
0.30	18.8	10.3	19.1	11.0	19.2	10.1
0.40	16.1	8.4	16.5	9.9	16.5	8.8
0.50	13.1	7.5	13.3	8.6	13.2	8.8
0.60	11.0	7.3	11.3	8.8	--	7.3
0.80	--	--	--	--	--	--
1.00	--	--	--	--	--	--
1.25	--	--	--	--	--	--
1.50	--	--	--	--	--	--
1.75	--	--	--	--	--	--
2.00	--	--	--	--	--	--
2.25	--	--	--	--	--	--
2.50	--	--	--	--	--	--
	<u>March 22, 1986, at 1420 hours</u>		<u>March 22, 1986, at 1626 hours</u>		<u>March 22, 1986, at 1720 hours</u>	
0.05	--	15.2	--	16.0	--	16.0
0.10	--	19.0	--	20.1	--	20.1
0.15	--	18.0	--	17.6	--	19.0
0.20	27.5	15.8	29.7	15.0	30.3	17.0
0.25	--	--	--	--	--	--
0.30	25.1	10.1	27.2	11.0	27.8	10.0
0.40	25.5	8.8	27.7	9.1	28.7	9.1
0.50	24.9	8.2	27.1	8.8	28.3	8.2
0.60	19.4	7.3	22.2	8.8	24.0	8.2
0.80	8.9	--	--	--	--	--
1.00	--	--	--	--	--	--
1.25	--	--	--	--	--	--
1.50	--	--	--	--	--	--
1.75	--	--	--	--	--	--
2.00	--	--	--	--	--	--
2.25	--	--	--	--	--	--
2.50	--	--	--	--	--	--

Table 11.--Periodical soil water content data for site 2--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)
	<u>March 23, 1986, at 0918 hours</u>		<u>March 23, 1986, at 1220 hours</u>		<u>March 24, 1986</u>	
0.05	--	16.6	--	16.0	--	17.4
0.10	--	21.1	--	20.1	--	20.7
0.15	--	20.1	--	19.7	--	18.2
0.20	28.9	17.6	28.6	17.0	31.2	16.6
0.25	--	--	--	--	--	10.3
0.30	26.1	11.4	26.2	10.8	28.4	10.3
0.40	24.9	9.7	24.8	9.1	25.5	8.6
0.50	23.1	8.4	22.7	9.1	22.5	7.5
0.60	20.4	8.6	20.1	8.2	15.2	7.3
0.80	11.3	--	--	--	11.2	--
1.00	6.0	--	--	--	6.1	--
1.25	5.8	--	--	--	6.1	--
1.50	6.5	--	--	--	6.8	--
1.75	9.3	--	--	--	9.6	--
2.00	15.7	--	--	--	16.6	--
2.25	21.1	--	--	--	--	--
2.50	--	--	--	--	--	--
	<u>March 27, 1986</u>		<u>April 7, 1986</u>		<u>April 16, 1986</u>	
0.05	--	22.2	--	14.5	--	18.0
0.10	--	27.3	--	18.2	--	21.1
0.15	--	23.2	--	19.3	--	21.1
0.20	28.3	16.2	15.4	18.6	17.2	20.3
0.25	--	--	--	--	--	--
0.30	27.6	9.5	17.1	20.7	17.5	18.0
0.40	25.0	8.8	17.9	19.5	17.3	20.1
0.50	21.9	8.2	17.4	17.0	16.2	18.0
0.60	17.7	7.5	16.6	16.4	14.9	16.0
0.80	10.7	--	14.7	--	12.1	--
1.00	6.1	--	14.4	--	11.5	--
1.25	5.9	--	14.1	--	12.2	--
1.50	6.8	--	8.3	--	11.6	--
1.75	9.3	--	9.4	--	14.4	--
2.00	16.1	--	17.1	--	20.2	--
2.25	14.9	--	17.0	--	18.9	--
2.50	--	--	--	--	--	--

Table 11.--Periodical soil water content data for site 2--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)
	<u>October 7, 1986</u>		<u>October 27, 1986</u>		<u>November 17, 1986</u>	
0.05	--	13.0	--	8.0	--	6.5
0.10	--	16.2	--	10.6	--	8.6
0.15	--	16.4	--	12.2	--	10.5
0.20	12.9	15.8	10.0	13.0	14.0	15.0
0.25	--	--	--	--	--	--
0.30	14.9	18.2	13.0	16.4	14.2	18.2
0.40	15.1	15.8	13.7	14.8	14.0	16.4
0.50	14.0	15.2	12.7	13.4	12.5	13.6
0.60	13.1	12.4	11.7	12.0	11.4	12.6
0.80	11.0	--	10.0	--	9.2	--
1.00	10.7	--	9.8	--	8.9	--
1.25	11.3	--	10.2	--	9.5	--
1.50	10.7	--	9.7	--	9.2	--
1.75	14.2	--	13.8	--	13.2	--
2.00	28.0	--	29.1	--	28.2	--
2.25	39.9	--	40.9	--	40.0	--
2.50	--	--	--	--	--	--
	<u>December 4, 1986</u>		<u>January 6, 1987</u>		<u>February 9, 1987</u>	
0.05	--	6.5	--	6.5	--	--
0.10	--	7.3	--	8.2	--	--
0.15	--	8.2	--	8.2	--	--
0.20	15.6	14.0	15.6	8.2	16.2	--
0.25	--	--	--	--	--	--
0.30	14.3	16.0	15.0	8.2	15.4	--
0.40	14.1	15.0	14.2	7.3	14.7	--
0.50	13.0	14.0	12.8	8.2	13.2	--
0.60	11.6	8.6	11.3	8.2	11.8	--
0.80	9.4	--	8.7	--	8.8	--
1.00	9.0	--	8.6	--	8.7	--
1.25	9.4	--	9.1	--	9.3	--
1.50	8.9	--	8.5	--	8.7	--
1.75	13.5	--	12.5	--	12.7	--
2.00	28.8	--	27.0	--	28.4	--
2.25	38.4	--	37.9	--	39.4	--
2.50	--	--	--	--	--	--

Table 11.--Periodical soil water content data for site 2--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)
	<u>February 11, 1987</u>		<u>March 4, 1987</u>		<u>March 5, 1987</u>	
0.05	--	6.7	--	--	--	17.3
0.10	--	6.2	--	--	--	20.6
0.15	--	7.4	--	--	--	18.0
0.20	--	7.2	32.0	--	33.8	14.6
0.25	--	--	--	--	--	--
0.30	--	7.3	26.9	--	29.6	10.0
0.40	--	7.7	22.7	--	25.6	9.1
0.50	--	7.7	18.1	--	20.6	9.2
0.60	--	7.2	13.0	--	15.8	11.7
0.80	--	--	8.9	--	9.8	--
1.00	--	--	8.5	--	8.4	--
1.25	--	--	9.1	--	8.9	--
1.50	--	--	8.6	--	8.4	--
1.75	--	--	12.8	--	12.5	--
2.00	--	--	28.1	--	27.9	--
2.25	--	--	40.1	--	39.9	--
2.50	--	--	--	--	--	--
	<u>March 11, 1987</u>		<u>March 26, 1987</u>		<u>April 1, 1987</u>	
0.05	--	7.9	--	21.8	--	13.0
0.10	--	11.2	--	27.0	--	11.4
0.15	--	15.2	--	18.3	--	14.2
0.20	31.9	14.8	28.8	16.8	25.6	16.4
0.25	--	--	--	--	--	--
0.30	27.9	11.6	26.3	21.1	22.1	20.1
0.40	25.1	11.6	21.6	19.4	19.0	18.4
0.50	17.9	13.2	19.4	18.1	16.4	16.5
0.60	14.9	12.0	18.0	16.8	15.2	15.8
0.80	12.1	--	15.7	--	13.2	--
1.00	9.6	--	14.4	--	12.9	--
1.25	9.4	--	14.3	--	13.6	--
1.50	8.6	--	12.9	--	13.0	--
1.75	12.9	--	17.3	--	21.9	--
2.00	29.1	--	35.2	--	38.0	--
2.25	40.7	--	39.7	--	40.8	--
2.50	--	--	--	--	--	--

Table 11.--Periodical soil water content data for site 2--Continued

Depth (meters)	Soil water content neutron	Soil water content TDR
	(percent volume)	(percent volume)
<u>April 16, 1987</u>		
0.05	--	13.4
0.10	--	16.0
0.15	--	16.9
0.20	13.1	17.0
0.25	--	--
0.30	15.3	18.7
0.40	15.6	17.2
0.50	14.7	15.5
0.60	13.2	14.6
0.80	11.4	--
1.00	11.1	--
1.25	12.0	--
1.50	12.9	--
1.75	32.0	--
2.00	38.3	--
2.25	40.5	--
2.50	--	--

Table 12.--Periodical soil water content and soil temperature data for site 3

[Neutron, neutron scattering method; TDR, time-domain reflectometry method;
--, indicates no data]

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>October 1, 1985</u>				<u>October 29, 1985</u>		
0.05	--	6.6	2	--	6.1	6
0.10	--	6.5	3	--	6.1	7
0.15	--	7.2	5	--	6.6	7
0.20	6.0	6.3	5	5.5	5.8	8
0.25	--	--	6	--	--	8
0.30	7.0	6.1	7	--	5.6	8
0.40	7.0	6.5	8	6.6	5.9	8
0.50	6.0	7.0	9	--	5.4	8
0.60	5.5	5.6	9	5.4	4.9	8
0.80	5.0	--	10	4.7	--	8
1.00	5.0	--	11	4.1	--	8
1.25	5.0	--	12	5.1	--	9
1.50	7.0	--	12	7.1	--	9
1.75	10.5	--	12	10.6	--	10
2.00	14.0	--	12	14.0	--	10
2.25	23.0	--	--	23.5	--	--
2.50	--	--	12	--	--	10
<u>October 30, 1985</u>				<u>November 18, 1985</u>		
0.05	--	18.0	5	--	5.3	-5
0.10	--	16.8	5	--	5.8	-4
0.15	--	13.4	5	--	7.3	-4
0.20	17.4	11.0	5	14.7	7.3	-3
0.25	--	--	5	--	--	-2
0.30	--	10.3	5	--	14.4	-2
0.40	13.8	5.6	6	16.8	11.8	-1
0.50	--	7.5	6	--	14.6	-1
0.60	6.0	5.6	7	11.7	8.8	0
0.80	4.9	--	8	6.0	--	1
1.00	4.9	--	8	5.2	--	2
1.25	5.1	--	9	5.4	--	4
1.50	7.0	--	9	7.6	--	5
1.75	10.7	--	9	12.9	--	6
2.00	13.9	--	9	14.7	--	6
2.25	20.5	--	--	16.9	--	--
2.50	--	--	10	--	--	7

Table 12.--Periodical soil water content and soil temperature data for site 3--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>December 3, 1985</u>				<u>December 16, 1985</u>		
0.05	--	4.9	-4	--	5.3	-6
0.10	--	5.4	-4	--	4.8	-5
0.15	--	5.9	-3	--	6.1	-4
0.20	17.1	6.1	-3	16.3	6.5	-4
0.25	--	--	-2	--	--	-4
0.30	--	9.0	-1	--	8.2	-3
0.40	17.2	12.0	0	18.9	7.3	-2
0.50	--	10.5	0	--	7.3	-1
0.60	9.5	9.3	1	9.4	8.8	-1
0.80	5.7	--	2	5.8	--	0
1.00	5.0	--	3	4.9	--	1
1.25	5.0	--	4	5.2	--	2
1.50	7.4	--	5	7.4	--	4
1.75	12.1	--	6	11.9	--	4
2.00	14.5	--	7	13.9	--	5
2.25	15.7	--	--	22.7	--	--
2.50	--	--	8	--	--	6
<u>January 7, 1986</u>				<u>February 5, 1986</u>		
0.05	--	--	-11	--	--	-5
0.10	--	--	-10	--	--	-5
0.15	--	--	-9	--	--	-5
0.20	17.0	--	-9	17.6	--	-5
0.25	--	--	-8	--	--	-5
0.30	--	--	-8	--	--	-5
0.40	18.1	--	-7	18.0	--	-5
0.50	--	--	-6	--	--	-4
0.60	9.3	--	-5	9.1	--	-4
0.80	5.6	--	-4	5.7	--	-3
1.00	4.9	--	-2	4.9	--	-2
1.25	5.0	--	0	5.1	--	-1
1.50	7.7	--	2	8.0	--	0
1.75	11.8	--	3	11.8	--	1
2.00	13.9	--	4	14.1	--	1
2.25	15.0	--	--	20.5	--	--
2.50	--	--	5	--	--	3

Table 12.--Periodical soil water content and soil temperature data for site 3--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>March 3, 1986</u>				<u>March 13, 1986</u>		
0.05	--	6.0	0	--	10.0	0
0.10	--	5.6	0	--	12.6	0
0.15	--	6.5	-1	--	11.8	0
0.20	18.6	7.3	-1	19.4	11.8	-1
0.25	--	--	-1	--	--	-1
0.30	--	8.0	-1	22.8	8.4	-1
0.40	17.8	6.6	-1	18.7	6.6	-1
0.50	--	6.6	-1	13.1	7.7	-1
0.60	9.7	5.6	-1	9.5	4.3	-1
0.80	5.7	--	-1	5.8	--	-1
1.00	5.1	--	-1	5.1	--	0
1.25	5.2	--	0	5.3	--	0
1.50	8.1	--	1	8.2	--	1
1.75	12.0	--	2	12.3	--	1
2.00	14.4	--	2	14.6	--	2
2.25	15.2	--	--	15.9	--	--
2.50	--	--	4	--	--	3
<u>March 15, 1986</u>				<u>March 21, 1986, at 1431 hours</u>		
0.05	--	16.0	-2	--	9.1	--
0.10	--	16.6	-2	--	10.1	--
0.15	--	15.4	-2	--	10.6	--
0.20	20.3	13.8	-2	27.0	14.0	--
0.25	--	--	-2	--	--	--
0.30	23.1	10.6	-2	27.1	18.0	--
0.40	18.5	6.5	-2	19.6	13.6	--
0.50	12.7	7.5	-2	13.4	16.6	--
0.60	9.4	5.4	-2	9.6	9.5	--
0.80	5.7	--	-2	5.8	--	--
1.00	5.0	--	-2	5.1	--	--
1.25	5.4	--	-1	5.4	--	--
1.50	8.2	--	0	8.1	--	--
1.75	12.3	--	0	12.2	--	--
2.00	14.6	--	1	14.9	--	--
2.25	15.9	--	--	18.2	--	--
2.50	--	--	2	--	--	--

Table 12.--Periodical soil water content and soil temperature data for site 3--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
	<u>March 22, 1986, at 0929 hours</u>			<u>March 22, 1986, at 1212 hours</u>		
0.05	--	11.6	--	--	12.0	--
0.10	--	10.5	--	--	10.1	--
0.15	--	11.4	--	--	10.3	--
0.20	26.9	14.0	--	30.6	12.0	--
0.25	--	--	--	--	--	--
0.30	26.4	16.4	--	28.8	14.0	--
0.40	19.5	13.0	--	19.3	13.0	--
0.50	13.3	16.0	--	12.9	15.0	--
0.60	9.8	9.1	--	9.3	9.1	--
0.80	--	--	--	--	--	--
1.00	--	--	--	--	--	--
1.25	--	--	--	--	--	--
1.50	--	--	--	--	--	--
1.75	--	--	--	--	--	--
2.00	--	--	--	--	--	--
2.25	--	--	--	--	--	--
2.50	--	--	--	--	--	--
	<u>March 22, 1986, at 1437 hours</u>			<u>March 23, 1986, at 0947 hours</u>		
0.05	--	14.0	--	--	25.3	--
0.10	--	10.3	--	--	11.2	--
0.15	--	11.2	--	--	12.0	--
0.20	32.4	12.0	--	34.3	12.6	--
0.25	--	--	--	--	--	--
0.30	28.8	16.0	--	29.8	16.8	--
0.40	18.8	12.0	--	19.6	13.0	--
0.50	12.7	17.4	--	12.6	16.0	--
0.60	9.5	9.1	--	9.4	10.1	--
0.80	--	--	--	--	--	--
1.00	--	--	--	--	--	--
1.25	--	--	--	--	--	--
1.50	--	--	--	--	--	--
1.75	--	--	--	--	--	--
2.00	--	--	--	--	--	--
2.25	--	--	--	--	--	--
2.50	--	--	--	--	--	--

Table 12.--Periodical soil water content and soil temperature data for site 3--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>March 24, 1986</u>				<u>March 27, 1986</u>		
0.05	--	29.7	1	--	24.2	5
0.10	--	15.0	-1	--	25.9	2
0.15	--	11.2	-1	--	27.7	-1
0.20	37.3	10.6	-1	34.0	19.7	-1
0.25	--	--	-2	--	--	-2
0.30	31.3	14.0	-2	30.6	14.4	-2
0.40	20.2	11.0	-1	19.7	11.4	-2
0.50	13.1	13.0	-1	13.1	13.0	-2
0.60	9.6	8.2	-1	9.6	8.2	-2
0.80	5.9	--	-1	5.8	--	-2
1.00	5.3	--	-1	5.1	--	-1
1.25	5.5	--	-1	5.4	--	-1
1.50	8.3	--	0	8.1	--	0
1.75	12.5	--	0	12.3	--	0
2.00	15.0	--	1	14.9	--	1
2.25	16.4	--	--	16.0	--	--
2.50	--	--	2	--	--	2
<u>April 7, 1986</u>				<u>April 16, 1986</u>		
0.05	--	14.6	10	--	20.1	3
0.10	--	17.0	8	--	21.5	1
0.15	--	18.2	6	--	22.2	1
0.20	17.4	18.6	6	19.0	21.1	1
0.25	--	--	5	--	--	1
0.30	20.9	19.9	4	20.7	22.2	1
0.40	21.4	17.6	3	20.2	19.0	1
0.50	19.1	20.3	3	17.8	21.7	2
0.60	16.8	15.0	2	15.1	17.0	2
0.80	15.1	--	2	13.1	--	2
1.00	12.7	--	1	11.9	--	3
1.25	7.9	--	1	11.1	--	3
1.50	8.4	--	1	11.3	--	3
1.75	12.2	--	1	15.6	--	3
2.00	15.2	--	2	17.4	--	3
2.25	16.8	--	--	19.3	--	--
2.50	--	--	2	--	--	3

Table 12.--Periodical soil water content and soil temperature data for site 3--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>October 7, 1986</u>				<u>October 27, 1986</u>		
0.05	--	11.8	12	--	5.8	9
0.10	--	14.6	11	--	7.9	8
0.15	--	15.6	10	--	11.0	7
0.20	13.8	15.0	10	10.2	12.6	7
0.25	--	--	10	--	--	7
0.30	18.2	16.2	10	15.3	14.6	7
0.40	18.1	15.0	10	16.2	14.2	8
0.50	15.9	16.6	10	14.3	15.4	8
0.60	13.7	12.6	11	12.4	12.2	9
0.80	11.5	--	11	10.2	--	9
1.00	11.1	--	11	9.9	--	10
1.25	11.1	--	12	10.1	--	10
1.50	11.8	--	12	10.6	--	10
1.75	16.9	--	12	16.6	--	10
2.00	23.9	--	12	24.9	--	11
2.25	42.1	--	--	41.9	--	--
2.50	--	--	12	--	--	11
<u>November 17, 1986</u>				<u>December 4, 1986</u>		
0.05	--	5.3	-4	--	5.6	-5
0.10	--	6.6	-3	--	5.6	-4
0.15	--	7.9	-3	--	7.3	-3
0.20	16.7	9.1	-2	16.8	8.2	-2
0.25	--	--	-2	--	--	-2
0.30	17.7	15.2	-1	17.6	16.0	-1
0.40	16.9	14.2	-1	17.4	15.0	-1
0.50	14.6	16.6	0	14.5	16.0	0
0.60	12.3	12.4	--	12.4	12.0	2
0.80	9.9	--	--	9.9	--	3
1.00	9.5	--	--	9.5	--	4
1.25	9.3	--	--	9.2	--	5
1.50	10.1	--	--	10.1	--	6
1.75	16.5	--	--	16.2	--	7
2.00	25.1	--	--	25.5	--	8
2.25	42.8	--	--	38.9	--	--
2.50	--	--	--	--	--	9

Table 12.--Periodical soil water content and soil temperature data for site 3--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>January 6, 1987</u>				<u>February 9, 1987</u>		
0.05	--	6.5	-2	--	--	0
0.10	--	5.6	-2	--	--	-1
0.15	--	7.3	-2	--	--	-1
0.20	16.9	8.2	-2	17.2	--	-1
0.25	--	--	-2	--	--	-1
0.30	19.7	8.2	-2	20.3	--	-1
0.40	18.1	8.2	-2	19.0	--	-1
0.50	14.4	8.2	-1	14.9	--	0
0.60	11.7	7.3	-1	12.1	--	0
0.80	9.0	--	0	9.3	--	0
1.00	8.8	--	1	8.7	--	1
1.25	8.7	--	2	8.9	--	2
1.50	9.4	--	2	9.5	--	3
1.75	15.2	--	3	15.6	--	3
2.00	22.9	--	4	22.9	--	4
2.25	38.0	--	--	40.0	--	--
2.50	--	--	5	--	--	5
<u>February 11, 1987</u>				<u>March 4, 1987</u>		
0.05	--	6.9	--	--	--	0
0.10	--	5.8	--	--	--	0
0.15	--	5.6	--	--	--	0
0.20	--	6.6	--	32.0	--	0
0.25	--	--	--	--	--	0
0.30	--	7.1	--	27.4	--	0
0.40	--	7.7	--	19.5	--	0
0.50	--	7.1	--	14.9	--	0
0.60	--	7.7	--	11.7	--	0
0.80	--	--	--	9.1	--	0
1.00	--	--	--	8.7	--	1
1.25	--	--	--	8.9	--	2
1.50	--	--	--	9.6	--	2
1.75	--	--	--	15.6	--	3
2.00	--	--	--	23.4	--	3
2.25	--	--	--	41.6	--	--
2.50	--	--	--	--	--	4

Table 12.--Periodical soil water content and soil temperature data for site 3--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>March 5, 1987</u>				<u>March 11, 1987</u>		
0.05	--	13.6	1	--	7.4	-1
0.10	--	12.3	1	--	8.4	-1
0.15	--	9.7	1	--	12.0	-1
0.20	31.5	8.9	1	34.2	14.2	-1
0.25	--	--	1	--	--	-1
0.30	26.5	9.0	1	32.9	10.4	-1
0.40	19.1	8.1	1	23.6	12.6	-1
0.50	14.4	8.9	1	15.9	9.8	-1
0.60	11.3	11.3	1	12.3	37.1	0
0.80	8.8	--	1	9.1	--	1
1.00	8.5	--	2	8.8	--	1
1.25	8.7	--	2	8.8	--	2
1.50	9.4	--	3	9.7	--	2
1.75	15.3	--	4	16.0	--	3
2.00	23.0	--	4	24.3	--	3
2.25	40.6	--	--	--	--	--
2.50	--	--	5	--	--	4
<u>March 26, 1987</u>				<u>April 1, 1987</u>		
0.05	--	18.6	0	--	16.5	0
0.10	--	21.1	0	--	13.7	0
0.15	--	23.3	0	--	14.7	0
0.20	28.1	22.6	0	25.4	16.5	0
0.25	--	--	0	--	--	0
0.30	29.1	20.1	0	24.4	18.2	0
0.40	23.6	17.5	0	21.1	16.9	0
0.50	19.9	20.3	0	18.1	19.2	0
0.60	17.8	16.8	0	15.8	15.8	0
0.80	15.7	--	1	13.6	--	1
1.00	15.0	--	1	13.0	--	1
1.25	14.5	--	2	13.0	--	2
1.50	14.4	--	2	14.0	--	2
1.75	20.4	--	3	24.5	--	3
2.00	34.5	--	3	38.3	--	3
2.25	40.8	--	--	42.8	--	--
2.50	--	--	4	--	--	4

Table 12.--Periodical soil water content and soil temperature data for site 3--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>April 16, 1987</u>			
0.05	--	11.9	12
0.10	--	14.6	10
0.15	--	16.0	9
0.20	13.9	16.2	8
0.25	--	--	7
0.30	17.9	16.8	7
0.40	18.2	15.9	7
0.50	16.0	17.5	7
0.60	13.9	14.0	6
0.80	11.9	--	6
1.00	11.1	--	5
1.25	11.5	--	5
1.50	13.6	--	5
1.75	32.1	--	5
2.00	39.9	--	5
2.25	40.5	--	--
2.50	--	--	5

Table 13.--Periodical soil water content data for site 4

[Neutron, neutron scattering method; TDR, time-domain reflectometry method;
--, indicates no data]

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)
<div> <div>October 2, 1985</div> <div>October 30, 1985</div> <div>November 19, 1985</div> </div>						
0.05	--	10.1	--	8.0	--	5.9
0.10	--	10.1	--	10.1	--	6.6
0.15	--	9.5	--	9.7	--	7.0
0.20	8.5	10.1	7.6	9.1	7.9	7.7
0.25	--	--	--	--	--	--
0.30	9.5	7.3	--	6.8	--	6.5
0.40	8.0	6.3	8.3	6.8	8.0	6.1
0.50	7.0	6.5	--	6.1	--	6.1
0.60	6.5	6.1	6.5	6.3	6.5	7.0
0.80	6.0	--	5.9	--	6.0	--
1.00	5.5	--	5.6	--	5.6	--
1.25	5.5	--	5.8	--	5.8	--
1.50	7.5	--	7.3	--	7.3	--
1.75	9.5	--	9.6	--	9.4	--
2.00	15.0	--	14.4	--	14.0	--
2.25	23.0	--	21.6	--	17.8	--
2.50	--	--	--	--	--	--
<div> <div>December 4, 1985</div> <div>December 17, 1985</div> <div>January 8, 1986</div> </div>						
0.05	--	5.0	--	5.3	--	--
0.10	--	6.0	--	5.6	--	--
0.15	--	5.6	--	4.8	--	--
0.20	7.8	6.1	8.1	6.1	11.1	--
0.25	--	--	--	--	--	--
0.30	--	5.8	--	6.5	--	--
0.40	8.2	5.9	8.4	6.5	8.2	--
0.50	--	6.1	--	6.5	--	--
0.60	6.5	5.9	6.6	6.5	6.6	--
0.80	5.9	--	6.1	--	6.1	--
1.00	5.5	--	5.6	--	5.6	--
1.25	5.8	--	5.7	--	5.9	--
1.50	7.3	--	7.2	--	7.3	--
1.75	9.3	--	9.3	--	9.4	--
2.00	13.8	--	13.5	--	14.5	--
2.25	17.4	--	22.4	--	18.1	--
2.50	--	--	--	--	--	--

Table 13.--Periodical soil water content data for site 4--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)
	<u>February 5, 1986</u>		<u>March 4, 1986</u>		<u>March 5, 1986</u>	
0.05	--	--	--	6.0	--	7.7
0.10	--	--	--	7.0	--	7.7
0.15	--	--	--	5.9	--	6.0
0.20	11.5	--	16.3	7.5	--	7.3
0.25	--	--	--	--	--	--
0.30	--	--	--	5.8	--	6.0
0.40	8.2	--	8.6	5.2	--	6.0
0.50	--	--	--	5.8	--	6.0
0.60	6.5	--	6.7	6.1	--	6.0
0.80	5.9	--	6.1	--	--	--
1.00	5.4	--	5.7	--	--	--
1.25	5.8	--	6.0	--	--	--
1.50	7.5	--	7.5	--	--	--
1.75	9.5	--	9.7	--	--	--
2.00	13.8	--	14.9	--	--	--
2.25	18.9	--	18.1	--	--	--
2.50	--	--	--	--	--	--
	<u>March 12, 1986</u>		<u>March 13, 1986</u>		<u>March 15, 1986</u>	
0.05	--	6.1	--	8.4	--	12.0
0.10	--	6.5	--	8.0	--	10.1
0.15	--	7.2	--	8.0	--	7.7
0.20	17.1	6.8	16.7	8.0	17.9	7.7
0.25	--	--	--	--	--	--
0.30	--	5.4	11.5	6.5	11.2	6.5
0.40	8.6	4.3	8.6	6.6	8.4	6.6
0.50	--	4.3	7.1	5.6	7.2	5.4
0.60	6.6	4.6	6.8	5.6	6.7	5.9
0.80	6.0	--	6.2	--	6.1	--
1.00	5.7	--	5.8	--	5.7	--
1.25	6.0	--	6.0	--	6.0	--
1.50	7.5	--	7.5	--	7.6	--
1.75	9.7	--	9.7	--	9.7	--
2.00	14.8	--	15.8	--	15.7	--
2.25	18.6	--	18.6	--	18.7	--
2.50	--	--	--	--	--	--

Table 13.--Periodical soil water content data for site 4--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)
	<u>March 16, 1986</u>		<u>March 21, 1986, at 1454 hours</u>		<u>March 22, 1986, at 0947 hours</u>	
0.05	--	9.3	--	9.1	--	15.0
0.10	--	11.8	--	7.0	--	9.1
0.15	--	6.1	--	8.0	--	8.4
0.20	17.4	9.0	23.5	7.3	22.9	9.3
0.25	--	--	--	--	--	--
0.30	11.3	5.8	17.9	9.9	17.2	10.1
0.40	8.4	6.1	11.5	7.9	11.6	8.2
0.50	7.0	5.3	8.3	6.5	8.8	7.9
0.60	6.4	5.3	7.0	7.2	6.9	7.9
0.80	5.9	--	6.2	--	--	--
1.00	5.5	--	5.8	--	--	--
1.25	5.8	--	6.1	--	--	--
1.50	7.1	--	7.6	--	--	--
1.75	9.4	--	9.8	--	--	--
2.00	14.7	--	15.4	--	--	--
2.25	17.5	--	22.4	--	--	--
2.50	--	--	--	--	--	--
	<u>March 22, 1986, at 1233 hours</u>		<u>March 22, 1986, at 1451 hours</u>		<u>March 23, 1986, at 1006 hours</u>	
0.05	--	28.3	--	31.3	--	28.7
0.10	--	9.1	--	14.0	--	19.7
0.15	--	7.9	--	9.1	--	12.8
0.20	22.6	8.2	23.1	9.1	23.6	10.7
0.25	--	--	--	--	--	--
0.30	17.2	10.1	17.6	9.7	17.5	9.7
0.40	11.5	7.9	11.7	8.4	11.5	8.2
0.50	8.2	6.6	8.0	6.9	8.0	7.3
0.60	--	7.3	6.8	6.5	6.7	7.7
0.80	--	--	--	--	--	--
1.00	--	--	--	--	--	--
1.25	--	--	--	--	--	--
1.50	--	--	--	--	--	--
1.75	--	--	--	--	--	--
2.00	--	--	--	--	--	--
2.25	--	--	--	--	--	--
2.50	--	--	--	--	--	--

Table 13.--Periodical soil water content data for site 4--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)
	<u>March 24, 1986</u>		<u>March 27, 1986</u>		<u>April 7, 1986</u>	
0.05	--	26.9	--	18.6	--	17.8
0.10	--	18.4	--	17.2	--	16.6
0.15	--	12.2	--	13.8	--	14.6
0.20	25.0	13.0	18.1	14.8	17.4	19.0
0.25	--	--	--	--	--	--
0.30	21.6	9.1	21.1	13.0	21.8	19.0
0.40	13.6	8.6	18.4	11.8	20.4	16.0
0.50	9.1	6.0	13.4	5.6	18.5	15.2
0.60	7.3	6.5	8.7	5.3	17.3	13.8
0.80	6.3	--	6.1	--	12.1	--
1.00	6.0	--	5.7	--	6.3	--
1.25	6.0	--	6.1	--	6.0	--
1.50	7.5	--	7.5	--	7.6	--
1.75	9.7	--	9.9	--	9.7	--
2.00	13.6	--	15.8	--	15.1	--
2.25	19.0	--	18.7	--	22.1	--
2.50	--	--	--	--	--	--
	<u>April 16, 1986</u>		<u>October 7, 1986</u>		<u>October 27, 1986</u>	
0.05	--	24.2	--	15.4	--	8.4
0.10	--	21.3	--	14.2	--	10.3
0.15	--	18.0	--	14.6	--	12.2
0.20	22.1	19.7	13.9	18.4	10.8	16.2
0.25	--	--	--	--	--	--
0.30	22.8	18.4	18.1	17.6	16.1	16.0
0.40	20.7	18.4	17.4	17.4	15.8	15.6
0.50	18.5	17.0	15.5	15.4	14.1	15.0
0.60	17.1	16.2	14.7	15.8	13.3	13.3
0.80	14.3	--	13.3	--	12.1	--
1.00	8.7	--	12.4	--	11.5	--
1.25	6.1	--	12.0	--	11.0	--
1.50	7.6	--	11.8	--	11.3	--
1.75	9.9	--	15.5	--	16.0	--
2.00	17.7	--	31.1	--	32.5	--
2.25	31.0	--	39.3	--	39.4	--
2.50	--	--	--	--	--	--

Table 13.--Periodical soil water content data for site 4--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)
	<u>November 17, 1986</u>		<u>December 4, 1986</u>		<u>January 6, 1987</u>	
0.05	--	6.3	--	7.3	--	8.2
0.10	--	7.2	--	8.2	--	8.2
0.15	--	7.9	--	8.2	--	7.3
0.20	17.2	13.8	18.9	10.1	18.3	8.2
0.25	--	--	--	--	--	--
0.30	18.8	17.2	18.4	16.0	18.9	8.2
0.40	16.1	15.6	16.5	15.0	16.0	8.2
0.50	13.8	14.4	13.3	14.0	13.8	8.2
0.60	12.9	13.4	12.9	14.0	12.9	9.1
0.80	11.6	--	11.7	--	10.3	--
1.00	10.7	--	10.9	--	10.0	--
1.25	10.2	--	10.2	--	9.5	--
1.50	11.0	--	11.0	--	10.1	--
1.75	16.0	--	15.9	--	14.6	--
2.00	33.5	--	33.2	--	30.1	--
2.25	39.7	--	40.2	--	37.0	--
2.50	--	--	--	--	--	--
	<u>February 9, 1987</u>		<u>February 11, 1987</u>		<u>March 4, 1987</u>	
0.05	--	--	--	6.6	--	--
0.10	--	--	--	6.9	--	--
0.15	--	--	--	7.0	--	--
0.20	18.8	--	--	7.0	31.0	--
0.25	--	--	--	--	--	--
0.30	19.8	--	--	8.2	23.2	--
0.40	16.6	--	--	7.8	16.9	--
0.50	14.3	--	--	7.6	14.4	--
0.60	13.9	--	--	7.4	13.4	--
0.80	10.8	--	--	--	10.8	--
1.00	10.1	--	--	--	10.2	--
1.25	9.7	--	--	--	9.7	--
1.50	10.2	--	--	--	10.2	--
1.75	15.0	--	--	--	14.9	--
2.00	31.0	--	--	--	32.2	--
2.25	39.0	--	--	--	39.2	--
2.50	--	--	--	--	--	--

Table 13.--Periodical soil water content data for site 4--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)
	<u>March 5, 1987</u>		<u>March 11, 1987</u>		<u>March 26, 1987</u>	
0.05	--	15.0	--	10.2	--	20.1
0.10	--	15.4	--	13.9	--	19.6
0.15	--	12.1	--	15.2	--	20.1
0.20	30.2	10.7	29.9	16.8	23.7	24.7
0.25	--	--	--	--	--	--
0.30	22.9	9.4	27.7	11.5	26.1	20.9
0.40	16.8	8.8	19.9	10.5	21.9	18.8
0.50	14.1	10.0	15.4	13.6	19.4	18.2
0.60	12.8	12.5	13.4	13.6	18.8	18.1
0.80	10.4	--	11.1	--	17.2	--
1.00	9.7	--	10.1	--	15.8	--
1.25	9.5	--	9.7	--	14.7	--
1.50	10.1	--	10.4	--	14.2	--
1.75	15.0	--	15.5	--	24.0	--
2.00	31.4	--	33.1	--	37.8	--
2.25	38.6	--	--	--	38.5	--
2.50	--	--	--	--	--	--
	<u>April 1, 1987</u>		<u>April 16, 1987</u>			
0.05	--	17.7	--	13.1		
0.10	--	17.2	--	13.8		
0.15	--	16.0	--	13.6		
0.20	20.0	20.3	13.9	17.9		
0.25	--	--	--	--		
0.30	21.3	19.0	17.9	17.0		
0.40	19.4	17.2	17.1	15.8		
0.50	17.2	16.7	15.0	15.3		
0.60	16.3	16.7	14.3	15.0		
0.80	14.9	--	13.4	--		
1.00	14.2	--	12.4	--		
1.25	13.8	--	12.9	--		
1.50	15.3	--	17.9	--		
1.75	32.0	--	38.1	--		
2.00	39.4	--	40.1	--		
2.25	39.9	--	40.2	--		
2.50	--	--	--	--		

Table 14.--Periodical soil water content and soil temperature data for site 5

[Neutron, neutron scattering method; TDR, time-domain reflectometry method;
--, indicates no data; soil temperature after January 8, 1986, are
continuously recorded and are listed in Table 12]

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>October 2, 1985</u>			<u>October 30, 1985</u>			
0.05	--	8.0	--	--	6.6	0
0.10	--	9.1	--	--	10.1	1
0.15	--	9.1	--	--	10.6	2
0.20	9.5	10.1	--	8.6	9.5	4
0.25	--	--	--	--	--	5
0.30	9.5	7.0	--	--	6.6	6
0.40	8.0	5.6	--	7.7	5.8	7
0.50	6.5	5.9	--	--	6.1	8
0.60	6.5	5.3	--	6.3	6.1	8
0.80	6.0	--	--	6.2	--	8
1.00	6.0	--	--	6.2	--	7
1.25	7.5	--	--	7.3	--	7
1.50	8.5	--	--	8.3	--	8
1.75	9.0	--	--	8.5	--	9
2.00	25.5	--	--	25.0	--	9
2.25	15.0	--	--	15.1	--	--
2.50	--	--	--	--	--	9
<u>November 19, 1985</u>			<u>December 4, 1985</u>			
0.05	--	5.3	-2	--	4.3	-4
0.10	--	6.3	-2	--	5.3	-4
0.15	--	7.2	-1	--	5.6	-3
0.20	9.8	7.7	0	10.0	5.6	-3
0.25	--	--	0	--	--	-2
0.30	--	6.6	0	--	5.8	-2
0.40	7.9	5.9	1	7.7	5.3	-1
0.50	--	5.9	2	--	5.8	0
0.60	6.4	5.3	3	6.3	5.1	2
0.80	6.3	--	5	6.1	--	4
1.00	6.2	--	6	6.1	--	--
1.25	7.5	--	8	7.4	--	5
1.50	8.2	--	8	8.1	--	6
1.75	8.4	--	8	8.4	--	8
2.00	24.5	--	9	24.0	--	8
2.25	13.3	--	--	13.0	--	--
2.50	--	--	9	--	--	8

Table 14.--Periodical soil water content and soil temperature data for site 5--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>December 17, 1985</u>				<u>January 8, 1986</u>		
0.05	--	4.8	-4	--	--	--
0.10	--	6.1	-3	--	--	--
0.15	--	6.6	-3	--	--	--
0.20	10.0	7.0	-2	10.7	--	--
0.25	--	--	-1	--	--	--
0.30	--	6.5	-1	--	--	--
0.40	8.0	5.6	-1	8.1	--	--
0.50	--	6.5	0	--	--	--
0.60	6.5	6.5	1	6.5	--	--
0.80	6.1	--	2	6.1	--	--
1.00	6.0	--	--	6.1	--	--
1.25	7.3	--	4	7.4	--	--
1.50	8.1	--	4	8.2	--	--
1.75	8.4	--	5	8.3	--	--
2.00	23.7	--	6	25.0	--	--
2.25	15.4	--	--	13.6	--	--
2.50	--	--	7	--	--	--
<u>February 5, 1986</u>				<u>March 4, 1986</u>		
0.05	--	--	--	--	8.8	--
0.10	--	--	--	--	7.0	--
0.15	--	--	--	--	6.6	--
0.20	11.2	--	--	12.0	7.3	--
0.25	--	--	--	--	--	--
0.30	--	--	--	--	6.3	--
0.40	7.7	--	--	7.9	5.9	--
0.50	--	--	--	--	5.8	--
0.60	6.4	--	--	6.6	4.9	--
0.80	6.0	--	--	6.4	--	--
1.00	6.2	--	--	6.1	--	--
1.25	7.2	--	--	7.5	--	--
1.50	8.2	--	--	8.3	--	--
1.75	8.3	--	--	8.7	--	--
2.00	24.4	--	--	25.5	--	--
2.25	14.9	--	--	14.0	--	--
2.50	--	--	--	--	--	--

Table 14.--Periodical soil water content and soil temperature data for site 5--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>March 5, 1986</u>				<u>March 12, 1986</u>		
0.05	--	9.0	--	--	8.6	--
0.10	--	7.5	--	--	7.7	--
0.15	--	6.6	--	--	7.3	--
0.20	--	6.8	--	12.3	5.6	--
0.25	--	--	--	--	--	--
0.30	--	5.6	--	--	4.3	--
0.40	--	5.3	--	8.1	4.5	--
0.50	--	5.3	--	--	4.0	--
0.60	--	5.6	--	6.6	4.0	--
0.80	--	--	--	6.2	--	--
1.00	--	--	--	6.2	--	--
1.25	--	--	--	7.6	--	--
1.50	--	--	--	8.4	--	--
1.75	--	--	--	8.7	--	--
2.00	--	--	--	26.3	--	--
2.25	--	--	--	14.1	--	--
2.50	--	--	--	--	--	--
<u>March 13, 1986</u>				<u>March 15, 1986</u>		
0.05	--	9.1	--	--	9.0	--
0.10	--	8.0	--	--	8.8	--
0.15	--	7.3	--	--	7.3	--
0.20	12.3	5.8	--	12.6	7.3	--
0.25	--	--	--	--	--	--
0.30	9.8	5.1	--	9.8	5.9	--
0.40	8.0	6.1	--	7.8	5.9	--
0.50	7.0	4.5	--	6.9	5.9	--
0.60	6.8	4.0	--	6.5	5.3	--
0.80	6.4	--	--	6.2	--	--
1.00	6.3	--	--	6.3	--	--
1.25	7.7	--	--	7.7	--	--
1.50	8.4	--	--	8.2	--	--
1.75	8.8	--	--	8.7	--	--
2.00	25.8	--	--	26.4	--	--
2.25	14.1	--	--	14.1	--	--
2.50	--	--	--	--	--	--

Table 14.--Periodical soil water content and soil temperature data for site 5--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>March 16, 1986</u>				<u>March 21, 1986, at 1514 hours</u>		
0.05	--	9.9	--	--	8.2	--
0.10	--	7.3	--	--	8.2	--
0.15	--	7.7	--	--	8.0	--
0.20	12.1	6.8	--	18.5	9.1	--
0.25	--	--	--	--	--	--
0.30	9.5	5.6	--	12.4	6.6	--
0.40	7.6	5.9	--	9.1	6.6	--
0.50	6.7	6.3	--	7.5	6.5	--
0.60	6.3	7.9	--	7.1	7.3	--
0.80	6.0	--	--	6.4	--	--
1.00	6.0	--	--	6.4	--	--
1.25	7.2	--	--	7.7	--	--
1.50	8.0	--	--	8.4	--	--
1.75	8.3	--	--	8.8	--	--
2.00	24.8	--	--	25.6	--	--
2.25	13.3	--	--	16.4	--	--
2.50	--	--	--	--	--	--
<u>March 21, 1986, at 1718 hours</u>				<u>March 22, 1986, at 0958 hours</u>		
0.05	--	9.1	--	--	11.0	--
0.10	--	8.0	--	--	9.1	--
0.15	--	8.2	--	--	8.0	--
0.20	18.0	8.4	--	17.8	9.5	--
0.25	--	--	--	--	--	--
0.30	12.1	7.9	--	12.2	8.2	--
0.40	8.9	6.5	--	9.0	7.0	--
0.50	7.4	7.2	--	7.7	7.3	--
0.60	6.9	5.6	--	7.0	6.6	--
0.80	--	--	--	--	--	--
1.00	--	--	--	--	--	--
1.25	--	--	--	--	--	--
1.50	--	--	--	--	--	--
1.75	--	--	--	--	--	--
2.00	--	--	--	--	--	--
2.25	--	--	--	--	--	--
2.50	--	--	--	--	--	--

Table 14.--Periodical soil water content and soil temperature data for site 5--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
	<u>March 22, 1986, at 1248 hours</u>			<u>March 22, 1986, at 1504 hours</u>		
0.05	--	11.4	--	--	12.8	--
0.10	--	8.2	--	--	9.7	--
0.15	--	8.4	--	--	8.0	--
0.20	23.6	10.1	--	26.3	9.5	--
0.25	--	--	--	--	--	--
0.30	17.1	8.2	--	23.1	7.5	--
0.40	10.8	7.3	--	16.3	7.2	--
0.50	7.7	7.0	--	9.7	6.6	--
0.60	6.9	6.5	--	7.5	6.5	--
0.80	--	--	--	--	--	--
1.00	--	--	--	--	--	--
1.25	--	--	--	--	--	--
1.50	--	--	--	--	--	--
1.75	--	--	--	--	--	--
2.00	--	--	--	--	--	--
2.25	--	--	--	--	--	--
2.50	--	--	--	--	--	--
	<u>March 22, 1986, at 1640 hours</u>			<u>March 22, 1986, at 1729 hours</u>		
0.05	--	13.8	--	--	13.0	--
0.10	--	9.1	--	--	10.3	--
0.15	--	8.2	--	--	9.1	--
0.20	26.1	9.1	--	26.1	10.1	--
0.25	--	--	--	--	--	--
0.30	22.8	8.4	--	22.9	7.9	--
0.40	16.4	6.5	--	16.8	6.6	--
0.50	10.3	7.3	--	10.6	7.3	--
0.60	7.6	6.5	--	7.8	6.5	--
0.80	--	--	--	--	--	--
1.00	--	--	--	--	--	--
1.25	--	--	--	--	--	--
1.50	--	--	--	--	--	--
1.75	--	--	--	--	--	--
2.00	--	--	--	--	--	--
2.25	--	--	--	--	--	--
2.50	--	--	--	--	--	--

Table 14.--Periodical soil water content and soil temperature data for site 5--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>March 23, 1986, at 1021 hours</u>				<u>March 23, 1986, at 1238 hours</u>		
0.05	--	16.0	--	--	19.0	--
0.10	--	11.8	--	--	10.1	--
0.15	--	9.1	--	--	10.1	--
0.20	24.3	10.1	--	24.2	10.1	--
0.25	--	--	--	--	--	--
0.30	21.5	9.1	--	21.4	9.7	--
0.40	17.2	7.7	--	17.2	8.2	--
0.50	12.4	7.3	--	12.2	8.8	--
0.60	8.6	7.0	--	8.6	7.0	--
0.80	6.3	--	--	--	--	--
1.00	6.3	--	--	--	--	--
1.25	7.6	--	--	--	--	--
1.50	8.2	--	--	--	--	--
1.75	8.6	--	--	--	--	--
2.00	25.8	--	--	--	--	--
2.25	16.2	--	--	--	--	--
2.50	--	--	--	--	--	--
<u>March 24, 1986</u>				<u>March 27, 1986</u>		
0.05	--	23.2	--	--	17.8	--
0.10	--	13.4	--	--	15.4	--
0.15	--	8.8	--	--	11.4	--
0.20	24.1	9.5	--	18.7	12.8	--
0.25	--	--	--	--	--	--
0.30	21.8	8.0	--	19.9	11.0	--
0.40	18.3	7.7	--	17.7	8.8	--
0.50	14.7	7.0	--	15.6	7.3	--
0.60	10.6	5.4	--	13.4	6.8	--
0.80	6.9	--	--	8.0	--	--
1.00	6.5	--	--	6.6	--	--
1.25	7.8	--	--	8.0	--	--
1.50	8.7	--	--	8.6	--	--
1.75	8.9	--	--	8.9	--	--
2.00	26.9	--	--	27.3	--	--
2.25	14.5	--	--	15.4	--	--
2.50	--	--	--	--	--	--

Table 14.--Periodical soil water content and soil temperature data for site 5--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>April 7, 1986</u>				<u>April 16, 1986</u>		
0.05	--	15.4	--	--	25.3	--
0.10	--	14.6	--	--	21.1	--
0.15	--	14.6	--	--	17.6	--
0.20	18.0	17.4	--	21.5	20.0	--
0.25	--	--	--	--	--	--
0.30	19.9	17.4	--	21.1	20.7	--
0.40	18.5	17.4	--	19.3	18.6	--
0.50	17.3	17.0	--	17.3	28.0	--
0.60	16.3	15.0	--	16.0	17.0	--
0.80	15.0	--	--	14.3	--	--
1.00	13.2	--	--	13.2	--	--
1.25	10.0	--	--	13.0	--	--
1.50	9.9	--	--	12.6	--	--
1.75	9.8	--	--	11.5	--	--
2.00	28.1	--	--	28.7	--	--
2.25	20.3	--	--	31.1	--	--
2.50	--	--	--	--	--	--
<u>October 7, 1986</u>				<u>October 27, 1986</u>		
0.05	--	12.3	--	--	7.2	--
0.10	--	14.6	--	--	8.8	--
0.15	--	15.2	--	--	12.3	--
0.20	14.8	16.6	--	11.7	14.6	--
0.25	--	--	--	--	--	--
0.30	16.7	16.6	--	14.5	14.6	--
0.40	15.1	16.0	--	13.5	14.2	--
0.50	13.8	16.6	--	12.5	14.6	--
0.60	12.7	13.6	--	11.6	11.8	--
0.80	11.7	--	--	10.5	--	--
1.00	11.3	--	--	10.3	--	--
1.25	12.2	--	--	11.4	--	--
1.50	12.4	--	--	12.1	--	--
1.75	14.6	--	--	14.9	--	--
2.00	36.7	--	--	37.4	--	--
2.25	44.3	--	--	44.8	--	--
2.50	--	--	--	--	--	--

Table 14.--Periodical soil water content and soil temperature data for site 5--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>November 17, 1986</u>				<u>December 4, 1986</u>		
0.05	--	11.2	--	--	6.5	--
0.10	--	8.6	--	--	7.3	--
0.15	--	15.0	--	--	8.2	--
0.20	18.8	15.4	--	18.0	15.0	--
0.25	--	--	--	--	--	--
0.30	17.4	17.0	--	17.6	16.0	--
0.40	15.0	15.0	--	16.0	14.0	--
0.50	13.1	13.8	--	14.0	15.0	--
0.60	11.9	12.4	--	10.7	12.0	--
0.80	10.4	--	--	10.2	--	--
1.00	9.9	--	--	9.9	--	--
1.25	11.0	--	--	11.3	--	--
1.50	12.1	--	--	12.3	--	--
1.75	14.7	--	--	15.0	--	--
2.00	38.1	--	--	38.8	--	--
2.25	45.0	--	--	44.3	--	--
2.50	--	--	--	--	--	--
<u>January 6, 1987</u>				<u>February 9, 1987</u>		
0.05	--	7.3	--	--	--	--
0.10	--	6.5	--	--	--	--
0.15	--	6.5	--	--	--	--
0.20	19.0	7.3	--	19.6	--	--
0.25	--	--	--	--	--	--
0.30	17.8	8.2	--	18.2	--	--
0.40	14.6	8.2	--	15.2	--	--
0.50	12.8	8.2	--	13.3	--	--
0.60	11.0	10.1	--	11.5	--	--
0.80	9.6	--	--	9.7	--	--
1.00	9.5	--	--	9.3	--	--
1.25	10.5	--	--	10.6	--	--
1.50	11.2	--	--	11.1	--	--
1.75	13.5	--	--	13.9	--	--
2.00	34.9	--	--	36.0	--	--
2.25	41.5	--	--	43.3	--	--
2.50	--	--	--	--	--	--

Table 14.--Periodical soil water content and soil temperature data for site 5--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>February 11, 1987</u>				<u>March 4, 1987</u>		
0.05	--	7.9	--	--	--	--
0.10	--	6.9	--	--	--	--
0.15	--	6.4	--	--	--	--
0.20	--	7.3	--	34.8	--	--
0.25	--	--	--	--	--	--
0.30	--	7.7	--	28.3	--	--
0.40	--	7.4	--	19.2	--	--
0.50	--	7.3	--	14.0	--	--
0.60	--	7.7	--	11.4	--	--
0.80	--	--	--	9.7	--	--
1.00	--	--	--	9.2	--	--
1.25	--	--	--	10.5	--	--
1.50	--	--	--	11.2	--	--
1.75	--	--	--	14.2	--	--
2.00	--	--	--	37.5	--	--
2.25	--	--	--	45.3	--	--
2.50	--	--	--	--	--	--
<u>March 5, 1987</u>				<u>March 11, 1987</u>		
0.05	--	10.0	--	--	9.2	--
0.10	--	9.2	--	--	10.3	--
0.15	--	10.1	--	--	14.9	--
0.20	33.5	10.3	--	33.7	15.1	--
0.25	--	--	--	--	--	--
0.30	26.6	8.6	--	26.7	10.8	--
0.40	18.4	8.7	--	18.4	13.4	--
0.50	13.6	13.2	--	14.5	14.0	--
0.60	11.3	11.6	--	12.6	12.4	--
0.80	9.3	--	--	10.0	--	--
1.00	9.1	--	--	9.3	--	--
1.25	10.3	--	--	10.7	--	--
1.50	11.2	--	--	11.7	--	--
1.75	14.2	--	--	15.0	--	--
2.00	36.3	--	--	37.6	--	--
2.25	44.2	--	--	44.8	--	--
2.50	--	--	--	--	--	--

Table 14.--Periodical soil water content and soil temperature data for site 5--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>March 26, 1987</u>				<u>April 1, 1987</u>		
0.05	--	22.3	--	--	17.5	--
0.10	--	20.8	--	--	16.3	--
0.15	--	22.9	--	--	17.1	--
0.20	25.9	22.2	--	23.4	18.8	--
0.25	--	--	--	--	--	--
0.30	24.2	19.9	--	21.1	18.4	--
0.40	20.4	18.9	--	17.2	17.2	--
0.50	18.5	18.9	--	15.6	16.9	--
0.60	16.9	17.0	--	14.4	15.5	--
0.80	15.7	--	--	13.7	--	--
1.00	14.8	--	--	13.3	--	--
1.25	15.1	--	--	14.8	--	--
1.50	15.3	--	--	17.7	--	--
1.75	26.1	--	--	34.6	--	--
2.00	39.3	--	--	40.2	--	--
2.25	43.6	--	--	45.6	--	--
2.50	--	--	--	--	--	--
<u>April 16, 1987</u>						
0.05	--	12.2	--			
0.10	--	13.4	--			
0.15	--	15.2	--			
0.20	14.7	16.6	--			
0.25	--	--	--			
0.30	16.6	15.9	--			
0.40	15.2	15.5	--			
0.50	13.9	14.1	--			
0.60	12.7	14.0	--			
0.80	12.1	--	--			
1.00	12.0	--	--			
1.25	14.8	--	--			
1.50	23.4	--	--			
1.75	38.4	--	--			
2.00	41.8	--	--			
2.25	45.0	--	--			
2.50	--	--	--			

Table 15.--Periodical soil water content data for site 6

[Neutron, neutron scattering method; TDR, time-domain reflectometry method;
--, indicates no data]

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)
	<u>October 2, 1985</u>		<u>October 30, 1985</u>		<u>November 19, 1985</u>	
0.05	--	7.9	--	8.4	--	5.1
0.10	--	11.0	--	7.7	--	6.8
0.15	--	9.1	--	9.7	--	6.1
0.20	7.0	8.2	6.9	8.4	7.3	7.2
0.25	--	--	--	--	--	--
0.30	8.0	7.9	--	7.9	--	7.2
0.40	8.0	7.7	7.8	6.6	8.1	6.8
0.50	7.5	7.3	--	7.2	--	6.8
0.60	7.0	6.6	7.1	5.8	7.4	5.6
0.80	6.5	--	6.5	--	6.6	--
1.00	6.5	--	6.2	--	6.4	--
1.25	7.5	--	7.2	--	7.6	--
1.50	8.5	--	8.3	--	8.5	--
1.75	9.0	--	8.7	--	9.0	--
2.00	16.5	--	16.4	--	16.4	--
2.25	29.0	--	28.5	--	29.1	--
2.50	--	--	--	--	--	--
	<u>December 4, 1985</u>		<u>December 17, 1985</u>		<u>January 8, 1986</u>	
0.05	--	4.8	--	4.8	--	--
0.10	--	5.9	--	5.6	--	--
0.15	--	5.8	--	6.1	--	--
0.20	7.4	5.8	7.7	6.5	8.6	--
0.25	--	--	--	--	--	--
0.30	--	5.9	--	6.5	--	--
0.40	8.1	5.9	8.1	6.1	8.3	--
0.50	--	7.2	--	6.5	--	--
0.60	7.0	5.6	7.1	6.5	7.3	--
0.80	6.4	--	6.5	--	6.5	--
1.00	6.3	--	6.3	--	6.4	--
1.25	7.4	--	7.3	--	7.5	--
1.50	8.5	--	8.4	--	8.6	--
1.75	8.5	--	8.5	--	8.8	--
2.00	15.8	--	16.3	--	16.6	--
2.25	28.3	--	28.4	--	28.9	--
2.50	--	--	--	--	--	--

Table 15.--Periodical soil water content data for site 6--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)
	<u>February 5, 1986</u>			<u>March 4, 1986</u>		<u>March 5, 1986</u>
0.05	--	--	--	24.6	--	22.4
0.10	--	--	--	29.5	--	28.5
0.15	--	--	--	21.7	--	22.4
0.20	11.3	--	11.8	18.4	--	19.9
0.25	--	--	--	--	--	--
0.30	--	--	--	16.4	--	19.5
0.40	8.1	--	8.2	6.1	--	5.6
0.50	--	--	--	6.5	--	6.3
0.60	7.2	--	7.4	5.6	--	5.3
0.80	6.4	--	6.7	--	--	--
1.00	6.3	--	6.4	--	--	--
1.25	7.4	--	7.6	--	--	--
1.50	8.2	--	8.5	--	--	--
1.75	8.5	--	8.7	--	--	--
2.00	15.7	--	16.6	--	--	--
2.25	28.0	--	29.2	--	--	--
2.50	--	--	--	--	--	--
	<u>March 12, 1986</u>			<u>March 13, 1986</u>		<u>March 15, 1986</u>
0.05	--	8.4	--	8.0	--	14.2
0.10	--	8.4	--	9.3	--	14.2
0.15	--	7.9	--	7.5	--	13.0
0.20	12.2	7.5	12.2	8.6	21.4	11.0
0.25	--	--	--	--	--	--
0.30	--	9.0	9.5	9.3	18.4	11.6
0.40	8.4	5.0	8.5	5.8	15.0	7.2
0.50	--	4.1	8.0	5.6	10.5	5.3
0.60	7.3	2.5	7.3	4.3	8.0	4.9
0.80	6.7	--	6.7	--	6.7	--
1.00	6.6	--	6.6	--	6.5	--
1.25	7.7	--	7.7	--	7.5	--
1.50	8.6	--	8.8	--	8.7	--
1.75	8.7	--	8.9	--	8.8	--
2.00	17.2	--	16.9	--	17.1	--
2.25	29.7	--	29.0	--	29.3	--
2.50	--	--	--	--	--	--

Table 15.--Periodical soil water content data for site 6--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)
	<u>March 16, 1986</u>		<u>March 21, 1986</u>		<u>March 22, 1986, at 1009 hours</u>	
0.05	--	14.6	--	9.1	--	11.4
0.10	--	14.6	--	11.0	--	11.6
0.15	--	12.6	--	10.6	--	9.1
0.20	18.6	10.8	19.8	9.1	19.4	10.1
0.25	--	--	--	--	--	--
0.30	16.5	11.6	17.2	12.1	16.9	11.4
0.40	14.4	6.6	14.3	7.3	14.1	7.7
0.50	10.5	5.9	10.4	8.2	10.3	6.6
0.60	7.7	4.9	8.2	7.7	7.8	6.5
0.80	6.4	--	6.7	--	--	--
1.00	6.2	--	6.6	--	--	--
1.25	7.4	--	7.7	--	--	--
1.50	8.3	--	8.7	--	--	--
1.75	8.4	--	8.8	--	--	--
2.00	16.2	--	17.5	--	--	--
2.25	27.8	--	29.8	--	--	--
2.50	--	--	--	--	--	--
	<u>March 22, 1986, at 1259 hours</u>		<u>March 22, 1986, at 1517 hours</u>		<u>March 23, 1986, at 1048 hours</u>	
0.05	--	14.0	--	25.3	--	26.3
0.10	--	11.0	--	12.0	--	13.0
0.15	--	9.1	--	9.3	--	11.0
0.20	19.3	10.1	17.0	10.1	21.7	11.0
0.25	--	--	--	--	--	--
0.30	17.0	11.0	14.1	12.0	17.7	12.0
0.40	14.0	6.5	10.6	7.9	13.8	8.2
0.50	10.3	9.0	10.2	8.2	10.2	8.2
0.60	8.0	6.6	8.2	6.5	7.6	7.0
0.80	--	--	--	--	--	--
1.00	--	--	--	--	--	--
1.25	--	--	--	--	--	--
1.50	--	--	--	--	--	--
1.75	--	--	--	--	--	--
2.00	--	--	--	--	--	--
2.25	--	--	--	--	--	--
2.50	--	--	--	--	--	--

Table 15.--Periodical soil water content data for site 6--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)
	<u>March 24, 1986</u>		<u>March 27, 1986</u>		<u>April 7, 1986</u>	
0.05	--	27.3	--	20.3	--	17.4
0.10	--	15.4	--	24.4	--	18.4
0.15	--	10.6	--	18.0	--	17.6
0.20	24.3	9.5	19.0	12.2	17.7	19.5
0.25	--	--	--	--	--	--
0.30	19.6	12.0	20.6	12.8	20.6	25.3
0.40	14.9	6.5	17.3	6.5	21.2	19.5
0.50	10.5	7.0	13.2	6.8	20.2	19.0
0.60	8.1	5.6	8.9	5.6	18.7	17.0
0.80	6.8	--	6.6	--	15.0	--
1.00	6.6	--	6.4	--	8.1	--
1.25	7.8	--	7.6	--	7.5	--
1.50	8.9	--	8.7	--	8.6	--
1.75	9.0	--	8.8	--	8.8	--
2.00	17.8	--	17.0	--	17.5	--
2.25	30.4	--	29.7	--	30.6	--
2.50	--	--	--	--	--	--
	<u>April 16, 1986</u>		<u>October 7, 1986</u>		<u>October 27, 1986</u>	
0.05	--	25.3	--	14.6	--	8.8
0.10	--	25.3	--	17.4	--	11.4
0.15	--	21.1	--	15.8	--	11.8
0.20	20.2	22.2	14.6	16.6	11.4	14.2
0.25	--	--	--	--	--	--
0.30	21.3	24.4	17.6	19.7	15.5	17.4
0.40	21.0	20.1	17.9	17.4	16.3	16.2
0.50	19.4	18.2	16.7	17.6	15.2	16.2
0.60	18.2	16.6	15.1	15.4	13.7	14.0
0.80	15.5	--	13.2	--	11.9	--
1.00	12.9	--	12.1	--	10.9	--
1.25	8.8	--	13.2	--	12.3	--
1.50	8.5	--	12.8	--	12.0	--
1.75	8.7	--	12.6	--	12.8	--
2.00	18.1	--	28.8	--	36.2	--
2.25	32.5	--	38.9	--	38.9	--
2.50	--	--	--	--	--	--

Table 15.--Periodical soil water content data for site 6--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)
	<u>November 17, 1986</u>		<u>December 4, 1986</u>		<u>January 6, 1987</u>	
0.05	--	6.5	--	6.5	--	6.5
0.10	--	8.2	--	8.2	--	8.2
0.15	--	7.9	--	8.2	--	6.5
0.20	15.7	13.8	16.0	10.1	16.3	8.2
0.25	--	--	--	--	--	--
0.30	16.9	17.8	17.2	18.0	18.0	8.2
0.40	16.7	16.4	16.9	16.0	17.1	8.2
0.50	15.1	15.4	15.8	15.0	16.0	8.2
0.60	13.6	13.2	14.0	13.0	13.1	10.1
0.80	11.4	--	11.6	--	10.1	--
1.00	10.6	--	10.6	--	9.6	--
1.25	11.7	--	11.7	--	11.1	--
1.50	11.8	--	11.9	--	10.9	--
1.75	12.6	--	12.8	--	11.6	--
2.00	29.8	--	30.2	--	28.3	--
2.25	39.8	--	40.1	--	37.6	--
2.50	--	--	--	--	--	--
	<u>February 9, 1987</u>		<u>February 11, 1987</u>		<u>March 4, 1987</u>	
0.05	--	--	--	6.9	--	--
0.10	--	--	--	6.2	--	--
0.15	--	--	--	7.3	--	--
0.20	16.9	--	--	6.8	34.0	--
0.25	--	--	--	--	--	--
0.30	18.9	--	--	7.5	25.0	--
0.40	18.7	--	--	8.4	19.2	--
0.50	16.9	--	--	7.9	16.5	--
0.60	13.8	--	--	7.9	13.3	--
0.80	10.4	--	--	--	10.4	--
1.00	9.58	--	--	--	9.8	--
1.25	11.1	--	--	--	10.9	--
1.50	11.0	--	--	--	11.0	--
1.75	12.0	--	--	--	11.8	--
2.00	29.2	--	--	--	29.0	--
2.25	39.3	--	--	--	38.5	--
2.50	--	--	--	--	--	--

Table 15.--Periodical soil water content data for site 6--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)
	<u>March 5, 1987</u>		<u>March 11, 1987</u>		<u>March 26, 1987</u>	
0.05	--	18.6	--	9.4	--	20.2
0.10	--	20.4	--	13.6	--	23.1
0.15	--	15.6	--	14.4	--	20.5
0.20	33.5	17.1	33.1	17.2	26.1	21.0
0.25	--	--	--	--	--	--
0.30	25.1	28.5	28.6	20.1	25.5	23.4
0.40	19.2	11.9	22.4	17.5	22.4	20.3
0.50	16.0	12.0	18.0	19.1	20.6	20.2
0.60	12.7	13.4	15.0	16.1	19.2	17.9
0.80	10.0	--	11.4	--	17.1	--
1.00	9.5	--	9.8	--	15.7	--
1.25	10.6	--	11.1	--	15.9	--
1.50	10.8	--	11.1	--	15.4	--
1.75	11.5	--	12.2	--	17.6	--
2.00	28.7	--	30.6	--	36.4	--
2.25	38.3	--	39.5	--	38.6	--
2.50	--	--	--	--	--	--
	<u>April 1, 1987</u>		<u>April 16, 1987</u>			
0.05	--	17.1	--	13.0		
0.10	--	14.7	--	15.4		
0.15	--	14.3	--	14.0		
0.20	21.8	17.7	13.8	16.2		
0.25	--	--	--	--		
0.30	21.8	21.1	17.4	19.5		
0.40	20.1	18.7	17.5	17.1		
0.50	18.4	18.7	16.5	17.0		
0.60	17.0	16.6	14.9	14.9		
0.80	15.1	--	13.1	--		
1.00	13.9	--	12.4	--		
1.25	15.2	--	14.3	--		
1.50	15.3	--	16.6	--		
1.75	24.2	--	33.7	--		
2.00	40.5	--	40.7	--		
2.25	39.9	--	40.6	--		
2.50	--	--	--	--		

Table 16.--Periodical soil water content and soil temperature data for site 7

[Neutron, neutron scattering method; TDR, time-domain reflectometry method;
 --, indicates no data]

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>October 2, 1985</u>				<u>October 30, 1985</u>		
0.05	--	7.9	10	--	7.7	-3
0.10	--	7.9	7	--	7.0	-1
0.15	--	7.3	6	--	7.0	1
0.20	6.0	--	6	5.5	--	3
0.25	--	--	6	--	--	4
0.30	7.0	7.0	7	--	6.6	5
0.40	7.5	7.3	8	7.3	8.0	7
0.50	7.5	7.9	8	--	7.7	7
0.60	7.5	7.7	9	7.2	8.0	8
0.80	6.0	--	10	6.1	--	8
1.00	6.0	--	11	5.6	--	8
1.25	6.5	--	11	6.2	--	9
1.50	8.0	--	12	7.6	--	9
1.75	11.5	--	12	10.8	--	9
2.00	25.0	--	12	24.1	--	9
2.25	15.5	--	--	13.6	--	--
2.50	--	--	11	--	--	9
<u>October 31, 1985</u>				<u>November 19, 1985</u>		
0.05	--	16.2	1	--	6.1	-3
0.10	--	7.9	1	--	5.8	-2
0.15	--	6.5	2	--	6.1	-1
0.20	11.5	--	3	11.0	--	-1
0.25	--	--	3	--	--	-1
0.30	--	7.3	4	--	6.6	0
0.40	8.5	8.0	5	9.3	8.4	1
0.50	--	8.0	6	--	7.7	1
0.60	8.2	7.9	7	8.5	7.5	2
0.80	6.9	--	8	7.0	--	3
1.00	5.8	--	8	6.1	--	4
1.25	6.1	--	9	6.5	--	6
1.50	7.6	--	9	8.0	--	7
1.75	10.9	--	9	10.8	--	7
2.00	24.2	--	9	25.4	--	8
2.25	14.7	--	--	13.5	--	--
2.50	--	--	9	--	--	9

Table 16.--Periodical soil water content and soil temperature data for site 7--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>December 4, 1985</u>				<u>December 17, 1985</u>		
0.05	--	5.4	-6	--	--	-9
0.10	--	5.3	-5	--	--	-8
0.15	--	5.1	-5	--	--	-7
0.20	10.9	--	-4	10.9	--	-6
0.25	--	--	-4	--	--	-6
0.30	--	5.6	-3	--	--	-5
0.40	9.3	7.2	-2	9.2	--	-4
0.50	--	7.2	-1	--	--	-4
0.60	8.4	7.2	-1	8.3	--	-3
0.80	7.0	--	0	6.6	--	-2
1.00	5.9	--	2	5.8	--	0
1.25	6.4	--	3	6.3	--	1
1.50	7.8	--	4	7.7	--	2
1.75	10.8	--	5	11.0	--	3
2.00	24.9	--	6	24.4	--	4
2.25	13.8	--	--	15.8	--	--
2.50	--	--	7	--	--	5
<u>January 8, 1986</u>				<u>February 5, 1986</u>		
0.05	--	--	-7	--	--	-4
0.10	--	--	-7	--	--	-4
0.15	--	--	-6	--	--	-4
0.20	11.5	--	-6	11.7	--	-4
0.25	--	--	-6	--	--	-4
0.30	--	--	-6	--	--	-4
0.40	9.6	--	-5	9.2	--	-4
0.50	--	--	-4	--	--	-3
0.60	8.4	--	-4	8.3	--	-1
0.80	6.7	--	-2	6.7	--	-1
1.00	6.1	--	-1	5.8	--	0
1.25	6.5	--	1	6.3	--	1
1.50	7.8	--	1	7.8	--	1
1.75	11.2	--	2	11.5	--	2
2.00	25.2	--	3	24.5	--	2
2.25	14.6	--	--	16.0	--	--
2.50	--	--	5	--	--	4

Table 16.--Periodical soil water content and soil temperature data for site 7--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>March 4, 1986</u>				<u>March 12, 1986</u>		
0.05	--	18.2	0	--	9.3	-1
0.10	--	8.6	0	--	6.8	-1
0.15	--	5.9	0	--	5.4	-1
0.20	12.2	--	0	12.4	--	-1
0.25	--	--	-1	--	--	-1
0.30	--	6.1	-1	--	4.1	-1
0.40	9.6	7.5	-1	9.7	8.6	-1
0.50	--	7.3	-1	--	8.0	-1
0.60	8.5	7.7	-1	8.7	7.9	-1
0.80	6.8	--	-1	7.0	--	0
1.00	6.1	--	0	6.1	--	0
1.25	6.6	--	1	6.7	--	1
1.50	8.1	--	2	8.2	--	2
1.75	12.0	--	2	12.5	--	2
2.00	25.5	--	3	26.4	--	3
2.25	15.5	--	--	16.0	--	--
2.50	--	--	4	--	--	4
<u>March 15, 1986</u>				<u>March 21, 1986</u>		
0.05	--	12.2	-1	--	11.0	--
0.10	--	7.9	-1	--	8.0	--
0.15	--	5.6	-1	--	7.5	--
0.20	17.6	--	-1	24.4	--	--
0.25	--	--	-1	--	--	--
0.30	11.5	5.3	-1	16.9	9.1	--
0.40	10.6	7.9	-1	15.4	10.1	--
0.50	10.1	6.8	-1	13.6	9.0	--
0.60	8.6	6.8	-1	10.3	8.8	--
0.80	6.9	--	-1	6.9	--	--
1.00	5.9	--	0	6.1	--	--
1.25	6.6	--	0	6.8	--	--
1.50	8.3	--	1	8.3	--	--
1.75	12.4	--	1	12.1	--	--
2.00	25.9	--	2	26.0	--	--
2.25	15.9	--	--	--	--	--
2.50	--	--	3	--	--	--

Table 16.--Periodical soil water content and soil temperature data for site 7--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
	<u>March 22, 1986, at 1037 hours</u>			<u>March 22, 1986, at 1315 hours</u>		
0.05	--	12.0	--	--	12.6	--
0.10	--	9.1	--	--	9.1	--
0.15	--	7.9	--	--	7.9	--
0.20	25.5	--	--	24.8	--	--
0.25	--	--	--	--	--	--
0.30	18.6	9.1	--	18.8	8.2	--
0.40	16.3	10.5	--	16.4	10.3	--
0.50	13.9	9.1	--	14.1	9.1	--
0.60	10.3	8.2	--	10.4	8.2	--
0.80	--	--	--	--	--	--
1.00	--	--	--	--	--	--
1.25	--	--	--	--	--	--
1.50	--	--	--	--	--	--
1.75	--	--	--	--	--	--
2.00	--	--	--	--	--	--
2.25	--	--	--	--	--	--
2.50	--	--	--	--	--	--
	<u>March 22, 1986, at 1540 hours</u>			<u>March 23, 1986, at 1104 hours</u>		
0.05	--	25.3	--	--	33.2	--
0.10	--	9.1	--	--	11.0	--
0.15	--	7.3	--	--	8.4	--
0.20	26.2	--	--	24.9	--	--
0.25	--	--	--	--	--	--
0.30	19.2	9.1	--	19.3	9.1	--
0.40	16.8	10.1	--	17.4	12.0	--
0.50	14.0	8.8	--	15.1	9.1	--
0.60	10.4	9.1	--	10.9	9.5	--
0.80	--	--	--	--	--	--
1.00	--	--	--	--	--	--
1.25	--	--	--	--	--	--
1.50	--	--	--	--	--	--
1.75	--	--	--	--	--	--
2.00	--	--	--	--	--	--
2.25	--	--	--	--	--	--
2.50	--	--	--	--	--	--

Table 16.--Periodical soil water content and soil temperature data for site 7--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>March 25, 1986</u>				<u>March 27, 1986</u>		
0.05	--	32.4	3	--	25.9	9
0.10	--	20.3	0	--	17.8	3
0.15	--	8.0	-2	--	9.5	0
0.20	25.1	--	-2	23.6	--	-2
0.25	--	--	-2	--	--	-2
0.30	19.4	8.4	-2	20.7	8.4	-2
0.40	16.9	8.8	-2	20.1	9.3	-2
0.50	14.8	7.0	-2	18.8	6.1	-2
0.60	11.4	7.3	-2	14.9	6.6	-2
0.80	6.9	--	-1	7.3	--	-1
1.00	5.9	--	-1	6.0	--	0
1.25	6.6	--	0	6.6	--	0
1.50	8.0	--	0	8.1	--	1
1.75	12.5	--	1	12.7	--	1
2.00	25.8	--	1	26.4	--	1
2.25	17.8	--	--	22.0	--	--
2.50	--	--	2	--	--	2
<u>April 7, 1986</u>				<u>April 16, 1986</u>		
0.05	--	20.5	14	--	29.7	8
0.10	--	18.0	10	--	25.3	3
0.15	--	16.2	8	--	18.2	2
0.20	18.8	--	6	23.6	--	1
0.25	--	--	5	--	--	1
0.30	19.0	18.0	4	20.3	14.6	1
0.40	19.9	20.7	4	19.9	21.7	1
0.50	21.0	18.8	3	20.1	20.1	2
0.60	19.6	20.5	3	18.9	20.1	2
0.80	14.2	--	3	14.5	--	3
1.00	7.2	--	2	11.6	--	3
1.25	6.8	--	2	9.2	--	3
1.50	8.1	--	2	8.3	--	3
1.75	12.8	--	2	14.2	--	3
2.00	29.0	--	2	32.0	--	3
2.25	40.0	--	--	40.7	--	--
2.50	--	--	2	--	--	3

Table 16.--Periodical soil water content and soil temperature data for site 7--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>October 7, 1986</u>				<u>October 27, 1986</u>		
0.05	--	17.8	17	--	10.1	12
0.10	--	16.4	13	--	9.1	9
0.15	--	16.4	11	--	12.2	8
0.20	14.8	--	10	10.1	--	7
0.25	--	--	10	--	--	7
0.30	16.5	16.4	10	13.3	15.4	7
0.40	17.4	21.1	10	15.1	19.3	8
0.50	18.1	20.1	10	16.1	17.2	8
0.60	17.2	21.1	11	15.6	18.0	8
0.80	13.9	--	11	12.5	--	9
1.00	12.6	--	11	12.0	--	9
1.25	13.4	--	11	13.5	--	10
1.50	14.3	--	12	15.1	--	10
1.75	29.2	--	12	31.5	--	10
2.00	39.8	--	12	40.7	--	10
2.25	42.0	--	--	42.1	--	--
2.50	--	--	11	--	--	11
<u>November 17, 1986</u>				<u>December 4, 1986</u>		
0.05	--	7.3	-3	--	7.3	-1
0.10	--	6.1	-2	--	6.5	-1
0.15	--	8.6	-1	--	9.1	0
0.20	15.7	13.6	-1	16.7	--	0
0.25	--	--	-1	--	--	1
0.30	14.8	13.6	0	16.1	15.0	1
0.40	14.9	17.8	1	16.1	18.0	2
0.50	15.8	17.0	1	16.2	16.0	2
0.60	14.9	18.0	2	15.1	17.0	2
0.80	12.3	--	4	12.5	--	3
1.00	11.7	--	5	11.7	--	4
1.25	13.6	--	6	13.9	--	5
1.50	15.4	--	7	15.4	--	6
1.75	31.7	--	8	32.6	--	7
2.00	41.1	--	8	41.4	--	8
2.25	42.2	--	--	41.8	--	--
2.50	--	--	9	--	--	9

Table 16.--Periodical soil water content and soil temperature data for site 7--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>January 6, 1987</u>				<u>February 9, 1987</u>		
0.05	--	8.2	-3	--	--	2
0.10	--	8.2	-3	--	--	0
0.15	--	7.3	-2	--	--	-1
0.20	15.8	--	-2	16.2	--	-1
0.25	--	--	-2	--	--	-1
0.30	15.2	9.1	-2	15.8	--	-1
0.40	16.3	10.1	-2	17.5	--	-1
0.50	16.6	14.0	-1	18.2	--	0
0.60	14.3	17.0	-1	15.7	--	0
0.80	11.3	--	--	11.8	--	--
1.00	11.1	--	1	11.5	--	1
1.25	12.4	--	2	12.4	--	2
1.50	13.8	--	3	14.1	--	3
1.75	30.2	--	4	30.3	--	3
2.00	38.3	--	4	40.9	--	4
2.25	40.0	--	--	42.5	--	--
2.50	--	--	5	--	--	5
<u>February 11, 1987</u>				<u>March 4, 1987</u>		
0.05	--	7.5	--	--	--	1
0.10	--	7.2	--	--	--	0
0.15	--	6.3	--	--	--	0
0.20	--	6.9	--	32.9	--	0
0.25	--	--	--	--	--	0
0.30	--	7.9	--	26.4	--	0
0.40	--	9.4	--	23.0	--	0
0.50	--	10.0	--	18.6	--	0
0.60	--	10.5	--	15.6	--	--
0.80	--	--	--	11.8	--	2
1.00	--	--	--	11.7	--	2
1.25	--	--	--	12.8	--	3
1.50	--	--	--	14.2	--	3
1.75	--	--	--	30.0	--	4
2.00	--	--	--	41.1	--	--
2.25	--	--	--	42.4	--	--
2.50	--	--	--	--	--	5

Table 16.--Periodical soil water content and soil temperature data for site 7--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>March 5, 1987</u>				<u>March 11, 1987</u>		
0.05	--	14.9	1	--	10.4	1
0.10	--	12.8	0	--	9.7	0
0.15	--	10.2	0	--	14.3	0
0.20	31.7	--	0	31.4	--	0
0.25	--	--	0	--	--	0
0.30	25.7	9.3	0	25.7	11.0	0
0.40	22.1	11.6	0	22.8	17.7	0
0.50	18.0	16.1	0	19.3	17.6	0
0.60	15.3	15.3	--	16.9	17.5	0
0.80	11.6	--	1	13.1	--	--
1.00	11.3	--	2	11.8	--	1
1.25	12.3	--	2	13.0	--	2
1.50	14.4	--	2	15.1	--	2
1.75	29.7	--	3	30.3	--	3
2.00	39.4	--	3	40.4	--	3
2.25	41.2	--	--	42.3	--	--
2.50	--	--	4	--	--	4
<u>March 26, 1987</u>				<u>April 1, 1987</u>		
0.05	--	25.2	2	--	17.3	0
0.10	--	22.5	1	--	13.2	0
0.15	--	23.2	1	--	16.9	0
0.20	26.8	--	0	22.1	--	0
0.25	--	--	0	--	--	0
0.30	24.0	19.1	1	20.0	18.1	0
0.40	22.8	21.6	1	20.2	20.4	0
0.50	22.6	20.6	1	20.4	19.9	0
0.60	21.5	20.2	--	19.3	20.0	0
0.80	17.7	--	2	16.0	--	--
1.00	15.7	--	2	15.1	--	1
1.25	16.2	--	3	17.4	--	2
1.50	24.1	--	3	30.7	--	2
1.75	37.2	--	3	39.1	--	2
2.00	40.1	--	4	40.7	--	3
2.25	41.1	--	--	42.7	--	--
2.50	--	--	4	--	--	4

Table 16.--Periodical soil water content and soil temperature data for site 7--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>April 16, 1987</u>			
0.05	--	15.6	16
0.10	--	15.7	12
0.15	--	16.8	10
0.20	15.7	--	9
0.25	--	--	8
0.30	17.2	17.0	7
0.40	18.4	19.7	7
0.50	19.1	18.4	7
0.60	18.0	18.3	6
0.80	15.1	--	--
1.00	15.2	--	5
1.25	20.9	--	5
1.50	37.8	--	4
1.75	39.6	--	4
2.00	41.9	--	4
2.25	42.7	--	--
2.50	--	--	4

Table 17.--Periodical soil water content data for site 8

[Neutron, neutron scattering method; TDR, time-domain reflectometry method;
 --, indicates no data]

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)
<u>October 2, 1985</u>			<u>October 30, 1985</u>		<u>October 31, 1985</u>	
0.05	--	8.8	--	8.2	--	19.0
0.10	--	10.1	--	8.2	--	13.0
0.15	--	8.4	--	7.7	--	11.0
0.20	--	8.4	8.2	7.7	20.8	16.2
0.25	--	--	--	--	--	--
0.30	--	8.0	--	7.3	--	17.0
0.40	--	7.0	8.2	7.5	23.0	14.0
0.50	--	7.3	--	7.0	--	10.3
0.60	--	6.7	7.2	7.0	15.5	7.3
0.80	--	--	6.5	--	7.1	--
1.00	--	--	6.4	--	6.4	--
1.25	--	--	6.5	--	6.5	--
1.50	--	--	7.5	--	7.6	--
1.75	--	--	12.9	--	12.4	--
2.00	--	--	29.0	--	28.3	--
2.25	--	--	12.3	--	12.0	--
2.50	--	--	--	--	--	--
<u>November 19, 1985</u>			<u>December 4, 1985</u>		<u>December 17, 1985</u>	
0.05	--	7.0	--	7.0	--	--
0.10	--	8.2	--	7.5	--	--
0.15	--	7.9	--	7.3	--	--
0.20	16.7	13.6	18.5	9.5	18.8	--
0.25	--	--	--	--	--	--
0.30	--	18.4	--	12.8	--	--
0.40	16.7	14.8	16.6	13.2	19.5	--
0.50	--	13.0	--	12.2	--	--
0.60	15.0	9.7	13.2	10.5	12.8	--
0.80	11.1	--	10.0	--	10.0	--
1.00	7.3	--	7.4	--	7.2	--
1.25	6.8	--	6.7	--	6.6	--
1.50	7.9	--	7.6	--	7.6	--
1.75	12.6	--	12.3	--	12.0	--
2.00	29.9	--	29.2	--	29.3	--
2.25	12.0	--	11.9	--	13.2	--
2.50	--	--	--	--	--	--

Table 17.--Periodical soil water content data for site 8--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)
	<u>January 8, 1986</u>		<u>February 5, 1986</u>		<u>March 4, 1986</u>	
0.05	--	--	--	--	--	14.6
0.10	--	--	--	--	--	9.5
0.15	--	--	--	--	--	7.7
0.20	19.9	--	20.1	--	21.8	9.7
0.25	--	--	--	--	--	--
0.30	--	--	--	--	--	10.3
0.40	18.6	--	17.4	--	17.6	8.2
0.50	--	--	--	--	--	8.2
0.60	13.5	--	13.1	--	13.5	8.2
0.80	9.7	--	9.4	--	9.5	--
1.00	7.3	--	7.1	--	7.2	--
1.25	6.8	--	6.6	--	6.8	--
1.50	7.6	--	7.5	--	7.9	--
1.75	12.8	--	12.9	--	13.4	--
2.00	29.1	--	28.6	--	29.5	--
2.25	13.2	--	14.3	--	14.9	--
2.50	--	--	--	--	--	--
	<u>March 12, 1986</u>		<u>March 15, 1986</u>		<u>March 21, 1986, at 1620 hours</u>	
0.05	--	10.6	--	15.0	--	11.0
0.10	--	9.7	--	11.6	--	10.6
0.15	--	7.7	--	9.0	--	9.9
0.20	22.1	9.1	23.4	10.1	34.5	12.0
0.25	--	--	--	--	--	--
0.30	--	9.3	23.3	11.0	28.1	14.4
0.40	18.3	8.9	18.0	9.7	19.5	12.0
0.50	--	8.4	15.0	8.6	15.3	11.4
0.60	13.5	7.7	13.4	9.0	13.6	10.3
0.80	9.6	--	9.6	--	9.6	--
1.00	7.4	--	7.3	--	7.6	--
1.25	6.8	--	6.8	--	6.9	--
1.50	8.0	--	7.9	--	7.9	--
1.75	13.5	--	14.0	--	14.1	--
2.00	30.3	--	29.8	--	30.6	--
2.25	15.4	--	15.0	--	15.4	--
2.50	--	--	--	--	--	--

Table 17.--Periodical soil water content data for site 8--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)
	<u>March 21, 1986, at 1735 hours</u>		<u>March 22, 1986, at 1103 hours</u>		<u>March 22, 1986, at 1332 hours</u>	
0.05	--	11.0	--	13.0	--	12.0
0.10	--	10.6	--	11.4	--	13.0
0.15	--	9.1	--	11.0	--	10.1
0.20	33.0	12.0	33.4	11.2	33.3	12.0
0.25	--	--	--	--	--	--
0.30	26.8	14.6	26.8	14.0	27.3	14.2
0.40	18.9	12.8	19.0	11.2	19.0	13.0
0.50	14.9	10.6	15.0	12.0	15.0	12.2
0.60	13.1	10.6	13.4	10.1	13.4	12.0
0.80	--	--	--	--	--	--
1.00	--	--	--	--	--	--
1.25	--	--	--	--	--	--
1.50	--	--	--	--	--	--
1.75	--	--	--	--	--	--
2.00	--	--	--	--	--	--
2.25	--	--	--	--	--	--
2.50	--	--	--	--	--	--
	<u>March 22, 1986, at 1522 hours</u>		<u>March 22, 1986, at 1651 hours</u>		<u>March 22, 1986, at 1741 hours</u>	
0.05	--	12.0	--	13.2	--	12.6
0.10	--	12.0	--	10.6	--	11.8
0.15	--	10.1	--	10.5	--	10.3
0.20	33.6	12.8	33.1	13.0	33.6	12.8
0.25	--	--	--	--	--	--
0.30	26.8	13.6	26.8	15.0	28.3	14.0
0.40	19.0	12.4	19.0	12.2	19.3	12.0
0.50	15.0	12.4	14.9	12.4	15.1	11.0
0.60	13.4	11.4	13.5	12.2	13.3	10.1
0.80	--	--	--	--	--	--
1.00	--	--	--	--	--	--
1.25	--	--	--	--	--	--
1.50	--	--	--	--	--	--
1.75	--	--	--	--	--	--
2.00	--	--	--	--	--	--
2.25	--	--	--	--	--	--
2.50	--	--	--	--	--	--

Table 17.--Periodical soil water content data for site 8--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)
	<u>March 23, 1986, at 1121 hours</u>		<u>March 23, 1986, at 1250 hours</u>		<u>March 25, 1986</u>	
0.05	--	14.0	--	13.8	--	20.5
0.10	--	12.0	--	13.6	--	10.6
0.15	--	11.0	--	11.0	--	9.5
0.20	32.1	12.2	32.4	13.0	32.4	11.0
0.25	--	--	--	--	--	--
0.30	27.0	15.0	28.0	15.0	26.0	13.2
0.40	18.5	13.0	18.8	13.4	18.6	11.6
0.50	14.8	13.0	14.7	13.8	14.7	12.4
0.60	13.0	11.4	13.1	12.0	13.2	9.9
0.80	9.5	--	--	--	9.6	--
1.00	7.4	--	--	--	7.8	--
1.25	6.7	--	--	--	6.9	--
1.50	7.8	--	--	--	7.9	--
1.75	14.0	--	--	--	14.2	--
2.00	29.8	--	--	--	30.1	--
2.25	15.7	--	--	--	19.0	--
2.50	--	--	--	--	--	--
	<u>March 27, 1986</u>		<u>April 7, 1986</u>		<u>April 16, 1986</u>	
0.05	--	29.3	--	17.8	--	26.5
0.10	--	18.2	--	17.8	--	26.3
0.15	--	9.9	--	16.6	--	21.1
0.20	32.2	11.8	18.6	22.6	24.0	23.2
0.25	--	--	--	--	--	--
0.30	26.9	13.6	21.9	24.2	24.0	26.3
0.40	18.8	12.6	21.1	21.5	21.1	22.2
0.50	14.6	12.4	20.3	19.0	19.1	20.5
0.60	13.1	9.7	19.1	20.3	18.0	20.1
0.80	10.0	--	16.3	--	14.6	--
1.00	8.4	--	16.6	--	15.0	--
1.25	7.1	--	12.9	--	12.0	--
1.50	7.9	--	9.6	--	11.8	--
1.75	14.4	--	14.6	--	17.8	--
2.00	30.2	--	32.9	--	34.0	--
2.25	25.7	--	40.7	--	40.7	--
2.50	--	--	--	--	--	--

Table 17.--Periodical soil water content data for site 8--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)
	<u>October 7, 1986</u>		<u>October 27, 1986</u>		<u>November 17, 1986</u>	
0.05	--	17.0	--	11.6	--	8.6
0.10	--	18.2	--	12.0	--	9.9
0.15	--	16.6	--	13.4	--	14.4
0.20	15.4	15.0	12.0	16.6	17.9	17.0
0.25	--	--	--	--	--	--
0.30	18.3	22.4	15.7	19.0	18.4	20.5
0.40	17.5	19.0	15.7	17.6	16.7	18.2
0.50	16.4	17.6	14.8	15.4	15.3	15.8
0.60	15.7	18.0	14.6	17.0	14.6	16.6
0.80	13.0	--	12.3	--	12.2	--
1.00	13.8	--	13.1	--	13.1	--
1.25	11.2	--	10.6	--	10.9	--
1.50	12.9	--	13.4	--	13.8	--
1.75	32.5	--	33.8	--	34.1	--
2.00	42.3	--	42.8	--	42.9	--
2.25	43.3	--	43.5	--	43.7	--
2.50	--	--	--	--	--	--
	<u>December 4, 1986</u>		<u>January 6, 1987</u>		<u>February 9, 1987</u>	
0.05	--	8.2	--	8.2	--	--
0.10	--	8.2	--	8.2	--	--
0.15	--	13.0	--	8.2	--	--
0.20	16.7	17.0	17.1	8.2	17.8	--
0.25	--	--	--	--	--	--
0.30	18.4	20.1	18.9	10.1	19.1	--
0.40	17.6	17.0	17.2	10.1	18.0	--
0.50	16.2	15.0	15.2	14.0	16.2	--
0.60	14.8	15.0	13.6	14.0	14.2	--
0.80	12.5	--	11.4	--	11.3	--
1.00	13.3	--	12.4	--	12.4	--
1.25	11.0	--	10.2	--	10.0	--
1.50	14.2	--	12.3	--	12.2	--
1.75	35.5	--	32.0	--	32.9	--
2.00	43.6	--	40.5	--	41.5	--
2.25	44.5	--	41.8	--	42.7	--
2.50	--	--	--	--	--	--

Table 17.--Periodical soil water content data for site 8--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)
	<u>February 11, 1987</u>		<u>March 4, 1987</u>		<u>March 5, 1987</u>	
0.05	--	7.7	--	--	--	11.4
0.10	--	7.8	--	--	--	11.6
0.15	--	7.4	--	--	--	10.3
0.20	--	8.7	36.3	--	35.0	11.2
0.25	--	--	--	--	--	--
0.30	--	9.6	31.9	--	30.1	11.8
0.40	--	8.7	23.9	--	23.7	12.9
0.50	--	8.7	19.3	--	18.9	14.6
0.60	--	11.9	17.7	--	17.4	14.2
0.80	--	--	14.1	--	13.8	--
1.00	--	--	13.6	--	13.3	--
1.25	--	--	10.6	--	10.4	--
1.50	--	--	12.7	--	12.5	--
1.75	--	--	33.6	--	33.1	--
2.00	--	--	42.3	--	40.9	--
2.25	--	--	43.7	--	42.4	--
2.50	--	--	--	--	--	--
	<u>March 11, 1987</u>		<u>March 26, 1987</u>		<u>April 1, 1987</u>	
0.05	--	10.0	--	25.6	--	16.4
0.10	--	13.4	--	26.0	--	14.9
0.15	--	14.0	--	21.7	--	16.9
0.20	33.3	14.8	25.3	24.9	23.1	20.4
0.25	--	--	--	--	--	--
0.30	27.7	16.7	24.9	24.6	22.4	22.6
0.40	21.8	18.2	23.2	21.7	20.1	19.7
0.50	19.2	16.9	21.4	20.5	18.5	19.0
0.60	18.1	16.6	20.2	20.2	17.7	18.7
0.80	15.2	--	17.2	--	15.3	--
1.00	15.4	--	17.5	--	16.7	--
1.25	12.1	--	14.8	--	15.6	--
1.50	13.9	--	24.1	--	33.6	--
1.75	33.9	--	38.4	--	40.5	--
2.00	42.3	--	40.8	--	42.3	--
2.25	43.5	--	42.5	--	43.5	--
2.50	--	--	--	--	--	--

Table 17.--Periodical soil water content data for site 8--Continued

Depth (meters)	Soil water content neutron	Soil water content TDR
	(percent volume)	(percent volume)
<u>April 16, 1987</u>		
0.05	--	15.5
0.10	--	16.8
0.15	--	16.0
0.20	16.0	18.9
0.25	--	--
0.30	18.8	20.8
0.40	18.0	18.0
0.50	16.9	17.4
0.60	16.4	17.5
0.80	14.9	--
1.00	17.2	--
1.25	20.5	--
1.50	40.3	--
1.75	41.5	--
2.00	43.1	--
2.25	44.6	--
2.50	--	--

Table 18.--Periodical soil water content and soil temperature data for site 9

[Neutron, neutron scattering method; TDR, time-domain reflectometry method;
--, indicates no data]

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>October 2, 1985</u>				<u>October 30, 1985</u>		
0.05	--	11.0	14	--	9.9	-3
0.10	--	13.0	10	--	11.8	-1
0.15	--	12.6	8	--	11.8	1
0.20	8.0	11.6	7	7.4	10.1	2
0.25	--	--	7	--	--	3
0.30	9.5	10.1	7	--	9.5	5
0.40	9.1	8.4	7	9.0	8.2	6
0.50	8.5	7.9	8	--	8.2	7
0.60	8.0	8.6	9	8.3	8.2	7
0.80	7.0	--	10	7.0	--	8
1.00	7.0	--	10	6.6	--	8
1.25	6.5	--	11	6.7	--	8
1.50	8.0	--	11	7.8	--	9
1.75	12.5	--	12	11.9	--	9
2.00	32.0	--	12	31.2	--	9
2.25	14.5	--	--	13.4	--	--
2.50	--	--	11	--	--	9
<u>October 31, 1985</u>				<u>November 19, 1985</u>		
0.05	--	24.8	1	--	6.5	-3
0.10	--	21.1	1	--	7.9	-2
0.15	--	18.0	2	--	8.4	-2
0.20	15.7	17.8	2	15.6	11.4	-1
0.25	--	--	3	--	--	-1
0.30	--	16.0	4	--	17.4	-1
0.40	18.5	8.2	5	17.9	15.2	0
0.50	--	6.8	6	--	10.5	1
0.60	9.7	8.2	7	14.8	8.4	1
0.80	7.0	--	8	8.7	--	2
1.00	6.6	--	8	6.9	--	4
1.25	6.7	--	9	7.0	--	5
1.50	7.8	--	9	8.2	--	6
1.75	11.8	--	9	11.4	--	7
2.00	31.2	--	9	32.6	--	8
2.25	12.7	--	--	13.3	--	--
2.50	--	--	10	--	--	9

Table 18.--Periodical soil water content and soil temperature data for site 9--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>December 4, 1985</u>				<u>December 17, 1985</u>		
0.05	--	5.6	-5	--	--	-7
0.10	--	7.0	-4	--	--	-6
0.15	--	7.5	-4	--	--	-6
0.20	16.6	7.5	-4	17.3	--	-6
0.25	--	--	-3	--	--	-5
0.30	--	9.1	-3	--	--	-5
0.40	19.0	10.1	-2	19.6	--	-4
0.50	--	10.5	-1	--	--	-4
0.60	13.0	8.0	0	13.0	--	-3
0.80	8.3	--	1	8.3	--	-1
1.00	6.6	--	2	6.8	--	0
1.25	6.6	--	3	6.8	--	1
1.50	8.0	--	5	7.9	--	2
1.75	11.3	--	6	11.4	--	3
2.00	31.7	--	6	31.1	--	4
2.25	13.4	--	--	13.5	--	--
2.50	--	--	7	--	--	5
<u>January 8, 1986</u>				<u>February 5, 1986</u>		
0.05	--	--	-9	--	--	-5
0.10	--	--	-9	--	--	-5
0.15	--	--	-9	--	--	-5
0.20	18.0	--	-9	18.0	--	-5
0.25	--	--	-8	--	--	-5
0.30	--	--	-8	--	--	-5
0.40	19.9	--	-7	18.8	--	-4
0.50	--	--	-6	--	--	-4
0.60	13.0	--	-5	12.8	--	-4
0.80	8.3	--	-3	8.1	--	-3
1.00	6.9	--	-1	6.7	--	-2
1.25	6.8	--	0	6.8	--	-1
1.50	8.2	--	2	8.1	--	0
1.75	12.3	--	3	12.2	--	1
2.00	32.0	--	3	30.4	--	2
2.25	14.1	--	--	14.5	--	--
2.50	--	--	5	--	--	4

Table 18.--Periodical soil water content and soil temperature data for site 9--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>March 4, 1986</u>				<u>March 12, 1986</u>		
0.05	--	8.2	0	--	6.6	-1
0.10	--	9.1	0	--	8.4	-1
0.15	--	9.5	0	--	9.3	-1
0.20	19.3	8.4	-1	19.7	7.9	-1
0.25	--	--	-1	--	--	-1
0.30	--	9.1	-1	--	8.4	-1
0.40	19.1	9.0	-1	19.5	8.8	-1
0.50	--	6.8	-1	--	8.4	-1
0.60	13.1	7.9	-1	12.9	9.5	-1
0.80	8.5	--	-1	8.6	--	-1
1.00	6.9	--	-1	7.1	--	0
1.25	7.1	--	0	6.9	--	0
1.50	8.4	--	1	8.4	--	1
1.75	13.0	--	2	13.0	--	2
2.00	32.0	--	2	32.6	--	2
2.25	14.8	--	--	15.4	--	--
2.50	--	--	4	--	--	3
<u>March 15, 1986</u>				<u>March 21, 1986, at 1641 hours</u>		
0.05	--	26.7	1	--	11.0	--
0.10	--	28.1	-1	--	11.6	--
0.15	--	25.7	-1	--	12.0	--
0.20	25.0	23.6	-1	32.6	18.0	--
0.25	--	--	-1	--	--	--
0.30	24.1	16.4	-1	31.5	21.1	--
0.40	19.4	13.2	-1	23.7	19.7	--
0.50	15.3	9.1	-1	17.1	16.0	--
0.60	13.0	9.1	-1	13.8	14.0	--
0.80	8.6	--	-1	8.5	--	--
1.00	7.1	--	-1	6.9	--	--
1.25	6.9	--	0	6.9	--	--
1.50	8.4	--	1	8.4	--	--
1.75	13.1	--	1	13.1	--	--
2.00	32.4	--	2	32.3	--	--
2.25	15.3	--	--	15.2	--	--
2.50	--	--	3	--	--	--

Table 18.--Periodical soil water content and soil temperature data for site 9--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
March 22, 1986, at 1121 hours				March 22, 1986, at 1347 hours		
0.05	--	14.2	--	--	23.2	--
0.10	--	12.2	--	--	13.0	--
0.15	--	13.0	--	--	13.0	--
0.20	32.0	17.0	--	32.2	17.0	--
0.25	--	--	--	--	--	--
0.30	31.0	20.1	--	31.1	20.1	--
0.40	23.7	19.0	--	23.5	19.0	--
0.50	17.1	16.6	--	17.2	17.0	--
0.60	13.8	14.0	--	13.7	13.6	--
0.80	--	--	--	--	--	--
1.00	--	--	--	--	--	--
1.25	--	--	--	--	--	--
1.50	--	--	--	--	--	--
1.75	--	--	--	--	--	--
2.00	--	--	--	--	--	--
2.25	--	--	--	--	--	--
2.50	--	--	--	--	--	--
March 22, 1986, at 1610 hours				March 23, 1986, at 1142 hours		
0.05	--	34.1	--	--	33.6	--
0.10	--	12.0	--	--	18.0	--
0.15	--	12.6	--	--	14.0	--
0.20	32.6	16.0	--	31.2	16.0	--
0.25	--	--	--	--	--	--
0.30	30.8	19.9	--	30.6	20.7	--
0.40	23.2	18.0	--	23.2	18.0	--
0.50	17.2	16.0	--	16.6	16.0	--
0.60	13.9	13.0	--	13.5	14.0	--
0.80	--	--	--	--	--	--
1.00	--	--	--	--	--	--
1.25	--	--	--	--	--	--
1.50	--	--	--	--	--	--
1.75	--	--	--	--	--	--
2.00	--	--	--	--	--	--
2.25	--	--	--	--	--	--
2.50	--	--	--	--	--	--

Table 18.--Periodical soil water content and soil temperature data for site 9--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>March 25, 1986</u>				<u>March 27, 1986</u>		
0.05	--	29.5	4	--	24.8	10
0.10	--	32.4	2	--	27.3	6
0.15	--	17.8	1	--	27.9	3
0.20	31.3	15.6	0	29.1	28.5	2
0.25	--	--	-2	--	--	0
0.30	31.1	18.4	-2	31.0	20.5	-1
0.40	23.4	17.4	-2	23.4	19.5	-2
0.50	17.1	15.8	-2	16.9	14.2	-2
0.60	13.8	14.6	-2	14.3	13.4	-2
0.80	8.5	--	-1	8.5	--	-1
1.00	6.9	--	-1	6.9	--	-1
1.25	7.0	--	0	7.0	--	0
1.50	8.4	--	0	8.4	--	0
1.75	13.7	--	1	13.7	--	1
2.00	32.9	--	1	32.9	--	1
2.25	16.8	--	--	19.2	--	--
2.50	--	--	2	--	--	2
<u>April 7, 1986</u>				<u>April 16, 1986</u>		
0.05	--	16.8	14	--	28.9	5
0.10	--	20.1	12	--	25.5	3
0.15	--	20.1	10	--	25.5	2
0.20	18.2	21.5	8	21.1	25.5	2
0.25	--	--	6	--	--	1
0.30	22.6	25.3	5	23.9	27.3	1
0.40	23.5	23.6	4	23.6	27.9	2
0.50	21.6	20.3	4	21.0	26.3	2
0.60	21.1	21.1	3	19.6	21.1	3
0.80	17.4	--	3	15.8	--	3
1.00	15.7	--	2	14.3	--	6
1.25	11.9	--	2	12.8	--	4
1.50	8.5	--	2	12.1	--	4
1.75	13.7	--	2	13.3	--	4
2.00	34.8	--	2	35.2	--	3
2.25	36.9	--	--	40.0	--	--
2.50	--	--	2	--	--	3

Table 18.--Periodical soil water content and soil temperature data for site 9--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>October 7, 1986</u>				<u>October 27, 1986</u>		
0.05	--	17.0	--	--	10.3	11
0.10	--	17.4	--	--	12.4	9
0.15	--	17.6	--	--	14.0	8
0.20	14.6	18.2	--	10.3	15.2	8
0.25	--	--	--	--	--	7
0.30	18.8	21.8	--	16.1	20.3	7
0.40	19.4	21.1	--	17.6	18.8	8
0.50	18.1	17.4	--	16.6	16.4	8
0.60	17.1	20.3	--	15.8	8.0	8
0.80	13.7	--	--	12.4	--	9
1.00	12.5	--	--	11.6	--	10
1.25	11.4	--	--	10.9	--	10
1.50	12.8	--	--	12.9	--	10
1.75	27.0	--	--	27.9	--	10
2.00	40.9	--	--	41.5	--	11
2.25	41.4	--	--	42.0	--	--
2.50	--	--	--	--	--	11
<u>November 17, 1986</u>				<u>December 4, 1986</u>		
0.05	--	8.0	-3	--	9.1	-2
0.10	--	9.5	-2	--	10.1	-1
0.15	--	7.0	-2	--	14.0	-1
0.20	16.4	17.0	-2	16.9	17.0	0
0.25	--	--	-1	--	--	0
0.30	18.1	20.5	-1	18.7	20.1	1
0.40	18.2	18.0	0	18.9	18.0	1
0.50	16.8	16.6	1	17.2	15.0	2
0.60	15.5	18.2	1	16.0	17.0	2
0.80	12.3	--	3	12.5	--	2
1.00	11.2	--	4	11.3	--	2
1.25	10.8	--	5	10.8	--	3
1.50	13.0	--	6	13.2	--	5
1.75	29.0	--	7	29.2	--	5
2.00	41.6	--	8	41.7	--	6
2.25	42.4	--	--	41.7	--	--
2.50	--	--	9	--	--	7

Table 18.--Periodical soil water content and soil temperature data for site 9--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>January 6, 1987</u>				<u>February 9, 1987</u>		
0.05	--	9.1	-2	--	--	1
0.10	--	8.2	-2	--	--	0
0.15	--	8.2	-1	--	--	-1
0.20	16.8	9.1	-1	17.0	--	-1
0.25	--	--	-1	--	--	-1
0.30	19.2	10.1	-1	20.2	--	-1
0.40	19.8	10.1	-1	20.0	--	-1
0.50	18.2	10.1	-1	18.9	--	0
0.60	15.4	16.0	-1	16.8	--	0
0.80	11.5	--	0	11.2	--	0
1.00	10.8	--	1	10.8	--	1
1.25	10.1	--	2	10.0	--	2
1.50	11.9	--	3	12.1	--	3
1.75	26.9	--	4	26.5	--	4
2.00	39.1	--	5	40.4	--	4
2.25	39.8	--	--	41.8	--	--
2.50	--	--	6	--	--	5
<u>February 11, 1987</u>				<u>March 4, 1987</u>		
0.05	--	8.3	--	--	--	0
0.10	--	7.7	--	--	--	0
0.15	--	7.9	--	--	--	0
0.20	--	8.2	--	31.1	--	0
0.25	--	--	--	--	--	0
0.30	--	9.5	--	31.9	--	0
0.40	--	8.9	--	28.5	--	0
0.50	--	8.8	--	21.2	--	0
0.60	--	10.2	--	18.2	--	0
0.80	--	--	--	13.3	--	0
1.00	--	--	--	11.1	--	1
1.25	--	--	--	9.9	--	2
1.50	--	--	--	12.4	--	3
1.75	--	--	--	27.2	--	3
2.00	--	--	--	40.8	--	3
2.25	--	--	--	41.8	--	--
2.50	--	--	--	--	--	4

Table 18.--Periodical soil water content and soil temperature data for site 9--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>March 5, 1987</u>				<u>March 11, 1987</u>		
0.05	--	12.1	0	--	11.3	0
0.10	--	11.0	0	--	15.0	-1
0.15	--	11.0	0	--	16.0	-1
0.20	32.7	10.8	0	32.5	15.5	-1
0.25	--	--	0	--	--	-1
0.30	32.3	11.8	0	32.0	15.5	-1
0.40	27.7	11.5	0	25.4	18.8	-1
0.50	21.3	14.9	0	21.0	16.2	0
0.60	19.1	15.7	0	19.4	17.8	0
0.80	13.9	--	1	14.9	--	0
1.00	11.3	--	2	12.5	--	1
1.25	9.9	--	2	10.6	--	2
1.50	12.2	--	3	12.8	--	2
1.75	27.1	--	3	28.5	--	3
2.00	40.4	--	4	40.9	--	3
2.25	40.7	--	--	42.1	--	--
2.50	--	--	4	--	--	4
<u>March 26, 1987</u>				<u>April 1, 1987</u>		
0.05	--	25.1	2	--	18.7	0
0.10	--	23.3	1	--	17.3	0
0.15	--	22.5	0	--	18.5	0
0.20	25.4	22.4	0	19.8	18.6	0
0.25	--	--	0	--	--	0
0.30	26.9	24.4	0	21.7	22.9	0
0.40	25.3	22.4	0	22.0	20.6	0
0.50	23.4	20.0	0	20.3	18.5	0
0.60	22.2	21.2	0	18.9	19.9	1
0.80	17.9	--	1	15.6	--	1
1.00	16.2	--	1	14.4	--	1
1.25	14.9	--	2	14.4	--	2
1.50	20.4	--	2	28.3	--	2
1.75	36.4	--	3	38.6	--	3
2.00	39.9	--	3	41.5	--	3
2.25	40.6	--	--	42.5	--	--
2.50	--	--	4	--	--	4

Table 18.--Periodical soil water content and soil temperature data for site 9--Continued

Depth (meters)	Soil water content neutron (percent volume)	Soil water content TDR (percent volume)	Soil temperature (degrees Celsius)
<u>April 16, 1987</u>			
0.05	--	14.7	16
0.10	--	16.1	13
0.15	--	16.6	11
0.20	14.7	16.6	10
0.25	--	--	9
0.30	18.9	20.8	8
0.40	19.5	18.5	7
0.50	18.3	16.4	7
0.60	17.3	--	7
0.80	14.3	--	6
1.00	14.5	--	5
1.25	16.9	--	5
1.50	36.5	--	5
1.75	39.1	--	4
2.00	42.3	--	4
2.25	43.1	--	--
2.50	--	--	5

Table 19.--Daily mean recorded soil temperature data (degrees Celsius), for site 2

[--, indicates no data]

Depth 0.05 meter														
Period: October 1985-April 1986								Period: October 1986-April 1987						
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	9.5	3.2	-1.6	-4.6	-4.9	-2.7	5.7	--	1.1	-0.8	--	-1.0	-0.3	0.1
2	7.0	2.6	-4.1	-4.2	-4.0	-2.0	5.9	--	1.9	-.5	--	-.1	-.5	.1
3	7.3	4.3	-2.0	-4.2	-3.4	-1.0	4.3	--	3.5	--	-3.3	-1.3	-.4	1.5
4	8.0	3.7	-1.4	-4.5	-3.0	-.1	3.4	--	1.5	--	-2.0	-2.6	.2	2.9
5	5.3	--	-1.4	-5.0	-2.8	-.6	4.7	9.9	4.7	--	-1.3	-.8	.5	4.1
6	7.1	--	-1.6	-6.6	-2.9	-1.0	8.9	9.7	4.7	--	-1.3	-.9	1.5	5.6
7	5.9	--	-1.5	-7.3	-3.0	-3.0	8.4	13.7	3.0	--	--	-.1	1.7	7.4
8	2.6	--	-1.2	-3.7	-4.1	-2.9	6.8	8.9	.9	--	-3.8	-1.3	-.5	9.0
9	1.7	--	-1.0	-2.9	-5.4	-1.0	7.7	7.7	-.3	--	-4.6	-.6	-1.2	8.0
10	3.1	--	-1.3	-3.6	-6.4	-.2	10.3	8.7	--	--	-4.5	-.8	-.9	5.5
11	5.6	--	-2.4	-2.0	-7.1	-.2	10.6	6.0	-1.4	--	-2.9	-1.0	-.2	6.9
12	8.3	--	-2.5	-.8	-7.5	0	3.5	3.8	--	--	-.1	0	-1.0	7.2
13	7.7	--	-3.6	-3.3	-7.1	-.1	1.1	3.0	-3.5	--	-.7	-.6	-.2	7.0
14	5.6	-1.8	-3.0	-3.8	-7.1	0	1.1	4.2	-1.9	--	-.8	-2.2	.2	7.7
15	4.4	-2.0	-2.5	-4.4	-7.0	0	.7	6.5	-1.6	--	-5.4	-2.1	0	9.5
16	4.8	-.5	-3.0	-3.5	-6.3	.1	2.4	8.1	-.8	--	-7.3	-1.7	0	11.0
17	7.5	-1.7	-3.3	-2.6	-5.3	.1	5.5	8.2	-2.0	--	-6.7	-1.4	0	13.2
18	8.9	-3.7	-4.3	-2.3	-5.2	.1	6.6	9.5	-1.4	--	-6.6	-2.1	.1	--
19	6.8	-1.6	-3.5	-2.3	-5.5	-1.0	6.6	10.5	--	--	-5.2	-1.2	.2	--
20	7.6	-2.1	-4.7	-1.9	-5.9	-.7	4.7	9.4	--	--	-4.8	-.9	1.1	--
21	9.3	-3.0	-3.4	-2.3	-6.0	-.2	5.3	9.7	-.7	--	-3.6	-.7	1.2	--
22	12.3	-1.3	-1.2	-5.1	-5.5	.5	9.7	11.2	-.3	--	-5.7	-.8	1.3	--
23	10.4	-1.2	-1.0	-6.7	-5.3	.3	15.3	8.6	-1.6	--	-7.3	-1.0	1.1	--
24	7.9	-1.4	-4.7	-4.7	-5.2	1.3	12.4	7.4	-.2	--	-7.1	-.8	.1	--
25	9.1	-1.0	-7.1	-4.0	-4.7	3.2	6.7	8.1	--	--	-7.1	-.1	.2	--
26	7.5	-1.2	-3.3	-5.3	-3.7	1.2	5.5	7.1	--	--	-5.1	0	1.0	--
27	4.9	-1.7	-4.5	-7.3	-3.0	4.5	4.0	8.0	0	-2.9	-4.2	-.2	-.2	--
28	10.4	-1.6	-5.5	-6.3	-2.9	7.8	7.8	8.5	.2	-3.5	-2.8	0	-.9	--
29	7.7	-1.6	-5.9	-6.5	--	9.3	9.8	5.5	-.1	-2.9	-1.3	--	-1.3	--
30	2.0	-1.2	-4.6	-6.3	--	7.0	10.2	7.1	-.5	-3.4	-1.2	--	-.8	--
31	3.9	--	-5.3	-5.5	--	7.4	--	5.7	--	--	-1.4	--	1.0	--

Table 19.--Daily mean recorded soil temperature data (degrees Celsius), for site 2--Continued

Depth 0.10 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	8.6	3.9	-0.9	-4.1	-4.7	-2.7	4.7	--	2.5	-0.5	--	-1.2	-0.3	0.1
2	7.0	2.9	-2.3	-3.8	-4.0	-2.1	5.2	--	2.6	-.3	--	-.3	-.4	0
3	7.6	4.6	-1.4	-3.7	-3.4	-1.2	4.3	--	4.1	--	-3.2	-1.3	-.3	.6
4	8.3	3.4	-.9	-3.9	-2.9	-.3	3.4	--	2.2	--	-2.1	-2.5	.1	1.7
5	6.2	--	-.9	-4.3	-2.7	-.6	4.4	10.3	4.6	--	-1.4	-1.0	.3	3.1
6	6.9	--	-1.0	-5.4	-2.7	-.8	7.1	9.8	4.9	--	-1.3	-1.1	.6	4.7
7	6.5	--	-1.0	-6.4	-2.8	-2.3	7.4	13.0	3.5	--	--	-.4	.8	6.5
8	4.2	--	-.8	-5.6	-3.6	-2.6	6.4	9.6	1.8	--	-3.5	-1.2	-.3	8.0
9	2.6	--	-.7	-3.2	-4.7	-1.2	6.7	8.2	.6	--	-4.2	-.7	-.6	7.6
10	3.1	--	-.9	-3.4	-5.6	-.4	8.6	8.9	--	--	-4.2	-.8	-.6	5.7
11	5.3	--	-1.5	-2.3	-6.4	-.3	9.5	6.9	-.5	--	-3.0	-1.1	-.2	6.6
12	8.0	--	-1.6	-.9	-6.8	-.1	5.1	4.9	--	--	-.5	-.2	-.7	6.8
13	7.8	--	-2.3	-2.6	-6.6	-.2	2.6	3.9	-2.1	--	-.9	-.6	-.2	7.0
14	5.9	-1.0	-2.1	-3.2	-6.6	0	1.8	4.6	-1.2	--	-.7	-1.9	0	7.3
15	5.1	-1.1	-1.8	-3.8	-6.6	0	1.3	6.4	-1.0	--	-4.5	-2.0	-.1	8.8
16	4.9	-.3	-2.1	-3.3	-6.1	.1	2.3	7.9	-.5	--	-6.5	-1.7	0	10.2
17	7.0	-.9	-2.4	-2.5	-5.2	.1	4.8	8.1	-1.3	--	-6.2	-1.4	0	12.0
18	8.5	-2.0	-3.0	-2.2	-5.0	.1	6.3	9.2	-1.0	--	-6.3	-2.0	0	--
19	6.6	-.7	-2.7	-2.1	-5.2	-.4	6.3	10.2	--	--	-4.9	-1.3	.1	--
20	7.2	-1.2	-3.4	-1.8	-5.5	-.4	5.2	9.5	--	--	-4.7	-1.0	.5	--
21	8.6	-1.8	-2.9	-2.0	-5.6	0	5.0	9.6	-.5	--	-3.6	-.8	.5	--
22	11.4	-.9	-1.3	-4.2	-5.3	.3	7.5	10.9	-.2	--	-5.1	-.8	.7	--
23	10.4	-.7	-.8	-5.8	-5.1	.3	12.3	9.2	-1.0	--	-6.6	-1.0	.6	--
24	8.3	-.9	-3.3	-4.5	-4.9	.5	11.6	7.9	-.2	--	-6.4	-.8	0	--
25	8.4	-.7	-5.3	-3.8	-4.6	1.1	7.7	8.4	--	--	-6.7	-.2	.1	--
26	8.0	-.7	-3.2	-4.7	-3.8	.5	6.1	7.5	--	--	-5.1	-.1	.6	--
27	5.5	-1.0	-3.5	-6.5	-3.0	2.0	4.8	8.0	0	-2.9	-4.2	-.2	-.1	--
28	8.5	-1.0	-4.3	-5.9	-2.8	4.6	6.8	8.7	.1	-3.4	-3.0	-.1	-.5	--
29	8.4	-1.0	-4.9	-6.0	--	6.3	9.1	6.2	-.1	-2.8	-1.6	--	-.7	--
30	3.7	-.8	-4.1	-5.9	--	5.2	9.7	7.1	-.3	-3.2	-1.4	--	-.6	--
31	4.2	--	-4.5	-5.3	--	6.0	--	6.6	--	--	-1.5	--	.4	--

Table 19.--Daily mean recorded soil temperature data (degrees Celsius), for site 2--Continued

Depth 0.15 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	8.2	4.5	-0.4	-3.6	-4.6	-2.6	4.1	--	3.8	-0.1	--	-1.4	-0.2	0
2	7.2	3.4	-1.1	-3.4	-3.9	-2.2	4.6	--	3.2	0	--	-.4	-.2	-.1
3	7.9	4.8	-.8	-3.2	-3.4	-1.4	4.2	--	4.6	--	-3.0	-1.2	-.2	.2
4	8.4	3.6	-.5	-3.5	-2.9	-.5	3.4	--	2.9	--	-2.2	-2.2	0	.8
5	6.8	--	-.5	-3.7	-2.6	-.6	4.1	10.6	4.6	--	-1.5	-1.2	0	2.2
6	7.0	--	-.6	-4.5	-2.6	-.7	6.1	10.0	5.2	--	-1.2	-1.1	.1	3.9
7	6.9	--	-.6	-5.6	-2.6	-1.8	6.9	12.3	4.1	--	--	-.6	.1	5.7
8	5.2	--	-.5	-5.2	-3.1	-2.4	6.2	10.3	2.8	--	-3.0	-1.0	-.2	7.1
9	3.4	--	-.4	-3.4	-4.1	-1.4	6.3	8.8	1.5	--	-3.7	-.8	-.3	7.3
10	3.5	--	-.5	-3.2	-4.9	-.5	7.9	9.2	--	--	-3.8	-.9	-.3	5.9
11	5.2	--	-.8	-2.4	-5.7	-.4	9.0	7.7	.5	--	-3.1	-1.2	-.1	6.2
12	7.7	--	-.9	-1.0	-6.2	-.3	5.9	5.9	--	--	-1.1	-.5	-.3	6.6
13	7.8	--	-1.3	-2.1	-6.2	-.2	3.5	4.8	-.7	--	-1.1	-.6	-.2	6.9
14	6.3	-.4	-1.3	-2.7	-6.2	-.1	2.5	5.0	-.5	--	-.7	-1.6	-.1	6.9
15	5.6	-.4	-1.2	-3.4	-6.2	0	1.8	6.4	-.4	--	-3.3	-1.8	-.1	8.1
16	5.1	-.1	-1.4	-3.2	-5.8	0	2.2	7.8	-.2	--	-5.4	-1.6	-.1	9.4
17	6.9	-.3	-1.6	-2.5	-5.1	0	4.3	8.0	-.5	--	-5.5	-1.4	-.1	10.9
18	8.1	-.9	-2.1	-2.1	-4.8	.1	6.0	9.0	-.5	--	-5.8	-1.7	-.1	--
19	6.6	0	-2.1	-2.0	-4.9	-.1	6.1	9.9	--	--	-4.4	-1.3	0	--
20	7.2	-.5	-2.5	-1.8	-5.1	-.1	5.4	9.6	--	--	-4.4	-1.0	.1	--
21	8.3	-.9	-2.4	-1.7	-5.3	0	5.0	9.5	-.3	--	-3.4	-.8	.1	--
22	10.8	-.5	-1.3	-3.5	-5.0	.2	6.7	10.6	-.2	--	-4.3	-.7	.2	--
23	10.4	-.4	-.7	-5.1	-4.9	.2	10.7	9.7	-.4	--	-5.6	-.9	.2	--
24	8.8	-.5	-2.3	-4.4	-4.7	.2	11.1	8.4	-.2	--	-5.7	-.8	0	--
25	8.4	-.3	-4.0	-3.6	-4.4	.4	8.3	8.6	--	--	-6.1	-.4	0	--
26	8.4	-.3	-3.1	-4.2	-3.8	.2	6.4	7.8	--	--	-5.0	-.3	.3	--
27	6.2	-.5	-2.8	-5.8	-3.1	.6	5.3	8.1	0	-2.7	-4.2	-.2	-.1	--
28	7.9	-.5	-3.5	-5.6	-2.8	2.4	6.3	8.8	0	-3.1	-3.2	-.1	-.2	--
29	8.8	-.5	-4.1	-5.6	--	4.4	8.5	6.9	0	-2.6	-1.8	--	-.3	--
30	4.9	-.4	-3.7	-5.6	--	4.1	9.4	7.2	0	-2.9	-1.4	--	-.3	--
31	4.5	--	-3.8	-5.1	--	5.1	--	7.2	--	--	-1.6	--	0	--

Table 19.--Daily mean recorded soil temperature data (degrees Celsius), for site 2--Continued

Depth 0.20 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	8.1	4.9	-0.2	-3.4	-4.5	-2.6	3.6	--	4.7	0.1	--	-1.7	-0.2	-0.1
2	7.5	3.8	-.6	-3.2	-3.9	-2.2	4.2	--	3.8	.2	--	-.9	-.2	-.1
3	8.1	4.9	-.5	-3.0	-3.3	-1.5	4.1	--	4.9	--	-2.8	-1.5	-.2	0
4	8.6	4.0	-.3	-3.2	-2.9	-.6	3.4	--	3.4	--	-2.2	-2.3	-.1	.3
5	7.3	--	-.3	-3.4	-2.6	-.7	3.9	10.8	4.7	--	-1.5	-1.6	-.1	1.5
6	7.1	--	-.3	-4.0	-2.5	-.7	5.4	10.2	5.3	--	-1.2	-1.5	-.1	3.4
7	7.2	--	-.3	-5.1	-2.5	-1.5	6.5	11.9	4.5	--	--	-1.1	-.1	5.1
8	5.9	--	-.3	-4.9	-2.9	-2.2	6.1	10.7	3.4	--	-2.6	-1.2	-.2	6.4
9	4.1	--	-.2	-3.5	-3.8	-1.4	6.1	9.2	2.1	--	-3.2	-1.0	-.3	6.9
10	3.9	--	-.3	-3.1	-4.6	-.7	7.4	9.4	--	--	-3.4	-.9	-.2	5.9
11	5.2	--	-.5	-2.5	-5.3	-.5	8.6	8.3	1.1	--	-3.0	-1.2	-.1	5.9
12	7.5	--	-.5	-1.1	-5.8	-.3	6.5	6.7	--	--	-1.4	-.6	-.2	6.3
13	7.9	--	-.8	-1.9	-5.9	-.3	4.2	5.5	.1	--	-1.3	-.6	-.2	6.8
14	6.6	0	-.9	-2.5	-5.9	-.1	2.9	5.4	0	--	-1.0	-1.3	-.1	6.6
15	6.0	0	-.9	-3.1	-6.0	0	2.1	6.5	0	--	-2.9	-1.6	-.1	7.6
16	5.4	.2	-1.0	-3.0	-5.6	0	2.3	7.7	.1	--	-4.9	-1.5	-.1	8.9
17	6.8	0	-1.2	-2.4	-5.1	0	4.0	8.0	-.1	--	-5.2	-1.3	-.1	10.2
18	7.8	-.2	-1.6	-2.0	-4.7	0	5.7	8.8	-.2	--	-5.7	-1.6	-.1	--
19	6.7	.4	-1.7	-2.0	-4.7	0	6.0	9.7	--	--	-4.4	-1.3	-.1	--
20	7.2	-.1	-2.1	-1.8	-4.9	0	5.5	9.7	--	--	-4.4	-1.0	0	--
21	8.2	-.5	-2.1	-1.6	-5.1	0	4.9	9.5	-.1	--	-3.6	-.8	0	--
22	10.3	-.3	-1.3	-3.0	-4.9	.1	6.2	10.4	0	--	-4.2	-.7	0	--
23	10.4	-.2	-.7	-4.6	-4.7	.1	9.6	9.9	-.1	--	-5.3	-.8	0	--
24	9.1	-.3	-1.9	-4.2	-4.6	.1	10.6	8.7	-.1	--	-5.5	-.8	-.1	--
25	8.5	-.2	-3.3	-3.5	-4.3	.2	8.6	8.7	--	--	-5.9	-.5	-.1	--
26	8.6	-.1	-2.9	-3.9	-3.8	.1	6.7	8.1	--	--	-5.2	-.4	0	--
27	6.7	-.3	-2.5	-5.3	-3.1	.2	5.6	8.2	.1	-2.6	-4.4	-.2	-.1	--
28	7.7	-.3	-3.1	-5.3	-2.8	.9	6.0	8.9	.2	-2.8	-3.6	-.2	-.2	--
29	9.0	-.3	-3.6	-5.3	--	2.9	8.1	7.4	.2	-2.5	-2.4	--	-.2	--
30	5.8	-.2	-3.4	-5.4	--	3.3	9.1	7.3	.2	-2.6	-1.9	--	-.2	--
31	4.9	--	-3.5	-4.9	--	4.3	--	7.6	--	--	-1.9	--	-.1	--

Table 19.--Daily mean recorded soil temperature data (degrees Celsius), for site 2--Continued

Depth 0.25 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	8.0	5.4	0.1	-3.1	-4.3	-2.6	3.1	--	5.5	0.3	--	-1.6	-0.3	-0.1
2	7.8	4.3	-.1	-3.0	-3.8	-2.2	3.8	--	4.4	.5	--	-.8	-.3	-.2
3	8.3	5.1	-.2	-2.8	-3.3	-1.6	3.9	--	5.2	--	-2.5	-1.3	-.3	-.1
4	8.7	4.4	-.2	-2.9	-2.8	-.7	3.3	--	4.0	--	-2.1	-1.9	-.1	.3
5	7.8	--	-.1	-3.2	-2.6	-.7	3.7	11.0	4.8	--	-1.5	-1.6	-.2	1.3
6	7.4	--	-.1	-3.6	-2.5	-.7	4.8	10.4	5.5	--	-1.1	-1.4	-.2	3.0
7	7.6	--	-.1	-4.7	-2.4	-1.3	6.1	11.6	4.9	--	--	-1.0	-.2	4.5
8	6.5	--	-.1	-3.8	-2.7	-2.0	5.9	11.0	3.9	--	-2.3	-1.1	-.2	5.9
9	4.8	--	-.1	-3.4	-3.4	-1.5	5.8	9.7	2.7	--	-2.8	-1.2	-.3	6.6
10	4.4	--	-.1	-2.9	-4.2	-.8	6.9	9.6	--	--	-3.0	-1.0	-.3	5.9
11	5.4	--	-.2	-2.4	-4.9	-.5	8.1	8.8	1.7	--	-2.9	-1.2	-.1	5.7
12	7.3	--	-.1	-1.2	-5.4	-.4	6.8	7.3	--	--	-1.6	-.7	-.2	6.1
13	7.9	--	-.4	-1.6	-5.6	-.3	4.7	6.1	.7	--	-1.3	-.7	-.2	6.6
14	6.9	.5	-.4	-2.2	-5.6	-.2	3.4	5.8	.6	--	-.9	-1.1	-.1	6.2
15	6.4	.4	-.6	-2.8	-5.7	-.1	2.5	6.6	.5	--	-2.2	-1.5	-.2	7.2
16	5.7	.5	-.7	-2.9	-5.5	-.1	2.4	7.7	.5	--	-4.1	-1.5	-.2	8.5
17	6.8	.4	-.8	-2.3	-4.9	0	3.8	8.1	.3	--	-4.6	-1.3	-.2	9.8
18	7.5	.3	-1.2	-1.9	-4.5	0	5.4	8.8	.2	--	-5.1	-1.4	-.1	--
19	6.9	.9	-1.4	-1.9	-4.5	0	5.8	9.6	--	--	-3.9	-1.3	-.1	--
20	7.3	.3	-1.6	-1.7	-4.7	0	5.6	9.7	--	--	-4.0	-1.0	-.1	--
21	8.1	-.1	-1.8	-1.5	-4.8	0	5.0	9.5	.2	--	-3.2	-.8	-.1	--
22	10.0	0	-1.2	-2.6	-4.7	.1	5.9	10.3	.2	--	-3.7	-.7	-.1	--
23	10.3	0	-.6	-4.1	-4.6	.1	8.7	10.1	.2	--	-4.7	-.8	-.1	--
24	9.3	0	-1.4	-4.0	-4.4	.1	10.0	9.0	.2	--	-4.9	-.8	-.1	--
25	8.6	0	-2.7	-3.4	-4.2	.1	8.8	8.9	--	--	-5.4	-.6	-.1	--
26	8.8	.1	-2.6	-3.6	-3.7	.1	6.9	8.4	--	--	-4.9	-.4	-.1	--
27	7.2	0	-2.2	-4.9	-3.1	.1	6.0	8.3	.3	-2.4	-4.1	-.3	-.2	--
28	7.6	0	-2.7	-5.0	-2.7	.3	5.8	8.9	.4	-2.5	-3.5	-.3	-.2	--
29	9.1	0	-3.2	-5.0	--	1.4	7.7	7.8	.4	-2.3	-2.4	--	-.2	--
30	6.4	0	-3.1	-5.1	--	2.4	8.8	7.5	.4	-2.4	-1.8	--	-.2	--
31	5.3	--	-3.1	-4.7	--	3.5	--	7.9	--	--	-1.8	--	-.1	--

Table 19.--Daily mean recorded soil temperature data (degrees Celsius), for site 2--Continued

Depth 0.30 meter														
Period: October 1985-April 1986								Period: October 1986-April 1987						
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	8.2	5.6	0.3	-2.9	-4.2	-2.5	2.7	--	6.1	0.5	--	-1.5	-0.4	-0.1
2	8.1	4.7	.1	-2.8	-3.7	-2.2	3.5	--	4.9	.7	--	-.8	-.3	-.1
3	8.5	5.3	.1	-2.6	-3.2	-1.6	3.7	--	5.5	--	-2.4	-1.1	-.3	0
4	8.9	4.7	.3	-2.7	-2.8	-.8	3.3	--	4.4	--	-2.0	-1.7	-.3	.4
5	8.2	--	.1	-2.9	-2.5	-.7	3.6	11.1	5.0	--	-1.5	-1.4	-.3	1.2
6	7.6	--	.1	-3.3	-2.4	-.7	4.5	10.6	5.6	--	-1.1	-1.2	-.3	2.7
7	7.9	--	.1	-4.3	-2.3	-1.1	5.8	11.5	5.2	--	--	-.9	-.3	4.2
8	7.0	--	.1	-3.5	-2.6	-1.8	5.7	11.2	4.3	--	-2.1	-.9	-.3	5.5
9	5.4	--	.1	-3.4	-3.2	-1.5	5.6	10.0	3.2	--	-2.6	-1.2	-.3	6.3
10	4.9	--	.1	-2.8	-3.9	-.8	6.6	9.8	--	--	-2.8	-1.0	-.3	5.8
11	5.6	--	0	-2.4	-4.6	-.6	7.8	9.1	2.2	--	-2.8	-1.1	-.2	5.6
12	7.2	--	0	-1.3	-5.1	-.5	6.9	7.8	--	--	-1.6	-.8	-.2	5.9
13	7.9	--	-.1	-1.5	-5.3	-.4	5.1	6.6	1.2	--	-1.3	-.7	-.2	6.5
14	7.2	.8	-.1	-2.0	-5.4	-.3	3.7	6.2	1.0	--	-.8	-1.0	-.2	6.1
15	6.7	.7	-.3	-2.6	-5.5	-.2	2.8	6.8	.9	--	-1.8	-1.4	-.2	6.8
16	6.0	.8	-.4	-2.7	-5.3	-.1	2.6	7.7	.9	--	-3.5	-1.4	-.2	7.9
17	6.9	.7	-.5	-2.3	-4.8	-.1	3.7	8.1	.6	--	-4.1	-1.3	-.2	9.1
18	7.2	.7	-.9	-1.9	-4.4	0	5.1	8.8	.5	--	-4.6	-1.4	-.2	--
19	7.0	1.4	-1.0	-1.8	-4.4	0	5.6	9.5	--	--	-3.6	-1.3	-.2	--
20	7.4	.6	-1.3	-1.7	-4.5	0	5.6	9.7	--	--	-3.7	-1.0	-.2	--
21	8.1	.2	-1.5	-1.4	-4.7	0	5.0	9.5	.4	--	-3.0	-.8	-.1	--
22	9.6	.2	-1.0	-2.4	-4.6	.1	5.7	10.2	.5	--	-3.4	-.8	-.1	--
23	10.2	.2	-.6	-3.7	-4.5	.1	8.1	10.2	.4	--	-4.2	-.8	-.2	--
24	9.5	.2	-1.1	-3.8	-4.3	.1	9.6	9.2	.4	--	-4.5	-.8	-.1	--
25	8.7	.3	-2.2	-3.2	-4.1	.1	8.8	9.0	--	--	-5.0	-.6	-.1	--
26	8.9	.4	-2.3	-3.4	-3.7	.1	7.0	8.6	--	--	-4.6	-.5	-.1	--
27	7.6	.2	-1.9	-4.5	-3.1	.1	6.1	8.5	.5	-2.3	-3.9	-.4	-.2	--
28	7.7	.2	-2.4	-4.8	-2.7	.2	5.8	9.0	.5	-2.4	-3.3	-.3	-.2	--
29	9.1	.2	-2.9	-4.7	--	.7	7.5	8.1	.6	-2.2	-2.3	--	-.2	--
30	6.9	.2	-2.8	-4.9	--	1.8	8.6	7.7	.6	-2.2	-1.7	--	-.2	--
31	5.6	--	-2.9	-4.6	--	2.9	--	8.1	--	--	-1.7	--	-.1	--

Table 19.--Daily mean recorded soil temperature data (degrees Celsius), for site 2--Continued

Depth 0.40 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	8.6	6.2	0.7	-2.2	-3.8	-2.4	1.9	--	7.1	0.9	--	-1.9	-0.4	0
2	8.7	5.5	.6	-2.2	-3.4	-2.2	2.8	--	5.9	1.1	--	-1.3	-.4	0
3	8.9	5.6	.5	-2.1	-3.0	-1.7	3.3	--	6.0	--	-1.9	-1.5	-.4	.1
4	9.2	5.3	.6	-2.2	-2.6	-1.0	3.2	--	5.3	--	-1.7	-1.8	-.5	.5
5	8.9	--	.5	-2.3	-2.3	-.8	3.3	11.4	5.4	--	-1.3	-1.7	-.5	1.1
6	8.2	--	.5	-2.6	-2.2	-.8	3.9	11.0	5.9	--	-1.0	-1.6	-.4	2.3
7	8.4	--	.5	-3.3	-2.1	-.9	5.1	11.4	5.7	--	--	-1.3	-.4	3.5
8	7.9	--	.5	-3.4	-2.2	-1.4	5.4	11.5	5.1	--	-1.6	-1.3	-.3	4.7
9	6.6	--	.5	-2.9	-2.7	-1.4	5.3	10.5	4.1	--	-1.9	-1.2	-.4	5.6
10	5.9	--	.5	-2.5	-3.3	-.9	6.0	10.2	--	--	-2.2	-1.0	-.4	5.5
11	6.1	--	.4	-2.1	-3.9	-.6	7.1	9.8	3.0	--	-2.3	-1.1	-.3	5.3
12	7.2	--	.5	-1.3	-4.4	-.5	6.9	8.7	--	--	-1.6	-.9	-.3	5.6
13	8.0	--	.3	-1.3	-4.6	-.4	5.5	7.6	2.1	--	-1.3	-.7	-.2	6.1
14	7.8	1.5	.3	-1.6	-4.7	-.3	4.3	7.0	1.9	--	-1.2	-.9	-.2	5.9
15	7.3	1.4	.2	-2.1	-4.8	-.2	3.4	7.2	1.7	--	-1.6	-1.2	-.2	6.5
16	6.7	1.4	.1	-2.3	-4.7	-.2	2.9	7.9	1.6	--	-2.9	-1.2	-.2	7.4
17	7.1	1.3	0	-2.0	-4.4	-.2	3.5	8.3	1.2	--	-3.6	-1.2	-.2	8.2
18	7.2	1.3	-.2	-1.7	-4.1	-.1	4.7	8.8	1.1	--	-4.0	-1.2	-.2	--
19	7.4	1.9	-.2	-1.6	-4.0	-.1	5.3	9.4	--	--	-3.4	-1.1	-.1	--
20	7.6	1.1	-.5	-1.4	-4.1	-.1	5.5	9.7	--	--	-3.6	-.9	-.1	--
21	8.0	.8	-.7	-1.2	-4.2	0	5.0	9.6	1.0	--	-3.0	-.8	-.1	--
22	9.2	.8	-.5	-1.8	-4.1	0	5.4	10.1	1.0	--	-3.2	-.7	0	--
23	10.0	.7	-.3	-2.8	-4.1	0	7.1	10.3	1.0	--	-3.8	-.7	-.1	--
24	9.7	.7	-.5	-3.2	-3.9	0	8.7	9.6	.9	--	-4.1	-.7	0	--
25	9.0	.7	-1.1	-2.8	-3.8	.1	8.6	9.3	--	--	-4.6	-.6	0	--
26	9.1	.8	-1.4	-2.8	-3.5	.1	7.3	9.0	--	--	-4.5	-.6	-.1	--
27	8.3	.6	-1.3	-3.6	-3.0	0	6.5	8.8	.9	-1.8	-3.9	-.5	-.1	--
28	7.9	.7	-1.6	-4.0	-2.6	.1	5.9	9.1	.9	-1.8	-3.5	-.4	-.1	--
29	9.0	.6	-2.0	-4.1	--	.2	7.0	8.6	1.0	-1.7	-2.7	--	0	--
30	7.5	.7	-2.1	-4.2	--	.5	8.1	8.1	1.0	-1.7	-2.1	--	-.1	--
31	6.3	--	-2.2	-4.0	--	1.4	--	8.4	--	--	-2.0	--	0	--

Table 19.--Daily mean recorded soil temperature data (degrees Celsius), for site 2--Continued

Depth 0.50 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	9.2	6.7	1.1	-1.6	-3.3	-2.3	1.1	--	7.8	1.4	--	-2.2	-0.4	0
2	9.2	6.2	1.0	-1.6	-3.0	-2.0	2.2	--	6.7	1.5	--	-1.8	-.4	.1
3	9.3	6.0	.9	-1.6	-2.7	-1.7	2.9	--	6.5	--	-1.4	-1.8	-.4	.3
4	9.5	5.8	1.1	-1.6	-2.3	-1.1	3.0	--	6.1	--	-1.3	-2.0	-.6	.7
5	9.4	--	.9	-1.7	-2.1	-.8	3.1	11.7	5.9	--	-1.0	-2.0	-.6	1.1
6	8.8	--	.9	-1.9	-2.0	-.8	3.5	11.4	6.2	--	-.9	-1.9	-.4	2.0
7	8.8	--	.8	-2.4	-1.8	-.8	4.6	11.4	6.2	--	--	-1.7	-.4	3.0
8	8.6	--	.8	-2.6	-1.9	-1.1	5.0	11.6	5.7	--	-1.0	-1.7	-.3	4.1
9	7.5	--	.8	-2.4	-2.2	-1.2	5.0	11.0	4.9	--	-1.3	-1.1	-.4	5.0
10	6.8	--	.8	-2.1	-2.7	-.9	5.6	10.6	--	--	-1.5	-.9	-.3	5.2
11	6.7	--	.8	-1.8	-3.2	-.7	6.5	10.2	3.8	--	-1.6	-.9	-.3	5.0
12	7.4	--	.9	-1.2	-3.6	-.5	6.6	9.4	--	--	-1.3	-.8	-.2	5.3
13	8.1	--	.7	-1.0	-3.9	-.5	5.7	8.4	2.9	--	-1.3	-.7	-.1	5.7
14	8.1	2.1	.8	-1.3	-4.0	-.4	4.7	7.8	2.7	--	-1.6	-.7	-.1	5.7
15	7.8	2.0	.5	-1.6	-4.1	-.3	3.8	7.7	2.4	--	-1.7	-.9	-.1	6.1
16	7.3	2.0	.5	-1.8	-4.1	-.3	3.2	8.1	2.3	--	-2.4	-1.0	-.1	6.8
17	7.4	1.9	.4	-1.7	-4.0	-.2	3.5	8.5	1.7	--	-3.1	-.9	0	7.5
18	7.5	1.7	.3	-1.4	-3.7	-.1	4.4	8.9	1.7	--	-3.5	-.9	0	--
19	7.7	1.6	.2	-1.3	-3.6	-.1	5.1	9.3	--	--	-3.2	-.9	0	--
20	7.8	1.5	0	-1.2	-3.6	-.1	5.3	9.7	--	--	-3.4	-.8	0	--
21	8.1	1.3	0	-1.0	-3.7	-.1	5.0	9.7	1.5	--	-3.0	-.7	.1	--
22	8.9	1.3	0	-1.3	-3.7	0	5.2	10.0	1.5	--	-3.1	-.6	.1	--
23	9.8	1.2	0	-2.0	-3.6	0	6.4	10.3	1.5	--	-3.5	-.6	.1	--
24	9.8	1.1	-.1	-2.5	-3.5	0	7.8	9.8	1.4	--	-3.8	-.6	.1	--
25	9.3	1.1	-.2	-2.2	-3.4	.1	8.2	9.5	--	--	-4.2	-.6	.1	--
26	9.3	1.3	-.5	-2.3	-3.2	.1	7.3	9.3	--	--	-4.3	-.5	-.1	--
27	8.8	1.1	-.6	-2.8	-2.8	0	6.7	9.1	1.4	-1.3	-3.9	-.5	.1	--
28	8.3	1.1	-.8	-3.2	-2.5	0	6.0	9.2	1.4	-1.3	-3.6	-.4	.1	--
29	8.9	1.0	-1.2	-3.4	--	.1	6.6	9.0	1.4	-1.2	-3.0	--	.1	--
30	8.0	1.1	-1.2	-3.5	--	.1	7.6	8.5	1.4	-1.2	-2.5	--	.1	--
31	6.9	--	-1.4	-3.4	--	.3	--	8.6	--	--	-2.3	--	.2	--

Table 19.--Daily mean recorded soil temperature data (degrees Celsius), for site 2--Continued

Depth 0.60 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	10.0	7.2	1.5	-0.8	-2.7	-2.1	0.3	--	8.4	2.2	--	-0.2	0	0.9
2	9.9	6.8	1.3	-.9	-2.5	-1.8	1.7	--	7.5	2.2	--	-.2	0	.7
3	9.9	6.5	1.3	-1.0	-2.3	-1.6	2.5	--	7.2	--	-0.4	0	0	.8
4	9.9	6.3	1.3	-1.0	-2.0	-1.1	2.8	--	6.8	--	-.4	0	.4	.9
5	9.9	--	1.3	-1.1	-1.8	-.8	2.9	12.1	6.5	--	-.3	-.1	.3	1.3
6	9.5	--	1.3	-1.3	-1.7	-.8	3.3	11.8	6.7	--	-.1	0	.2	1.9
7	9.4	--	1.2	-1.5	-1.6	-.7	4.1	11.7	6.7	--	--	.1	.2	2.8
8	9.2	--	1.2	-1.8	-1.6	-.9	4.6	11.9	6.4	--	-.2	.2	.3	3.7
9	8.5	--	1.2	-1.7	-1.8	-1.0	4.8	11.4	5.7	--	-.3	-.5	.3	4.6
10	7.8	--	1.2	-1.5	-2.1	-.8	5.2	11.0	--	--	-.5	-.3	.3	4.9
11	7.5	--	1.1	-1.3	-2.5	-.6	5.9	10.7	4.6	--	-.7	-.2	.5	4.9
12	7.8	--	1.2	-1.0	-2.9	-.5	6.3	10.1	--	--	-.5	-.3	.4	5.1
13	8.4	--	1.0	-.8	-3.1	-.4	5.7	9.2	3.8	--	-.1	-.2	.6	5.5
14	8.5	2.8	1.1	-.9	-3.3	-.3	4.9	8.5	3.5	--	.4	-.2	.6	5.6
15	8.3	2.6	.9	-1.1	-3.4	-.3	4.2	8.3	3.2	--	.3	-.3	.5	5.9
16	8.0	2.6	.8	-1.3	-3.5	-.2	3.6	8.5	3.1	--	0	-.3	.6	6.4
17	7.8	2.5	.7	-1.2	-3.4	-.2	3.6	8.8	3.0	--	-.5	-.3	.7	7.0
18	8.0	2.1	.6	-1.1	-3.2	-.2	4.3	9.1	2.8	--	-.8	-.3	.6	--
19	8.1	1.9	.6	-1.0	-3.1	-.1	4.9	9.5	--	--	-1.0	-.3	.6	--
20	8.1	1.8	.5	-.9	-3.1	-.1	5.2	9.8	--	--	-1.0	-.2	.6	--
21	8.3	1.8	.4	-.8	-3.1	-.1	5.0	9.9	2.5	--	-.8	-.2	.7	--
22	8.8	1.7	.5	-.9	-3.2	-.1	5.1	10.1	2.4	--	-.8	-.1	.6	--
23	9.6	1.7	.4	-1.4	-3.2	-.1	5.9	10.4	2.4	--	-1.1	0	.6	--
24	9.8	1.6	.3	-1.7	-3.1	-.1	7.1	10.1	2.3	--	-1.0	0	.7	--
25	9.5	1.6	.2	-1.7	-3.0	0	7.7	9.8	--	--	-1.5	-.1	.6	--
26	9.4	1.7	.1	-1.8	-2.8	0	7.2	9.6	--	--	-1.8	0	.9	--
27	9.2	1.5	-.1	-2.1	-2.6	0	6.7	9.4	2.2	-.3	-1.7	0	.7	--
28	8.7	1.5	-.1	-2.4	-2.3	0	6.1	9.5	2.2	-.3	-1.3	0	.7	--
29	9.0	1.4	-.4	-2.6	--	.1	6.4	9.4	2.3	-.3	-1.0	--	.6	--
30	8.5	1.5	-.4	-2.7	--	0	7.2	8.9	2.2	-.3	-.6	--	.7	--
31	7.5	--	-.7	-2.8	--	.1	--	9.0	--	--	-.4	--	.7	--

Table 19.--Daily mean recorded soil temperature data (degrees Celsius), for site 2--Continued

Depth 0.80 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	11.2	8.1	2.4	0.3	-1.4	-1.5	0.3	--	9.2	3.1	--	0.2	0.4	1.2
2	11.0	7.8	2.3	.3	-1.3	-1.3	1.2	--	8.6	3.1	--	.2	.5	1.1
3	10.9	7.4	2.2	.2	-1.3	-1.2	2.0	--	8.2	--	0.6	.3	.5	1.2
4	10.8	7.3	2.2	.1	-1.2	-.9	2.4	--	7.8	--	.6	.3	.8	1.3
5	10.7	--	2.2	.1	-1.1	-.7	2.7	12.6	7.6	--	.5	.4	.8	1.4
6	10.5	--	2.2	0	-1.0	-.6	2.9	12.3	7.5	--	.7	.4	.7	1.8
7	10.3	--	2.1	0	-.9	-.5	3.4	12.1	7.5	--	--	.4	.7	2.3
8	10.3	--	2.1	-.2	-.9	-.5	4.0	12.1	7.3	--	.6	.5	.7	3.0
9	9.9	--	2.1	-.1	-.9	-.6	4.3	11.9	6.9	--	.6	-.1	.8	3.7
10	9.4	--	2.0	-.2	-1.1	-.6	4.5	11.6	--	--	.5	.1	.7	4.2
11	9.0	--	2.0	-.2	-1.3	-.4	5.1	11.3	6.0	--	.4	.1	.9	4.4
12	8.9	--	2.0	-.2	-1.5	-.4	5.5	10.9	--	--	.4	.1	.9	4.6
13	9.0	--	1.9	-.2	-1.6	-.3	5.5	10.3	5.2	--	.6	.1	1.0	4.8
14	9.2	4.1	2.0	-.2	-1.8	-.2	5.1	9.8	5.0	--	1.0	.2	1.1	5.1
15	9.2	3.9	1.8	-.2	-2.0	-.2	4.6	9.4	4.7	--	.9	.2	.9	5.4
16	9.0	3.8	1.7	-.2	-2.1	-.2	4.1	9.3	4.4	--	.9	.2	1.0	5.9
17	8.8	3.7	1.5	-.2	-2.1	-.1	3.9	9.4	4.3	--	.8	.2	1.1	8.5
18	8.8	3.2	1.5	-.2	-2.1	-.1	4.1	9.5	4.0	--	.7	.2	1.0	--
19	8.8	3.0	1.5	-.2	-2.0	-.1	4.6	9.7	--	--	.5	.2	1.0	--
20	8.8	2.9	1.4	-.2	-2.0	-.1	4.8	10.0	--	--	.5	.3	1.0	--
21	8.9	2.9	1.3	-.1	-2.0	-.1	4.9	10.1	3.6	--	.4	.3	1.1	--
22	9.1	2.9	1.4	-.2	-2.0	-.2	5.0	10.2	3.5	--	.4	.3	1.0	--
23	9.5	2.8	1.3	-.2	-2.1	-.3	5.3	10.4	3.4	--	.2	.4	1.0	--
24	9.8	2.6	1.1	-.2	-2.1	0	6.0	10.4	3.4	--	.5	.4	1.0	--
25	9.8	2.6	1.1	-.3	-2.0	0	6.7	10.2	--	--	.1	.4	1.0	--
26	9.7	2.7	1.1	-.6	-1.9	.1	6.8	10.1	--	--	-.2	.4	1.2	--
27	9.7	2.5	.9	-.7	-1.8	0	6.6	9.9	3.2	.8	-.3	.5	1.1	--
28	9.4	2.4	.8	-.9	-1.7	.1	6.3	9.9	3.2	.7	-.2	.5	1.0	--
29	9.4	2.4	.6	-1.1	--	.2	6.2	9.8	3.2	.7	-.2	--	1.0	--
30	9.2	2.4	.7	-1.2	--	.2	6.6	9.6	3.2	.7	0	--	1.0	--
31	8.5	--	.4	-1.3	--	.3	7.0	9.4	--	--	.1	--	1.1	--

Table 19.--Daily mean recorded soil temperature data (degrees Celsius), for site 2--Continued

Depth 1.00 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	12.2	9.0	3.3	1.3	-0.1	-0.8	0.9	--	9.7	4.0	--	1.0	1.0	1.6
2	12.0	8.7	3.2	1.2	-.1	-.8	1.3	--	9.5	4.0	--	1.0	1.0	1.5
3	11.8	8.4	3.2	1.1	-.1	-.6	1.9	--	9.1	--	1.5	1.0	1.0	1.6
4	11.6	8.2	3.1	1.0	-.2	-.3	2.4	--	8.7	--	1.5	1.0	1.4	1.7
5	11.4	--	3.1	1.0	-.1	-.3	2.7	13.0	8.5	--	1.4	1.1	1.3	1.8
6	11.4	--	3.0	.9	-.1	-.2	2.9	12.7	8.3	--	1.6	1.1	1.2	2.0
7	11.2	--	3.0	.8	-.2	-.2	3.3	12.5	8.2	--	--	1.2	1.1	2.3
8	11.0	--	3.0	1.7	-.2	-.2	3.7	12.4	8.1	--	1.4	1.2	1.2	2.7
9	10.8	--	2.9	.5	-.2	-.1	4.0	12.3	7.8	--	1.4	.6	1.2	3.3
10	10.5	--	2.8	.7	-.2	-.1	4.3	12.1	--	--	1.4	.7	1.2	3.7
11	10.2	--	2.8	.6	-.2	0	4.7	11.8	7.1	--	1.3	.8	1.4	4.0
12	10.0	--	2.6	.6	-.3	0	5.0	11.6	--	--	1.3	.7	1.3	4.2
13	9.9	--	2.7	.6	-.4	.1	5.2	11.2	6.4	--	1.5	.7	1.4	4.5
14	9.9	5.4	2.6	.6	-.5	.1	5.2	10.7	6.2	--	1.9	.8	1.5	4.6
15	9.9	5.2	2.6	.6	-.6	.1	4.9	10.3	5.9	--	1.8	.8	1.4	4.9
16	9.8	5.0	2.5	.6	-.7	.1	4.6	10.1	5.7	--	1.8	.8	1.4	5.3
17	9.7	4.9	2.3	.6	-.8	.2	4.4	10.0	5.5	--	1.8	.8	1.5	5.6
18	9.6	4.3	2.4	.5	-.9	.2	4.4	10.0	5.2	--	1.7	.8	1.5	--
19	9.6	2.9	2.3	.6	-.9	.2	4.5	10.1	--	--	1.6	.8	1.4	--
20	9.6	3.7	2.2	.6	-1.0	.3	4.8	10.2	--	--	1.5	.9	1.5	--
21	9.6	4.1	2.2	.5	-1.0	.4	5.0	10.4	4.8	--	1.4	.9	1.5	--
22	9.6	3.9	2.0	.5	-1.1	.4	5.0	10.5	4.6	--	1.4	.9	1.4	--
23	9.7	3.8	2.0	.6	-1.1	.4	5.2	10.6	4.5	--	1.3	1.0	1.4	--
24	9.9	3.7	1.9	.4	-1.1	.6	5.7	10.6	4.5	--	1.6	1.0	1.4	--
25	10.0	3.8	1.9	.3	-1.0	.6	6.2	10.6	--	--	1.3	.9	1.4	--
26	10.1	3.5	1.8	.3	-1.0	.6	6.5	10.5	--	--	1.1	1.0	1.6	--
27	10.0	3.5	1.7	.3	-1.0	.6	6.5	10.3	4.2	1.8	.9	1.0	1.4	--
28	9.9	3.5	1.6	.2	-.9	.8	6.3	10.3	4.2	1.7	1.0	1.0	1.4	--
29	9.9	3.4	1.5	.1	--	.8	6.3	10.2	4.2	1.6	.9	--	1.4	--
30	9.8	3.4	1.4	.1	--	.8	6.4	10.1	4.1	1.6	.9	--	1.4	--
31	9.3	--	1.3	0	--	.9	--	9.9	--	--	.9	--	1.5	--

Table 19.--Daily mean recorded soil temperature data (degrees Celsius), for site 2--Continued

Depth 1.25 meters														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	12.8	9.7	4.3	2.3	0.9	0.1	1.4	--	10.2	5.0	--	1.8	1.6	2.0
2	12.6	9.4	4.2	2.2	.8	0	1.5	--	10.0	5.0	--	1.9	1.6	1.9
3	12.4	9.2	4.2	2.1	.8	.1	1.9	--	9.9	--	2.5	1.8	1.6	2.0
4	12.3	9.0	4.0	2.0	.7	.3	2.2	--	9.5	--	2.5	1.9	2.0	2.1
5	12.1	--	4.0	2.0	.8	.3	2.5	13.2	9.3	--	2.4	1.9	1.9	2.1
6	12.0	--	4.0	1.9	.7	.3	2.7	12.9	9.2	--	2.5	1.9	1.7	2.2
7	11.9	--	3.9	1.8	.7	.3	3.0	12.7	9.0	--	--	2.0	1.7	2.4
8	11.7	--	3.9	1.7	.7	.4	3.3	12.7	8.9	--	2.3	2.0	1.8	2.7
9	11.5	--	3.8	1.5	.7	.5	3.6	12.5	8.6	--	2.3	1.4	1.8	3.0
10	11.4	--	3.7	1.7	.7	.5	3.9	12.4	--	--	2.3	1.5	1.7	3.3
11	11.1	--	3.7	1.7	.7	.5	4.2	12.2	8.1	--	2.3	1.6	1.9	3.7
12	10.9	--	3.6	1.6	.6	.6	4.4	12.0	--	--	2.2	1.4	1.8	3.9
13	10.8	--	3.6	1.5	.6	.6	4.7	11.7	7.6	--	2.4	1.4	1.9	4.1
14	10.7	6.6	3.5	1.5	.5	.7	4.8	11.5	7.4	--	2.8	1.5	2.0	4.2
15	10.6	6.4	3.5	1.5	.5	.7	4.8	11.2	7.1	--	2.7	1.5	1.9	4.4
16	10.5	6.2	3.4	1.5	.5	.7	4.6	10.9	6.9	--	2.7	1.5	1.9	4.6
17	10.5	6.1	3.1	1.5	.4	.8	4.6	10.7	6.7	--	2.7	1.5	2.0	4.8
18	10.3	5.5	3.3	1.4	.3	.9	4.5	10.6	6.4	--	2.6	1.5	1.9	--
19	10.3	4.2	3.2	1.4	.2	.9	4.5	10.6	--	--	2.6	1.5	1.9	--
20	10.2	4.9	3.2	1.4	.1	.9	4.6	10.6	--	--	2.5	1.5	2.0	--
21	10.2	5.2	3.1	1.4	.1	1.0	4.7	10.7	5.9	--	2.4	1.5	2.0	--
22	10.1	5.1	3.0	1.4	.1	1.0	4.9	10.7	5.8	--	2.4	1.5	1.9	--
23	10.1	4.9	3.0	1.4	.1	.9	5.0	10.8	5.7	--	2.3	1.6	1.9	--
24	10.2	4.8	2.9	1.3	.1	1.1	5.2	10.8	5.6	--	2.5	1.6	1.9	--
25	10.3	4.9	2.8	1.2	.1	1.1	5.5	10.8	--	--	2.3	1.6	1.9	--
26	10.3	4.6	2.7	1.2	.1	1.2	5.8	10.7	--	--	2.1	1.6	2.0	--
27	10.3	4.6	2.7	1.2	.1	1.1	6.0	10.7	5.3	2.8	2.0	1.6	1.9	--
28	10.3	4.5	2.6	1.2	.1	1.2	6.0	10.6	5.2	2.7	2.0	1.6	1.9	--
29	10.3	4.5	2.5	1.1	--	1.3	6.0	10.5	5.2	2.7	1.9	--	1.8	--
30	10.2	4.4	2.4	1.1	--	1.3	6.1	10.5	5.1	2.6	1.8	--	1.9	--
31	10.0	--	2.3	1.0	--	1.3	--	10.4	--	--	1.8	--	1.9	--

Table 19.--Daily mean recorded soil temperature data (degrees Celsius), for site 2--Continued

Depth 1.50 meters														
Period: October 1985-April 1986								Period: October 1986-April 1987						
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	13.2	10.2	5.3	3.2	1.8	0.9	1.9	--	10.5	6.0	--	2.7	2.2	2.5
2	13.0	10.0	5.1	3.2	1.8	.9	2.0	--	10.5	6.0	--	2.8	2.2	2.3
3	12.8	9.8	5.1	3.1	1.7	.9	2.1	--	10.4	--	3.5	2.7	2.2	2.4
4	12.7	9.6	5.8	3.0	1.7	1.1	2.4	--	10.1	--	3.4	2.7	2.6	2.5
5	12.5	--	5.0	2.9	1.7	1.1	2.6	13.2	10.0	--	3.4	2.7	2.5	2.6
6	12.4	--	4.9	2.8	1.6	1.1	2.8	13.0	9.8	--	3.5	2.7	2.3	2.6
7	12.3	--	4.8	2.8	1.6	1.1	3.0	12.9	9.6	--	--	2.8	2.3	2.7
8	12.1	--	4.8	2.6	1.5	1.2	3.2	12.8	9.5	--	3.3	2.8	2.4	2.8
9	11.9	--	4.7	2.5	1.5	1.2	3.4	12.7	9.3	--	3.3	2.2	2.3	3.0
10	11.8	--	4.6	2.7	1.5	1.2	3.7	12.6	--	--	3.2	2.2	2.3	3.2
11	11.7	--	4.6	2.7	1.5	1.2	3.9	12.5	8.9	--	3.2	2.3	2.5	3.5
12	11.5	--	4.5	2.6	1.5	1.3	4.1	12.3	--	--	3.1	2.2	2.4	3.7
13	11.3	--	4.5	2.5	1.4	1.3	4.4	12.1	8.5	--	3.4	2.2	2.5	3.9
14	11.2	7.7	4.4	2.5	1.4	1.4	4.5	11.9	8.4	--	3.7	2.2	2.5	4.0
15	11.1	7.5	4.4	2.4	1.4	1.4	4.6	11.7	8.2	--	3.6	2.2	2.4	4.2
16	11.0	7.3	4.3	2.4	1.3	1.4	4.6	11.5	8.0	--	3.6	2.2	2.4	4.3
17	10.9	7.1	4.1	2.4	1.3	1.5	4.6	11.3	7.7	--	3.6	2.2	2.5	4.5
18	10.8	6.7	4.2	2.3	1.2	1.5	4.6	11.2	7.5	--	3.5	2.2	2.5	--
19	10.7	6.0	4.1	2.3	1.1	1.5	4.5	11.1	--	--	3.5	2.2	2.4	--
20	10.7	6.2	4.1	2.3	1.0	1.5	4.6	11.0	--	--	3.4	2.2	2.5	--
21	10.6	6.3	4.0	2.3	1.1	1.6	4.7	11.0	7.0	--	3.4	2.2	2.5	--
22	10.5	6.1	3.9	2.2	1.0	1.6	4.8	11.0	6.9	--	3.3	2.2	2.5	--
23	10.5	6.0	3.9	2.3	1.0	1.5	4.9	11.0	6.8	--	3.2	2.3	2.4	--
24	10.5	5.9	3.8	2.2	1.0	1.6	5.0	11.0	6.6	--	3.4	2.2	2.4	--
25	10.5	5.9	3.7	2.1	1.0	1.7	5.2	11.0	--	--	3.2	2.2	2.4	--
26	10.5	5.6	3.7	2.1	1.0	1.7	5.4	11.0	--	--	3.0	2.2	2.5	--
27	10.5	5.6	3.6	2.1	1.0	1.7	5.6	11.0	6.3	3.9	3.0	2.2	2.4	--
28	10.5	5.5	3.5	2.0	.9	1.8	5.7	10.9	6.2	3.8	2.9	2.2	2.4	--
29	10.5	5.4	3.5	2.0	--	1.8	5.8	10.8	6.2	3.7	2.9	--	2.3	--
30	10.4	5.3	3.4	2.0	--	1.8	5.8	10.8	6.1	3.7	2.8	--	2.3	--
31	10.4	--	3.3	1.9	--	1.9	--	10.7	--	--	2.8	--	2.4	--

Table 19.--Daily mean recorded soil temperature data (degrees Celsius), for site 2--Continued

Depth 1.75 meters														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	13.3	10.5	6.2	4.2	2.7	1.8	2.5	--	10.9	7.0	--	3.6	2.9	2.9
2	13.2	10.4	6.1	4.1	2.7	1.7	2.5	--	10.8	7.0	--	3.7	2.9	2.8
3	13.0	10.3	6.0	4.0	2.7	1.8	2.6	--	10.8	--	4.5	3.6	2.9	2.9
4	12.9	10.1	5.9	3.9	2.6	1.9	2.7	--	10.6	--	4.4	3.6	3.2	3.0
5	12.7	--	5.9	3.9	2.6	1.9	2.9	13.2	10.5	--	4.4	3.6	3.1	3.0
6	12.6	--	5.8	3.8	2.5	1.9	3.0	13.1	10.4	--	4.5	3.5	2.9	3.0
7	12.5	--	5.7	3.7	2.5	1.9	3.2	13.0	10.2	--	--	3.6	2.9	3.1
8	12.4	--	5.7	3.6	2.4	1.9	3.3	12.9	10.1	--	4.2	3.5	3.0	3.2
9	12.2	--	5.6	3.5	2.4	2.0	3.5	12.8	9.9	--	4.2	3.0	2.9	3.3
10	12.1	--	5.5	3.7	2.4	2.0	3.7	12.7	--	--	4.2	3.0	2.9	3.4
11	12.0	--	5.5	3.6	2.3	2.0	3.9	12.6	9.6	--	4.1	3.1	3.1	3.5
12	11.9	--	5.4	3.6	2.3	2.0	4.0	12.5	--	--	4.1	3.0	3.0	3.6
13	11.7	--	5.3	3.5	2.3	2.0	4.2	12.3	9.3	--	4.3	3.0	3.0	3.8
14	11.6	8.6	5.3	3.4	2.3	2.1	4.4	12.2	9.3	--	4.6	3.0	3.1	3.9
15	11.5	8.4	5.3	3.4	2.3	2.1	4.5	12.1	9.1	--	4.5	2.9	3.0	4.0
16	11.4	8.3	5.2	3.3	2.3	2.1	4.5	12.0	9.0	--	4.4	2.9	3.0	4.2
17	11.3	8.1	5.0	3.3	2.2	2.2	4.7	11.8	8.7	--	4.4	2.9	3.0	4.3
18	11.2	7.8	5.0	3.2	2.1	2.2	4.7	11.7	8.5	--	4.4	2.9	3.0	--
19	11.1	7.4	5.0	3.2	2.1	2.2	4.6	11.5	--	--	4.4	2.9	3.0	--
20	11.0	7.2	4.9	3.2	2.0	2.2	4.7	11.4	--	--	4.3	2.9	3.0	--
21	11.0	7.2	4.9	3.2	2.0	2.2	4.7	11.4	8.0	--	4.3	2.9	3.1	--
22	10.9	7.1	4.9	3.1	1.9	2.2	4.8	11.4	7.9	--	4.2	2.9	3.0	--
23	10.8	6.9	4.8	3.1	1.9	2.1	4.9	11.3	7.8	--	4.1	3.0	3.0	--
24	10.8	6.8	4.7	3.0	1.9	2.2	5.0	11.3	7.6	--	4.3	2.9	3.0	--
25	10.7	6.8	4.6	3.0	1.9	2.3	5.1	11.3	--	--	4.1	2.9	3.0	--
26	10.8	6.6	4.6	3.0	1.9	2.3	5.2	11.2	--	--	4.0	2.9	3.1	--
27	10.7	6.5	4.5	2.9	1.8	2.3	5.3	11.2	7.3	4.9	3.9	2.9	2.9	--
28	10.7	6.4	4.4	2.9	1.8	2.4	5.5	11.2	7.2	4.8	3.8	2.9	2.9	--
29	10.7	6.3	4.4	2.9	--	2.4	5.6	11.1	7.2	4.8	3.8	--	2.9	--
30	10.6	6.3	4.3	2.9	--	2.4	5.7	11.1	7.0	4.7	3.7	--	2.8	--
31	10.6	--	4.2	2.8	--	2.5	--	11.0	--	--	3.7	--	2.9	--

Table 19.--Daily mean recorded soil temperature data (degrees Celsius), for site 2--Continued

Depth 2.00 meters														
Period: October 1985-April 1986								Period: October 1986-April 1987						
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	13.0	10.7	6.9	4.9	3.4	2.5	2.9	--	11.1	7.6	--	4.3	3.4	3.3
2	13.2	10.6	6.7	4.8	3.4	2.4	3.0	--	11.0	7.7	--	4.4	3.4	3.2
3	13.1	10.6	6.7	4.7	3.4	2.5	3.0	--	11.0	--	5.2	4.2	3.4	3.2
4	13.0	10.5	6.6	4.6	3.4	2.6	3.1	--	10.9	--	5.1	4.2	3.6	3.4
5	12.9	--	6.5	4.6	3.3	2.6	3.2	13.1	10.9	--	5.1	4.2	3.6	3.4
6	12.7	--	6.5	4.5	3.2	2.6	3.3	13.0	10.8	--	5.2	4.1	3.4	3.4
7	12.6	--	6.4	4.5	3.2	2.5	3.4	13.0	10.6	--	--	4.2	3.4	3.4
8	12.5	--	6.3	4.4	3.1	2.6	3.5	12.9	10.5	--	4.9	4.1	3.4	3.4
9	12.4	--	6.3	4.3	3.1	2.6	3.6	12.8	10.4	--	4.9	3.6	3.4	3.5
10	12.3	--	6.1	4.4	3.1	2.6	3.8	12.8	--	--	4.8	3.7	3.3	3.5
11	12.2	--	6.1	4.4	3.0	2.6	4.0	12.7	10.1	--	4.8	3.7	3.5	3.6
12	12.1	--	6.0	4.4	3.0	2.6	4.0	12.6	--	--	4.7	3.6	3.4	3.7
13	11.9	--	6.0	4.2	3.0	2.6	4.2	12.5	9.8	--	4.9	3.5	3.5	3.9
14	11.8	9.2	6.0	4.1	3.0	2.6	4.3	12.4	9.8	--	5.2	3.6	3.5	3.9
15	11.7	9.0	5.9	4.1	3.0	2.7	4.4	12.3	9.7	--	5.1	3.5	3.4	4.0
16	11.6	8.9	5.8	4.0	2.9	2.6	4.5	12.2	9.6	--	5.1	3.5	3.4	4.1
17	11.5	8.7	5.7	4.0	2.9	2.7	4.7	12.1	9.3	--	5.0	3.5	3.4	4.2
18	11.4	8.5	5.7	4.0	2.9	2.7	4.7	12.0	9.1	--	5.0	3.5	3.4	--
19	11.4	8.2	5.7	3.9	2.8	2.7	4.7	11.8	--	--	5.0	3.5	3.4	--
20	11.3	7.9	5.6	3.9	2.7	2.7	4.8	11.7	--	--	4.9	3.5	3.4	--
21	11.2	7.9	5.5	3.9	2.7	2.7	4.8	11.6	8.7	--	4.9	3.4	3.5	--
22	11.1	7.7	5.5	3.8	2.6	2.7	4.8	11.6	8.6	--	4.8	3.4	3.4	--
23	11.1	7.6	5.5	3.8	2.6	2.7	4.9	11.6	8.5	--	4.7	3.5	3.4	--
24	11.0	7.5	5.3	3.7	2.6	2.7	5.0	11.5	8.3	--	4.9	3.5	3.4	--
25	10.9	7.5	5.3	3.7	2.6	2.8	5.0	11.5	--	--	4.7	3.4	3.4	--
26	10.9	7.3	5.3	3.7	2.6	2.9	5.1	11.4	--	--	4.6	3.4	3.5	--
27	10.9	7.2	5.2	3.6	2.6	2.8	5.2	11.4	8.0	5.6	4.5	3.4	3.3	--
28	10.9	7.1	5.1	3.6	2.5	2.9	5.3	11.4	7.9	5.6	4.5	3.4	3.3	--
29	10.9	7.0	5.0	3.5	--	2.9	5.5	11.3	7.9	5.5	4.5	--	3.3	--
30	10.8	6.9	5.0	3.6	--	2.9	5.5	11.3	7.7	5.4	4.4	--	3.2	--
31	10.8	--	4.9	3.5	--	3.0	--	11.2	--	--	4.3	--	3.2	--

Table 19.--Daily mean recorded soil temperature data (degrees Celsius), for site 2--Continued

Depth 2.50 meters														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	10.2	10.9	8.0	6.1	4.7	3.8	3.9	--	--	--	--	--	--	--
2	12.9	10.9	7.8	6.1	4.7	3.8	4.0	--	--	--	--	--	--	--
3	12.9	10.9	7.7	6.0	4.7	3.8	4.0	--	--	--	--	--	--	--
4	12.8	10.8	7.6	5.9	4.7	3.9	4.0	--	--	--	--	--	--	--
5	12.7	--	7.6	5.8	4.6	3.8	4.0	--	--	--	--	--	--	--
6	12.6	--	7.6	5.7	4.5	3.8	4.1	--	--	--	--	--	--	--
7	12.6	--	7.5	5.7	4.5	3.7	4.1	--	--	--	--	--	--	--
8	12.5	--	7.4	5.7	4.4	3.8	4.2	--	--	--	--	--	--	--
9	12.3	--	7.4	5.7	4.4	3.8	4.3	--	--	--	--	--	--	--
10	12.3	--	7.2	5.7	4.3	3.8	4.4	--	--	--	--	--	--	--
11	12.2	--	7.2	5.7	4.3	3.8	4.5	--	--	--	--	--	--	--
12	12.2	--	7.1	5.7	4.3	3.8	4.5	--	--	--	--	--	--	--
13	12.1	--	7.1	5.5	4.3	3.8	4.5	--	--	--	--	--	--	--
14	12.0	9.9	7.1	5.5	4.2	3.8	4.6	--	--	--	--	--	--	--
15	11.9	9.8	7.0	5.4	4.2	3.8	4.8	--	--	--	--	--	--	--
16	11.8	9.8	6.9	5.4	4.2	3.7	4.8	--	--	--	--	--	--	--
17	11.7	9.6	6.7	5.3	4.2	3.8	5.0	--	--	--	--	--	--	--
18	11.6	9.2	6.8	5.3	4.1	3.8	5.0	--	--	--	--	--	--	--
19	11.6	8.5	6.8	5.2	4.1	3.8	5.0	--	--	--	--	--	--	--
20	11.5	8.6	6.7	5.2	4.0	3.7	5.1	--	--	--	--	--	--	--
21	11.5	8.8	6.7	5.2	4.0	3.8	5.1	--	--	--	--	--	--	--
22	11.4	8.7	6.7	5.1	4.0	3.8	5.1	--	--	--	--	--	--	--
23	11.3	8.6	6.6	5.1	3.9	3.8	5.2	--	--	--	--	--	--	--
24	11.3	8.5	6.5	5.0	3.9	3.8	5.2	--	--	--	--	--	--	--
25	11.2	8.5	6.5	5.0	3.9	3.9	5.2	--	--	--	--	--	--	--
26	11.2	8.3	6.5	4.9	3.9	3.9	5.3	--	--	--	--	--	--	--
27	11.1	8.2	6.3	4.9	3.9	3.8	5.3	--	--	--	--	--	--	--
28	11.1	8.1	6.3	4.9	3.8	3.9	5.4	--	--	--	--	--	--	--
29	11.1	8.1	6.2	4.8	--	3.9	5.5	--	--	--	--	--	--	--
30	11.0	8.0	6.2	4.8	--	3.9	5.6	--	--	--	--	--	--	--
31	11.0	--	6.1	4.8	--	4.0	5.6	--	--	--	--	--	--	--

Table 20.---Daily mean recorded soil temperature data (degrees Celsius), for site 4

[--, indicates no data]

Depth 0.05 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	9.6	4.2	-6.5	-8.4	-6.5	-1.3	7.3	--	1.0	-1.3	--	-1.1	-0.5	0
2	7.1	3.1	-11.0	-7.5	-5.2	-.4	7.0	--	1.7	-.7	--	-.1	-.7	-.1
3	7.7	5.2	-7.4	-7.3	-4.4	-.2	5.3	--	3.4	--	-3.6	-1.3	-.5	2.6
4	8.7	3.6	-6.6	-7.2	-3.7	.1	4.0	--	1.2	--	-2.2	-2.7	.1	4.6
5	5.9	--	-6.5	-7.7	-3.7	0	5.1	10.1	4.6	--	-1.4	-.9	.3	5.6
6	7.3	--	-6.7	-9.9	-4.0	-1.5	8.5	9.8	4.6	--	-1.4	-.9	1.2	6.6
7	6.1	--	-6.4	-10.5	-4.3	-5.5	8.7	14.0	2.8	--	--	-.2	1.8	8.3
8	3.9	--	-5.3	-9.0	-6.8	-2.8	7.5	8.8	1.1	--	-4.0	-1.4	-.7	9.7
9	2.7	--	-4.6	-4.2	-9.2	-.3	8.4	7.5	.4	--	-4.9	-.7	-1.4	8.8
10	3.2	--	-5.6	-5.4	-10.7	-.2	10.2	8.7	--	--	-4.7	-.9	-1.0	6.5
11	5.8	--	-8.2	-3.1	-11.8	-.5	11.0	5.8	-1.1	--	-3.1	-1.2	-.2	7.4
12	8.5	--	-9.1	-2.0	-12.1	0	6.2	3.5	--	--	-.4	-.3	-.9	7.7
13	8.3	--	-11.7	-5.6	-10.9	0	2.4	2.9	-3.2	--	-.8	-.8	-.3	7.3
14	6.2	-1.7	-10.7	-6.1	-10.7	.1	1.9	4.1	-2.1	--	-.8	-2.5	0	8.0
15	4.7	-2.5	-9.0	-6.4	-10.2	-.4	1.6	6.6	-1.7	--	-5.3	-2.3	-.2	9.7
16	4.9	-.9	-9.7	-4.6	-8.8	-.1	3.3	8.4	-.8	--	-7.2	-1.8	-.1	11.4
17	7.5	-1.9	-10.6	-3.4	-7.1	.1	5.8	8.5	-2.5	--	-6.7	-1.5	-.1	13.5
18	9.2	-4.6	-12.5	-3.0	-6.8	.3	6.9	9.9	-1.4	--	-6.7	-2.2	-.1	--
19	7.0	-4.8	-10.7	-2.9	-7.4	-.8	7.3	10.9	--	--	-5.0	-1.3	0	--
20	7.8	-6.2	-13.0	-2.2	-7.7	-3.0	5.8	9.7	--	--	-4.6	-.9	1.1	--
21	9.4	-7.9	-9.2	-3.3	-7.8	-1.0	5.9	10.1	-1.5	--	-3.5	-.6	1.1	--
22	12.4	-4.8	-3.5	-7.6	-7.3	1.9	8.3	11.6	-.6	--	-5.2	-.7	1.4	--
23	10.9	-4.6	-4.3	-9.6	-7.1	1.4	13.8	8.7	-2.4	--	-6.8	-.8	1.1	--
24	8.6	-5.1	-14.0	-6.0	-6.8	2.1	12.6	7.4	-.6	--	-6.6	-.6	0	--
25	8.9	-4.3	-15.0	-5.2	-5.8	4.3	7.6	8.4	--	--	-6.7	-.3	.2	--
26	8.2	-3.8	-5.7	-10.8	-2.8	2.2	6.1	7.1	--	--	-4.7	-.2	1.3	--
27	5.3	-4.7	-9.3	-13.1	-.9	4.4	4.7	8.1	-.3	-3.2	-4.0	-.3	0	--
28	9.1	-4.8	-9.8	-9.5	-1.0	9.0	7.7	8.7	-.1	-3.8	-2.7	-.2	-1.1	--
29	8.6	-4.9	-10.8	-10.3	--	10.6	10.2	5.2	-.5	-3.1	-1.1	--	-1.4	--
30	2.7	-4.5	-8.0	-9.1	--	8.3	10.8	7.1	-1.1	-3.7	-1.2	--	-.9	--
31	4.1	--	-9.3	-7.6	--	8.6	--	5.8	--	--	-1.4	--	1.1	--

Table 20.--Daily mean recorded soil temperature data (degrees Celsius), for site 4--Continued

Depth 0.10 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	9.1	5.0	-4.7	-7.8	-6.5	-1.3	7.0	--	2.8	-0.8	--	-1.3	-0.3	0
2	7.5	3.6	-8.1	-7.2	-5.3	-.7	6.9	--	2.6	-.4	--	-.4	-.4	-.1
3	8.0	5.6	-6.8	-6.7	-4.5	-.3	5.6	--	4.2	--	-3.3	-1.3	-.4	1.8
4	8.8	4.0	-5.8	-6.6	-3.8	0	4.3	--	2.1	--	-2.3	-2.4	-.1	3.8
5	6.6	--	-5.5	-7.0	-3.6	-.1	5.0	10.6	4.6	--	-1.5	-1.2	-.1	4.8
6	7.3	--	-5.8	-8.3	-3.8	-.7	7.5	10.0	5.0	--	-1.3	-1.2	0	5.8
7	6.6	--	-5.6	-9.6	-4.0	-4.0	8.2	13.2	3.5	--	--	-.6	.6	7.3
8	4.8	--	-4.7	-8.5	-5.7	-2.9	7.4	9.9	2.3	--	-3.5	-1.1	-.3	8.6
9	3.3	--	-4.1	-5.0	-7.8	-.5	7.9	8.2	1.4	--	-4.2	-.8	-.5	8.5
10	3.5	--	-4.4	-5.2	-9.3	-.2	9.5	9.0	--	--	-4.1	-.9	-.5	6.8
11	5.6	--	-6.2	-3.7	-10.4	-.5	10.5	7.0	.2	--	-3.3	-1.3	-.2	7.1
12	8.3	--	-7.2	-1.9	-10.8	-.1	7.1	4.9	--	--	-.9	-.5	-.5	7.4
13	8.4	--	-9.2	-4.8	-10.2	-.1	3.7	4.0	-1.3	--	-1.1	-.7	-.4	7.5
14	6.5	-.8	-9.2	-5.3	-9.9	0	2.6	4.6	-1.1	--	-.7	-1.9	-.1	7.6
15	5.4	-1.4	-8.0	-5.8	-9.6	-.2	2.0	6.5	-1.0	--	-3.8	-2.0	-.2	9.0
16	5.1	-.5	-8.2	-4.7	-8.5	-.2	3.1	8.2	-.6	--	-6.1	-1.7	-.2	10.5
17	7.3	-1.0	-8.9	-3.5	-7.1	0	5.3	8.5	-1.4	--	-6.0	-1.4	-.1	12.2
18	9.1	-2.6	-10.3	-2.9	-6.5	.1	6.6	9.5	-.9	--	-6.3	-1.9	-.1	--
19	7.0	-2.8	-9.5	-2.8	-6.9	-.2	7.0	10.6	--	--	-4.6	-1.3	-.1	--
20	7.7	-4.2	-10.9	-2.3	-7.2	-2.3	6.0	9.9	--	--	-4.4	-.9	.1	--
21	9.0	-5.9	-9.0	-2.7	-7.4	-1.2	5.7	10.0	-1.2	--	-3.4	-.7	.2	--
22	11.6	-4.1	-4.7	-6.1	-7.0	.5	7.4	11.3	-.5	--	-4.4	-.6	.7	--
23	11.0	-3.6	-3.7	-8.3	-6.7	.9	12.1	9.6	-1.6	--	-5.8	-.8	.6	--
24	9.1	-3.8	-10.7	-5.9	-6.4	1.4	12.1	8.2	-.8	--	-5.8	-.7	0	--
25	8.8	-3.5	-12.5	-4.9	-5.8	3.3	8.4	8.7	--	--	-6.1	-.4	.1	--
26	8.7	-3.0	-6.6	-8.7	-3.5	2.1	6.5	7.7	--	--	-4.8	-.3	.9	--
27	6.1	-3.5	-7.9	-11.6	-1.0	3.5	5.3	8.2	-.4	-3.0	-4.0	-.3	.2	--
28	8.3	-3.7	-8.8	-9.1	-1.0	7.4	7.0	9.0	-.3	-3.5	-3.0	-.2	-.3	--
29	9.3	-3.9	-9.6	-9.3	--	9.3	9.5	6.3	-.3	-2.9	-1.5	--	-.5	--
30	4.2	-3.7	-7.8	-8.7	--	8.0	10.4	7.1	-.6	-3.3	-1.3	--	-.6	--
31	4.6	--	-8.3	-7.4	--	8.2	--	6.9	--	--	-1.6	--	.1	--

Table 20.--Daily mean recorded soil temperature data (degrees Celsius), for site 4--Continued

Depth 0.15 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	8.6	5.4	-3.8	-7.4	-6.3	-1.3	6.8	--	3.9	-0.5	--	-1.5	-0.4	-0.1
2	7.8	4.0	-6.6	-6.9	-5.3	-.9	6.9	--	3.2	-.3	--	-.5	-.4	-.2
3	8.2	5.7	-6.3	-6.4	-4.5	-.5	5.8	--	4.6	--	-3.2	-1.3	-.4	1.4
4	8.8	4.4	-5.4	-6.3	-3.9	-.1	4.5	--	2.8	--	-2.4	-2.3	-.2	3.3
5	7.2	--	-5.0	-6.5	-3.6	-.1	5.0	10.9	4.6	--	-1.6	-1.4	-.1	4.4
6	7.3	--	-5.2	-7.5	-3.7	-.4	6.9	10.1	5.2	--	-1.3	-1.3	-.2	5.4
7	7.1	--	-5.1	-8.9	-3.8	-2.9	7.9	12.7	4.0	--	--	-.8	-.1	6.7
8	5.5	--	-4.4	-8.1	-5.0	-2.7	7.3	10.4	2.9	--	-3.2	-1.1	-.3	7.9
9	3.8	--	-3.9	-5.5	-6.9	-.6	7.5	8.7	1.9	--	-3.9	-1.0	-.4	8.2
10	3.7	--	-3.9	-5.1	-8.3	-.3	9.0	9.2	--	--	-3.9	-.9	-.4	6.8
11	5.5	--	-5.2	-4.1	-9.4	-.4	10.1	7.7	.8	--	-3.3	-1.3	-.2	6.9
12	8.1	--	-6.2	-2.1	-10.0	-.2	7.5	5.7	--	--	-1.3	-.6	-.3	7.2
13	8.4	--	-7.9	-4.2	-9.6	-.1	4.5	4.7	-.4	--	-1.2	-.7	-.3	7.5
14	6.7	-.3	-8.3	-4.7	-9.2	0	3.1	4.9	-.5	--	-.8	-1.6	-.2	7.3
15	5.8	-.8	-7.3	-5.3	-9.1	-.1	2.4	6.6	-.5	--	-3.2	-1.9	-.3	8.5
16	5.3	-.3	-7.4	-4.6	-8.2	-.1	3.1	8.0	-.3	--	-5.5	-1.7	-.2	9.9
17	7.2	-.5	-8.0	-3.6	-7.0	0	5.0	8.4	-.8	--	-5.6	-1.4	-.2	11.5
18	8.8	-1.7	-9.1	-2.9	-6.4	.1	6.4	9.4	-.7	--	-6.0	-1.8	-.2	--
19	7.1	-2.1	-8.8	-2.8	-6.6	-.1	6.8	10.3	--	--	-4.4	-1.4	-.2	--
20	7.6	-3.2	-9.7	-2.4	-6.8	-1.7	6.1	10.0	--	--	-4.3	-1.0	-.1	--
21	8.8	-4.7	-8.7	-2.4	-7.0	-1.1	5.6	9.9	-1.0	--	-3.4	-.8	-.1	--
22	11.1	-3.7	-5.3	-5.1	-6.7	.1	6.9	11.1	-.4	--	-4.1	-.7	.1	--
23	10.9	-3.1	-3.7	-7.3	-6.5	.6	11.0	10.0	-1.1	--	-5.4	-.8	.2	--
24	9.4	-3.2	-8.6	-5.7	-6.2	1.1	11.7	8.6	-.7	--	-5.4	-.7	-.1	--
25	8.8	-3.0	-10.8	-4.7	-5.7	2.7	8.9	8.9	--	--	-5.8	-.5	-.1	--
26	9.0	-2.7	-7.1	-7.4	-4.0	2.1	6.8	8.0	--	--	-4.8	-.4	.5	--
27	6.6	-3.0	-7.1	-10.3	-1.3	3.0	5.6	8.3	-.4	-2.9	-4.0	-.4	.2	--
28	8.0	-3.2	-8.2	-8.7	-1.1	6.5	6.6	9.1	-.3	-3.3	-3.1	-.3	-.2	--
29	9.5	-3.3	-8.7	-8.6	--	8.5	9.0	6.9	-.3	-2.8	-1.8	--	-.3	--
30	5.1	-3.2	-7.7	-8.3	--	7.7	10.1	7.2	-.3	-3.1	-1.5	--	-.4	--
31	5.0	--	-7.7	-7.2	--	8.0	--	7.5	--	--	-1.7	--	-.1	--

Table 20.--Daily mean recorded soil temperature data (degrees Celsius), for site 4--Continued

Depth 0.20 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	8.5	5.8	-3.1	-7.0	-6.2	-1.4	6.6	--	4.9	-0.2	--	-1.5	-0.5	-0.1
2	8.0	4.5	-5.1	-6.6	-5.2	-1.1	6.9	--	3.9	-.1	--	-.6	-.5	-.2
3	8.4	5.8	-5.7	-6.1	-4.5	-.8	5.9	--	5.0	--	-2.9	-1.2	-.4	1.0
4	8.9	4.8	-5.0	-6.0	-3.9	-.3	4.7	--	3.4	--	-2.4	-2.0	-.3	2.9
5	7.7	--	-4.5	-6.1	-3.5	-.2	4.9	11.1	4.7	--	-1.6	-1.4	-.3	4.0
6	7.4	--	-4.6	-6.7	-3.5	-.3	6.4	10.3	5.4	--	-1.2	-1.3	-.3	4.9
7	7.5	--	-4.5	-8.1	-3.6	-1.9	7.6	12.2	4.5	--	--	-.8	-.3	6.1
8	6.2	--	-4.1	-7.7	-4.4	-2.4	7.1	10.9	3.5	--	-2.8	-.9	-.3	7.3
9	4.5	--	-3.6	-5.7	-5.9	-.8	7.2	9.2	2.5	--	-3.4	-1.1	-.4	7.8
10	4.2	--	-3.5	-5.0	-7.2	-.4	8.5	9.5	--	--	-3.5	-1.0	-.4	6.8
11	5.5	--	-4.4	-4.3	-8.3	-.4	9.7	8.3	1.4	--	-3.2	-1.3	-.2	6.7
12	7.8	--	-5.3	-2.5	-9.0	-.2	7.9	6.5	--	--	-1.6	-.8	-.3	7.0
13	8.3	--	-6.6	-3.7	-8.9	-.1	5.2	5.4	.3	--	-1.3	-.8	-.3	7.4
14	7.0	0	-7.3	-4.2	-8.6	0	3.7	5.4	.1	--	-.8	-1.3	-.2	7.0
15	6.2	-.2	-6.7	-4.8	-8.5	-.1	2.8	6.6	0	--	-2.4	-1.7	-.3	8.1
16	5.6	.1	-6.6	-4.4	-7.9	-.1	3.0	8.0	.1	--	-4.6	-1.6	-.3	9.4
17	7.1	0	-7.2	-3.6	-6.9	0	4.8	8.4	-.2	--	-5.0	-1.4	-.3	10.7
18	8.3	-1.0	-8.0	-2.9	-6.2	.1	6.1	9.3	-.4	--	-5.4	-1.6	-.3	--
19	7.2	-1.8	-8.0	-2.8	-6.3	0	6.5	10.1	--	--	-4.0	-1.4	-.3	--
20	7.6	-2.5	-8.6	-2.4	-6.4	-1.1	6.1	10.1	--	--	-4.0	-1.1	-.2	--
21	8.6	-3.5	-8.3	-2.2	-6.6	-.8	5.5	9.9	-.6	--	-3.2	-.8	-.2	--
22	10.6	-3.1	-5.7	-4.2	-6.4	0	6.6	10.9	-.4	--	-3.6	-.7	-.2	--
23	10.8	-2.6	-3.8	-6.2	-6.2	.3	10.0	10.3	-.6	--	-4.7	-.8	-.1	--
24	9.6	-2.6	-6.9	-5.4	-6.0	.7	11.2	9.0	-.5	--	-4.8	-.7	-.2	--
25	8.8	-2.6	-9.2	-4.5	-5.6	2.1	9.2	9.0	--	--	-5.2	-.6	-.2	--
26	9.1	-2.3	-7.2	-6.1	-4.3	1.9	7.0	8.4	--	--	-4.6	-.5	.1	--
27	7.1	-2.4	-6.5	-9.0	-1.8	2.5	6.0	8.5	-.3	-2.7	-3.9	-.4	.1	--
28	7.8	-2.7	-7.5	-8.1	-1.3	5.5	6.3	9.2	-.2	-3.0	-3.1	-.4	-.1	--
29	9.5	-2.8	-7.9	-7.9	--	7.6	8.5	7.5	-.1	-2.6	-2.0	--	-.2	--
30	6.0	-2.8	-7.4	-7.8	--	7.3	9.7	7.4	-.1	-2.8	-1.5	--	-.3	--
31	5.4	--	-7.2	-6.9	--	7.7	--	7.9	--	--	-1.6	--	-.2	--

Table 20.--Daily mean recorded soil temperature data (degrees Celsius), for site 4--Continued

Depth 0.25 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	8.6	6.1	-2.5	-6.6	-5.9	-1.5	6.5	--	5.6	0	--	-1.5	-0.6	-0.2
2	8.3	5.0	-4.0	-6.3	-5.1	-1.3	6.8	--	4.4	.1	--	-.8	-.5	-.2
3	8.6	5.9	-5.0	-5.8	-4.4	-1.0	6.0	--	5.3	--	-2.7	-1.2	-.5	.7
4	9.0	5.2	-4.5	-5.7	-3.9	-.5	4.9	--	4.0	--	-2.3	-1.8	-.4	2.6
5	8.2	--	-4.1	-5.7	-3.5	-.3	4.9	11.2	4.8	--	-1.6	-1.5	-.4	3.6
6	7.6	--	-4.1	-6.2	-3.4	-.4	5.9	10.5	5.6	--	-1.2	-1.3	-.5	4.5
7	7.9	--	-4.1	-7.4	-3.4	-1.3	7.2	11.9	4.9	--	--	-.9	-.5	5.7
8	6.8	--	-3.7	-7.3	-4.0	-2.0	7.0	11.2	4.0	--	-2.5	-1.0	-.4	6.9
9	5.1	--	-3.3	-5.7	-5.2	-.9	7.0	9.6	3.0	--	-3.0	-1.3	-.5	7.5
10	4.7	--	-3.1	-4.9	-6.4	-.5	8.1	9.7	--	--	-3.2	-1.1	-.5	6.8
11	5.6	--	-3.7	-4.2	-7.5	-.4	9.3	8.8	1.9	--	-3.1	-1.2	-.3	6.5
12	7.6	--	-4.5	-2.7	-8.1	-.3	8.0	7.1	--	--	-1.8	-.9	-.4	6.8
13	8.3	--	-5.7	-3.4	-8.2	-.2	5.7	5.9	.8	--	-1.4	-.8	-.3	7.2
14	7.4	.5	-6.4	-3.9	-8.0	0	4.1	5.8	.6	--	-.9	-1.2	-.3	--
15	6.6	.3	-6.1	-4.4	-8.0	0	3.1	6.7	.4	--	-2.0	-1.6	-.4	--
16	5.9	.4	-6.0	-4.2	-7.5	-.1	3.1	7.9	.5	--	-4.0	-1.6	-.3	--
17	7.1	.4	-6.6	-3.5	-6.7	0	4.6	8.4	.1	--	-4.5	-1.4	-.3	--
18	7.8	-.6	-7.1	-2.9	-6.0	.1	5.9	9.2	-.1	--	-5.0	-1.5	-.3	--
19	7.3	-1.8	-7.3	-2.7	-6.0	0	6.3	10.0	--	--	-3.8	-1.4	-.3	--
20	7.6	-2.1	-7.7	-2.4	-6.1	-.7	6.1	10.1	--	--	-3.8	-1.1	-.3	--
21	8.5	-2.6	-7.7	-2.1	-6.2	-.6	5.5	9.9	-.3	--	-3.1	-.9	-.3	--
22	10.2	-2.6	-5.7	-3.5	-6.1	-.1	6.3	10.8	-.2	--	-3.4	-.8	-.3	--
23	10.7	-2.2	-3.9	-5.3	-5.9	.2	9.2	10.5	-.2	--	-4.4	-.8	-.3	--
24	9.8	-2.1	-5.8	-5.0	-5.7	.4	10.7	9.2	-.3	--	-4.4	-.8	-.3	--
25	8.9	-2.1	-8.0	-4.2	-5.4	1.5	9.3	9.1	--	--	-4.9	-.7	-.3	--
26	9.2	-1.9	-7.0	-5.3	-4.4	1.8	7.2	8.6	--	--	-4.5	-.6	-.3	--
27	7.6	-2.0	-6.1	-7.8	-2.2	2.1	6.3	8.6	-.1	-2.5	-3.8	-.5	0	--
28	7.8	-2.2	-6.8	-7.5	-1.5	4.6	6.2	9.2	0	-2.7	-3.2	-.5	0	--
29	9.4	-2.3	-7.2	-7.2	--	6.8	8.1	7.9	.1	-2.5	-2.1	--	-.2	--
30	6.7	-2.3	-7.0	-7.3	--	7.0	9.4	7.6	.1	-2.5	-1.6	--	-.2	--
31	5.8	--	-6.7	-6.5	--	7.3	--	8.1	--	--	-1.7	--	-.1	--

Table 20.--Daily mean recorded soil temperature data (degrees Celsius), for site 4--Continued

Depth 0.30 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	9.1	6.4	-1.9	-6.1	-5.6	-1.7	6.3	--	6.3	0.2	--	-1.7	-0.6	-0.2
2	8.6	5.6	-3.0	-5.9	-5.0	-1.5	6.6	--	5.0	.4	--	-1.0	-.6	-.1
3	8.9	6.1	-4.2	-5.5	-4.3	-1.2	6.0	--	5.6	--	-2.5	-1.4	-.6	.6
4	9.2	5.6	-3.9	-5.3	-3.8	-.6	5.0	--	4.6	--	-2.2	-1.9	-.6	2.3
5	8.6	--	-3.5	-5.3	-3.4	-.5	4.9	11.4	5.0	--	-1.6	-1.7	-.6	3.3
6	8.0	--	-3.5	-5.6	-3.2	-.4	5.6	10.8	5.7	--	-1.2	-1.5	-.5	4.1
7	8.2	--	-3.5	-6.6	-3.2	-.9	6.9	11.7	5.3	--	--	-1.1	-.5	5.2
8	7.5	--	-3.3	-6.7	-3.6	-1.6	6.8	11.4	4.5	--	-2.2	-1.2	-.5	6.3
9	5.9	--	-2.9	-5.6	-4.5	-.9	6.8	10.1	3.5	--	-2.6	-1.4	-.5	7.1
10	5.3	--	-2.7	-4.8	-5.6	-.6	7.7	9.9	--	--	-2.9	-1.1	-.5	6.7
11	5.9	--	-3.1	-4.2	-6.5	-.4	8.8	9.2	2.4	--	-2.8	-1.2	-.4	6.3
12	7.5	--	-3.7	-2.9	-7.2	-.3	8.1	7.7	--	--	-1.8	-1.0	-.4	6.6
13	8.3	--	-4.7	-3.1	-7.5	-.2	6.1	6.6	1.4	--	-1.4	-.9	-.4	7.0
14	7.7	1.0	-5.3	-3.5	-7.4	0	4.5	6.2	1.1	--	-1.1	-1.1	-.3	--
15	7.1	.8	-5.3	-3.9	-7.4	0	3.5	6.9	.9	--	-1.8	-1.4	-.4	--
16	6.3	.9	-5.3	-3.9	-7.1	0	3.2	7.9	.9	--	-3.6	-1.5	-.4	--
17	7.1	.9	-5.9	-3.4	-6.4	.1	4.4	8.5	.4	--	-4.2	-1.4	-.4	--
18	7.5	0	-6.1	-2.8	-5.8	.2	5.6	9.1	.3	--	-4.6	-1.4	-.4	--
19	7.4	-1.2	-6.5	-2.6	-5.6	.1	6.1	9.9	--	--	-3.6	-1.3	-.4	--
20	7.7	-1.3	-6.8	-2.3	-5.7	-.3	6.1	10.1	--	--	-3.8	-1.1	-.3	--
21	8.4	-1.7	-7.0	-2.0	-5.8	-.4	5.5	10.0	0	--	-3.0	-.9	-.3	--
22	9.8	-1.9	-5.5	-2.9	-5.7	-.1	6.1	10.6	.1	--	-3.4	-.8	-.3	--
23	10.5	-1.6	-3.9	-4.4	-5.6	.1	8.5	10.6	.1	--	-4.1	-.8	-.4	--
24	9.9	-1.6	-4.9	-4.5	-5.4	.3	10.1	9.5	0	--	-4.2	-.8	-.3	--
25	9.1	-1.6	-6.7	-3.9	-5.1	1.1	9.4	9.3	--	--	-4.7	-.7	-.3	--
26	9.3	-1.5	-6.5	-4.5	-4.4	1.6	7.4	8.9	--	--	-4.4	-.7	-.4	--
27	8.1	-1.5	-5.6	-6.6	-2.6	1.8	6.5	8.7	.2	-2.3	-3.8	-.6	0	--
28	7.9	-1.7	-6.1	-6.8	-1.8	3.9	6.1	9.3	.2	-2.4	-3.3	-.6	0	--
29	9.3	-1.8	-6.5	-6.6	--	6.0	7.7	8.3	.3	-2.3	-2.4	--	-.1	--
30	7.4	-1.8	-6.4	-6.7	--	6.5	9.0	7.9	.3	-2.3	-1.9	--	-.2	--
31	6.4	--	-6.2	-6.1	--	7.0	--	8.3	--	--	-1.8	--	-.1	--

Table 20.--Daily mean recorded soil temperature data (degrees Celsius), for site 4--Continued

Depth 0.40 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	9.1	7.0	-1.0	-5.3	-5.0	-1.8	6.0	--	7.2	0.7	--	-2.1	-0.6	-0.1
2	9.2	6.4	-1.7	-5.1	-4.6	-1.6	6.3	--	6.0	.8	--	-1.5	-.6	0
3	9.3	6.4	-2.8	-4.8	-4.0	-1.3	6.0	--	6.0	--	-2.0	-1.8	-.6	.5
4	9.5	6.3	-2.8	-4.6	-3.6	-.8	5.2	--	5.4	--	-1.8	-2.1	-.8	1.9
5	9.3	--	-2.6	-4.6	-3.2	-.6	4.8	11.6	5.4	--	-1.4	-2.0	-.8	2.8
6	8.6	--	-2.5	-4.7	-3.0	-.5	5.2	11.2	6.0	--	-1.1	-1.9	-.5	3.6
7	8.7	--	-2.6	-5.4	-2.8	-.6	6.4	11.6	5.8	--	--	-1.6	-.5	4.5
8	8.3	--	-2.5	-5.7	-3.0	-1.1	6.6	11.7	5.2	--	-1.6	-1.6	-.5	5.6
9	7.1	--	-2.3	-5.1	-3.6	-.9	6.5	10.6	4.3	--	-2.0	-1.3	-.5	6.5
10	6.3	--	-2.0	-4.4	-4.4	-.6	7.2	10.3	--	--	-2.3	-1.1	-.5	6.4
11	6.4	--	-2.2	-3.9	-5.2	-.4	8.2	9.8	3.2	--	-2.3	-1.1	-.5	6.0
12	7.4	--	-2.6	-3.0	-5.9	-.3	8.0	8.6	--	--	-1.7	-1.0	-.4	6.3
13	8.2	--	-3.3	-2.7	-6.2	-.1	6.5	7.5	2.2	--	-1.5	-.9	-.4	6.7
14	8.1	1.8	-3.8	-3.0	-6.3	0	5.1	7.0	1.9	--	-1.6	-.9	-.3	7.4
15	7.7	1.7	-4.1	-3.3	-6.4	.1	4.1	7.3	1.7	--	-1.9	-1.2	-.4	8.2
16	7.0	1.7	-4.2	-3.4	-6.2	.1	3.5	8.0	1.6	--	-3.1	-1.3	-.4	8.6
17	7.3	1.7	-4.5	-3.0	-5.8	.2	4.3	8.6	.9	--	-3.8	-1.2	-.3	8.7
18	7.5	1.0	-4.7	-2.6	-5.3	.2	5.3	9.1	.9	--	-4.2	-1.2	-.3	--
19	7.7	0	-5.1	-2.3	-5.1	.2	5.8	9.7	--	--	-3.5	-1.2	-.3	--
20	7.9	-.2	-5.4	-2.1	-5.1	0	6.0	10.1	--	--	-3.7	-1.0	-.2	--
21	8.3	-.4	-5.7	-1.8	-5.1	0	5.5	10.0	.7	--	-3.1	-.8	-.2	--
22	9.3	-.8	-4.8	-2.2	-5.1	0	5.9	10.5	.7	--	-3.4	-.8	-.2	--
23	10.2	-.7	-3.7	-3.2	-5.0	0	7.5	10.7	.7	--	-3.9	-.7	-.2	--
24	10.0	-.7	-3.8	-3.6	-4.8	.2	9.2	9.9	.6	--	-4.0	-.7	-.2	--
25	9.4	-.7	-5.0	-3.3	-4.7	.8	9.2	9.5	--	--	-4.5	-.7	-.2	--
26	9.4	-.6	-5.4	-3.6	-4.2	1.4	7.6	9.2	--	--	-4.4	-.7	-.3	--
27	8.7	-.7	-4.9	-4.9	-3.0	1.5	6.8	9.0	.7	-1.9	-4.0	-.6	.1	--
28	8.2	-.8	-5.0	-5.6	-2.1	3.0	6.1	9.4	.7	-1.9	-3.6	-.6	.1	--
29	9.1	-.9	-5.4	-5.5	--	5.0	7.3	8.8	.7	-1.8	-2.8	--	.1	--
30	8.3	-1.0	-5.4	-5.6	--	5.9	8.4	8.3	.7	-1.8	-2.4	--	0	--
31	7.2	--	-5.3	-5.4	--	6.4	--	8.5	--	--	-2.2	--	.1	--

Table 20.--Daily mean recorded soil temperature data (degrees Celsius), for site 4--Continued

Depth 0.50 meter														
Period: October 1985-April 1986								Period: October 1986-April 1987						
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	9.8	7.5	-0.2	-4.4	-4.3	-1.9	5.7	--	8.0	1.5	--	-0.3	-0.3	0.7
2	9.7	7.1	-.6	-4.3	-4.0	-1.7	5.9	--	6.9	1.4	--	-.3	-.3	.6
3	9.7	6.9	-1.5	-4.1	-3.6	-1.4	5.8	--	6.7	--	-1.1	0	-.2	.9
4	9.8	6.8	-1.6	-3.9	-3.3	-1.0	5.2	--	6.2	--	-1.0	-.1	.2	1.7
5	9.7	--	-1.6	-3.8	-2.9	-.7	4.8	12.0	6.0	--	-.8	-.2	0	2.5
6	9.2	--	-1.6	-3.9	-2.6	-.6	4.9	11.6	6.4	--	-.5	-.1	-.1	3.2
7	9.2	--	-1.7	-4.3	-2.5	-.5	5.9	11.7	6.3	--	--	0	-.2	4.0
8	8.9	--	-1.7	-4.6	-2.5	-.7	6.2	11.9	5.9	--	-.8	.2	-.1	5.0
9	8.0	--	-1.5	-4.3	-2.8	-.7	6.2	11.2	5.1	--	-1.0	-.8	-.1	5.8
10	7.3	--	-1.3	-3.9	-3.4	-.5	6.7	10.7	--	--	-1.3	-.5	-.1	6.0
11	7.1	--	-1.4	-3.4	-4.0	-.3	7.6	10.4	4.1	--	-1.4	-.5	.2	5.8
12	7.6	--	-1.6	-2.9	-4.6	-.2	7.7	9.5	--	--	-1.0	-.6	.1	6.0
13	8.3	--	-2.1	-2.4	-5.0	-.1	6.8	8.4	3.1	--	-.5	-.5	.2	6.4
14	8.5	2.6	-2.5	-2.5	-5.2	.1	5.6	7.8	2.8	--	.3	-.4	.3	--
15	8.2	2.5	-2.9	-2.6	-5.3	.2	4.5	7.8	2.5	--	.1	-.6	.2	--
16	7.7	2.5	-3.1	-2.7	-5.3	.2	3.8	8.3	2.4	--	-.6	-.7	.3	--
17	7.6	2.4	-3.2	-2.6	-5.1	.3	4.3	8.8	2.3	--	-1.2	-.6	.3	8.7
18	7.8	1.8	-3.5	-2.2	-4.8	.4	5.0	9.2	2.0	--	-1.6	-.6	.3	--
19	8.0	1.0	-3.7	-2.0	-4.5	.4	5.5	9.7	--	--	-1.6	-.6	.3	--
20	8.1	.8	-4.0	-1.8	-4.4	.3	5.8	10.1	--	--	-1.5	-.5	.4	--
21	8.4	.8	-4.3	-1.6	-4.4	.2	5.5	10.1	1.6	--	-1.3	-.4	.5	--
22	9.0	.4	-3.9	-1.7	-4.4	.1	5.7	10.4	1.6	--	-1.1	-.4	.3	--
23	9.8	.2	-3.3	-2.2	-4.4	0	6.8	10.7	1.6	--	-1.6	-.2	.3	--
24	10.0	.2	-3.0	-2.7	-4.4	.3	8.3	10.2	1.5	--	-1.4	-.3	.4	--
25	9.6	.2	-3.7	-2.6	-4.1	.7	8.7	9.8	--	--	-1.9	-.3	.4	--
26	9.5	.2	-4.2	-2.8	-3.8	1.2	7.7	9.6	--	--	-2.1	-.3	.6	--
27	9.2	.1	-4.0	-3.6	-3.1	1.3	7.0	9.3	1.5	-1.0	-1.9	-.2	.6	--
28	8.6	.1	-4.0	-4.3	-2.3	2.4	6.3	9.6	1.5	-1.0	-1.5	-.2	.7	--
29	9.0	-.1	-4.3	-4.4	--	4.0	6.9	9.3	1.6	-1.0	-1.1	--	.6	--
30	8.8	-.1	-4.4	-4.6	--	5.1	7.9	8.7	1.5	-.9	-.6	--	.6	--
31	7.9	--	-4.4	-4.5	--	5.7	--	8.8	--	--	-.4	--	.6	--

Table 20.--Daily mean recorded soil temperature data (degrees Celsius), for site 4--Continued

Depth 0.60 meter														
Period: October 1985-April 1986								Period: October 1986-April 1987						
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	10.5	8.0	0.5	-3.5	-3.6	-2.0	5.4	--	8.6	1.9	--	-0.2	-0.2	0.8
2	10.2	7.7	.3	-3.4	-3.4	-1.8	5.6	--	7.6	1.9	--	-.2	-.2	.7
3	10.2	7.5	-.3	-3.4	-3.1	-1.5	5.6	--	7.2	--	-0.6	-.1	-.2	.9
4	10.2	7.4	-.7	-3.2	-2.9	-.9	5.3	--	6.9	--	-.6	-.1	.2	1.6
5	10.1	--	-.7	-3.1	-2.5	-.8	4.9	12.2	6.6	--	-.5	-.1	.1	2.3
6	9.8	--	-.8	-3.1	-2.3	-.6	4.9	11.9	6.7	--	-.2	-.1	0	2.9
7	9.7	--	-.8	-3.3	-2.2	-.5	5.6	11.8	6.8	--	--	0	0	3.6
8	9.4	--	-.8	-3.7	-2.1	-.5	6.0	12.0	6.4	--	-.4	.1	.1	4.5
9	8.8	--	-.8	-3.9	-2.3	-.4	6.1	11.5	5.8	--	-.5	-.6	.1	5.2
10	8.2	--	-.8	-3.2	-2.6	-.3	6.4	11.1	--	--	-.7	-.4	.1	5.5
11	7.9	--	-.7	-3.0	-3.1	-.1	7.0	10.8	4.8	--	-.8	-.3	.4	5.5
12	8.0	--	-1.0	-2.6	-3.6	0	7.4	10.1	--	--	-.6	-.5	.3	5.7
13	8.6	--	-1.2	-2.2	-4.1	.1	6.8	9.2	3.9	--	-.3	-.4	.4	6.0
14	8.8	3.5	-1.7	-2.0	-4.3	.2	5.9	8.5	3.6	--	.4	-.3	.5	--
15	8.7	3.4	-1.8	-2.1	-4.3	.3	4.9	8.4	3.3	--	.2	-.4	.4	--
16	8.3	3.2	-2.0	-2.2	-4.4	.3	4.2	8.6	3.1	--	0	-.5	.4	--
17	8.1	3.2	-2.2	-2.1	-4.3	.5	4.4	9.0	2.9	--	-.4	-.4	.5	8.0
18	8.3	2.5	-2.4	-1.9	-4.1	.5	4.9	9.3	2.6	--	-.8	-.4	.5	--
19	8.4	2.1	-2.7	-1.7	-3.9	.5	5.3	9.7	--	--	-1.0	-.4	.4	--
20	8.4	1.9	-2.9	-1.5	-3.9	.5	5.7	10.1	--	--	-.9	-.3	.5	--
21	8.6	1.8	-3.1	-1.4	-3.8	.5	5.5	10.2	2.2	--	-.8	-.3	.6	--
22	9.0	1.3	-3.3	-1.3	-3.9	.4	5.6	10.4	2.1	--	-.7	-.3	.5	--
23	9.7	1.1	-2.8	-1.5	-3.7	.3	6.3	10.7	2.1	--	-1.0	-.1	.5	--
24	9.9	1.1	-2.4	-2.1	-3.7	.6	7.6	10.4	2.0	--	-.9	-.2	.5	--
25	9.8	1.2	-2.7	-2.3	-3.6	.7	8.2	10.1	--	--	-1.3	-.2	.5	--
26	9.7	.8	-3.3	-2.2	-3.4	1.1	7.7	9.9	--	--	-1.6	-.2	.7	--
27	9.5	.9	-3.3	-2.6	-3.0	1.3	7.1	9.6	2.0	-.4	-1.5	-.2	.7	--
28	9.1	.9	-3.3	-3.2	-2.3	2.1	6.4	9.7	2.0	-.5	-1.2	-.2	.8	--
29	9.2	.8	-3.4	-3.5	--	3.3	6.7	9.6	2.1	-.5	-.9	--	.7	--
30	9.2	.7	-3.6	-3.6	--	4.5	7.5	9.1	2.0	-.5	-.5	--	.7	--
31	8.5	--	-3.5	-3.7	--	5.1	--	9.1	--	--	-.4	--	.7	--

Table 20.--Daily mean recorded soil temperature data (degrees Celsius), for site 4--Continued

Depth 0.80 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	11.5	8.9	2.0	-1.8	-2.1	-1.6	4.6	--	9.3	2.9	--	0.2	0.3	1.2
2	11.2	8.6	1.8	-1.8	-2.0	-1.4	4.9	--	8.8	2.9	--	.2	.3	1.0
3	11.0	8.4	1.5	-1.8	-1.9	-1.2	5.1	--	8.3	--	.4	.2	.4	1.2
4	10.9	8.2	1.1	-1.8	-1.8	-.7	5.0	--	8.0	--	.4	.3	.7	1.6
5	10.8	--	1.0	-1.7	-1.6	-.5	4.8	12.7	7.7	--	.4	.3	.6	2.0
6	10.7	--	.9	-1.7	-1.4	-.3	4.7	12.5	7.6	--	.6	.3	.5	2.5
7	10.5	--	.8	-1.7	-1.3	-.2	5.0	12.2	7.5	--	--	.4	.5	3.0
8	10.2	--	.7	-2.0	-1.3	-.1	5.4	12.2	7.3	--	.5	.4	.5	3.7
9	10.0	--	.7	-2.2	-1.2	0	5.6	12.1	7.0	--	.5	-.1	.6	4.3
10	9.5	--	.6	-1.8	-1.4	0	5.8	11.7	--	--	.4	0	.5	4.7
11	9.1	--	.7	-1.7	-1.6	.2	6.2	11.4	6.1	--	.3	.1	.8	5.0
12	9.0	--	.5	-1.6	-1.9	.3	6.6	11.0	--	--	.3	0	.7	5.1
13	9.1	--	.4	-1.3	-2.2	.4	6.6	10.4	5.3	--	.5	0	.8	5.3
14	9.3	5.0	.2	-1.1	-2.5	.5	6.1	9.8	5.1	--	1.0	.1	.9	--
15	9.3	4.8	0	-1.0	-2.6	.6	5.4	9.4	4.7	--	.8	.1	.8	--
16	9.2	4.7	-.2	-1.0	-2.7	.6	4.8	9.4	4.5	--	.8	.1	.8	--
17	9.0	4.6	-.4	-1.0	-2.8	.8	4.7	9.5	4.2	--	.8	.1	.9	7.1
18	9.0	3.9	-.6	-1.0	-2.8	.9	4.8	9.7	3.9	--	.6	.1	.9	--
19	9.0	3.5	-.8	-.8	-2.7	.9	5.1	9.9	--	--	.4	.1	.8	--
20	9.0	3.4	-1.0	-.7	-2.6	.8	5.4	10.2	--	--	.4	.2	.9	--
21	9.1	3.4	-1.1	-.6	-2.5	.9	5.5	10.3	3.4	--	.3	.2	.9	--
22	9.2	3.0	-1.3	-.5	-2.6	.8	5.5	10.5	3.3	--	.3	.2	.8	--
23	9.6	2.7	-1.3	-.5	-2.5	.6	5.7	10.7	3.2	--	.2	.3	.8	--
24	9.9	2.7	-1.1	-.8	-2.5	.9	6.5	10.7	3.2	--	.6	.3	.9	--
25	10.0	2.7	-1.0	-1.0	-2.5	1.0	7.2	10.5	--	--	.2	.3	.9	--
26	9.9	2.3	-1.3	-1.0	-2.4	1.2	7.3	10.3	--	--	-.1	.3	1.1	--
27	9.8	2.4	-1.6	-1.1	-2.2	1.3	7.0	10.1	3.0	.6	-.2	.3	1.0	--
28	9.6	2.3	-1.6	-1.4	-1.9	1.8	6.6	10.0	3.0	.6	-.1	.3	1.0	--
29	9.5	2.2	-1.6	-1.8	--	2.5	6.5	10.0	3.0	.6	-.1	--	1.0	--
30	9.5	2.1	-1.8	-1.9	--	3.4	6.9	9.8	3.0	.5	0	--	1.0	--
31	9.3	--	-1.8	-2.0	--	4.1	--	9.6	--	--	.1	--	1.0	--

Table 20.--Daily mean recorded soil temperature data (degrees Celsius), for site 4--Continued

Depth 1.00 meter														
Period: October 1985-April 1986								Period: October 1986-April 1987						
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	12.2	9.5	3.3	-0.3	-0.7	-0.9	3.9	--	9.9	3.9	--	0.9	0.9	1.6
2	12.0	9.3	3.2	-.3	-.7	-.8	4.2	--	9.6	3.9	--	.9	.9	1.4
3	11.8	9.1	3.0	-.4	-.7	-.6	4.5	--	9.3	--	1.5	.9	1.0	1.6
4	11.6	8.9	2.7	-.4	-.7	-.2	4.6	--	8.9	--	1.5	1.0	1.3	1.9
5	11.5	--	2.6	-.4	-.5	0	4.6	13.1	8.7	--	1.4	1.0	1.2	2.1
6	11.4	--	2.4	-.4	-.4	.1	4.6	12.9	8.5	--	1.6	1.0	1.1	2.5
7	11.2	--	2.3	-.3	-.4	.2	4.7	12.6	8.4	--	--	1.1	1.0	2.8
8	11.0	--	2.2	-.5	-.3	.4	5.0	12.6	8.2	--	1.4	1.1	1.1	3.3
9	10.8	--	2.1	-.6	-.3	.5	5.2	12.5	8.0	--	1.4	.7	1.1	3.8
10	10.5	--	2.0	-.4	-.3	.5	5.4	12.3	--	--	1.3	.8	1.1	4.2
11	10.2	--	2.0	-.4	-.4	.6	5.7	12.0	7.3	--	1.3	.8	1.3	4.5
12	9.9	--	1.9	-.3	-.5	.8	6.0	11.7	--	--	1.2	.7	1.3	4.7
13	9.9	--	1.8	-.2	-.8	.8	6.2	11.3	6.6	--	1.5	.7	1.4	4.9
14	9.9	6.4	1.7	-.1	-1.0	1.0	6.0	10.8	6.4	--	1.8	.8	1.4	--
15	9.9	6.2	1.6	0	-1.1	1.0	5.7	10.5	6.1	--	1.6	.8	1.3	--
16	9.8	6.0	1.4	0	-1.2	1.1	5.2	10.3	5.9	--	1.6	.8	1.3	--
17	9.7	5.9	1.2	.1	-1.3	1.2	5.0	10.2	5.5	--	1.6	.8	1.4	7.4
18	9.6	5.3	1.0	.1	-1.3	1.3	4.9	10.2	5.2	--	1.5	.8	1.4	--
19	9.6	5.0	.9	.2	-1.4	1.3	5.1	10.3	--	--	1.4	.8	1.4	--
20	9.6	4.8	.7	.3	-1.4	1.3	5.2	10.5	--	--	1.3	.9	1.4	--
21	9.6	4.8	.6	.3	-1.3	1.3	5.4	10.6	4.7	--	1.3	.8	1.4	--
22	9.6	4.5	.4	.4	-1.4	1.3	5.4	10.7	4.5	--	1.3	.8	1.3	--
23	9.7	4.2	.3	.5	-1.3	1.1	5.6	10.8	4.4	--	1.1	1.0	1.3	--
24	9.9	4.1	.3	.3	-1.3	1.3	6.0	10.9	4.4	--	1.5	1.0	1.3	--
25	10.1	4.1	.4	.2	-1.3	1.4	6.5	10.8	--	--	1.2	.9	1.3	--
26	10.1	3.7	.3	.1	-1.3	1.5	6.8	10.7	--	--	1.0	.9	1.5	--
27	10.1	3.7	.1	.1	-1.2	1.6	6.8	10.6	4.1	1.7	.8	1.0	1.4	--
28	10.0	3.6	0	0	-1.1	1.9	6.6	10.5	4.1	1.7	.9	1.0	1.4	--
29	9.9	3.6	0	-.3	--	2.2	6.5	10.4	4.1	1.6	.8	--	1.4	--
30	9.8	3.5	-.2	-.4	--	2.8	6.6	10.3	4.0	1.6	.8	--	1.4	--
31	9.8	--	-.2	-.5	--	3.4	--	10.1	--	--	.8	--	1.5	--

Table 20.--Daily mean recorded soil temperature data (degrees Celsius), for site 4--Continued

Depth 1.25 meters														
Period: October 1985-April 1986								Period: October 1986-April 1987						
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	12.8	10.0	4.7	1.4	0.8	0.1	3.4	--	10.3	5.0	--	1.5	1.5	1.9
2	12.6	9.9	4.6	1.3	.7	.2	3.7	--	10.2	5.0	--	1.6	1.5	1.8
3	12.4	9.8	4.5	1.2	.7	.3	4.0	--	10.0	--	2.5	1.5	1.6	2.0
4	12.2	9.6	4.2	1.2	.7	.6	4.2	--	9.7	--	2.5	1.5	1.8	2.3
5	12.1	--	4.1	1.1	.7	.7	4.3	13.3	9.5	--	2.4	1.6	1.7	2.4
6	12.0	--	4.0	1.1	.7	.8	4.4	13.1	9.3	--	2.5	1.6	1.6	2.6
7	11.8	--	3.9	1.2	.7	.9	4.5	12.9	9.1	--	--	1.6	1.6	2.8
8	11.6	--	3.7	1.0	.7	1.0	4.6	12.8	9.0	--	2.3	1.7	1.7	3.1
9	11.5	--	3.6	1.0	.8	1.1	4.8	12.6	8.8	--	2.3	1.4	1.7	3.4
10	11.3	--	3.5	1.2	.8	1.2	5.0	12.5	--	--	2.3	1.5	1.6	3.7
11	11.1	--	3.4	1.1	.8	1.3	5.2	12.3	8.2	--	2.2	1.6	1.8	4.0
12	10.9	--	3.3	1.1	.7	1.4	5.3	12.1	--	--	2.2	1.4	1.8	4.2
13	10.7	--	3.3	1.1	.6	1.4	5.6	11.8	7.7	--	2.3	1.4	1.9	4.4
14	10.6	7.7	3.2	1.2	.5	1.5	5.7	11.5	7.6	--	2.5	1.5	1.9	--
15	10.5	7.5	3.1	1.2	.4	1.6	5.6	11.2	7.3	--	2.3	1.5	1.8	--
16	10.5	7.3	2.9	1.3	.3	1.6	5.3	11.0	7.1	--	2.2	1.5	1.9	--
17	10.4	7.2	2.8	1.3	.2	1.7	5.2	10.8	6.6	--	2.3	1.5	1.9	6.7
18	10.3	6.6	2.7	1.3	.1	1.8	5.1	10.7	6.4	--	2.2	1.5	1.9	--
19	10.2	6.4	2.6	1.3	0	1.8	5.0	10.7	--	--	2.1	1.5	1.9	--
20	10.2	6.1	2.4	1.4	0	1.8	5.1	10.7	--	--	2.1	1.5	1.9	--
21	10.1	6.1	2.3	1.4	0	1.9	5.2	10.8	5.9	--	2.1	1.5	1.9	--
22	10.1	5.9	2.2	1.4	0	1.8	5.3	10.9	5.7	--	2.0	1.5	1.8	--
23	10.1	5.7	2.1	1.5	0	1.7	5.4	10.9	5.6	--	1.9	1.6	1.8	--
24	10.2	5.5	1.9	1.4	0	1.9	5.6	11.0	5.5	--	2.3	1.6	1.8	--
25	10.3	5.5	1.9	1.4	0	2.0	5.9	11.0	--	--	2.0	1.6	1.8	--
26	10.3	5.1	1.9	1.3	0	2.0	6.2	10.9	--	--	1.7	1.6	1.9	--
27	10.3	5.1	1.8	1.3	0	2.0	6.3	10.9	5.2	--	1.6	1.6	1.8	--
28	10.3	5.0	1.7	1.3	0	2.2	6.3	10.8	5.2	2.8	1.6	1.6	1.8	--
29	10.3	4.9	1.6	1.1	--	2.4	6.3	10.7	5.1	2.8	1.6	--	1.8	--
30	10.2	4.8	1.5	1.1	--	2.6	6.3	10.7	5.0	2.7	1.5	--	1.8	--
31	10.1	--	1.4	1.0	--	3.0	--	10.5	--	2.6	1.5	--	1.9	--

Table 20.--Daily mean recorded soil temperature data (degrees Celsius), for site 4--Continued

Depth 1.50 meters														
Period: October 1985-April 1986								Period: October 1986-April 1987						
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	13.1	10.3	5.7	2.6	1.9	1.0	3.3	--	10.7	5.9	--	2.1	2.2	2.3
2	12.9	10.2	5.6	2.6	1.8	1.0	3.6	--	10.6	5.9	--	2.2	2.2	2.3
3	12.8	10.2	5.5	2.4	1.8	1.0	3.8	--	10.5	--	3.5	2.1	2.2	2.4
4	12.6	10.0	5.2	2.4	1.7	1.3	4.0	--	10.3	--	3.4	2.1	2.3	2.7
5	12.4	--	5.2	2.3	1.7	1.4	4.2	13.3	10.2	--	3.4	2.1	2.3	2.8
6	12.3	--	5.1	2.2	1.7	1.5	4.3	13.2	10.0	--	3.4	2.1	2.2	2.8
7	12.2	--	4.9	2.3	1.6	1.5	4.4	13.0	9.8	--	--	2.1	2.2	3.0
8	12.0	--	4.8	2.2	1.6	1.6	4.4	12.9	9.7	--	3.3	2.1	2.3	3.2
9	11.9	--	4.7	2.2	1.6	1.7	4.6	12.8	9.5	--	3.2	2.2	2.3	3.3
10	11.7	--	4.5	2.3	1.7	1.7	4.7	12.7	--	--	3.2	2.2	2.2	3.5
11	11.6	--	4.5	2.3	1.7	1.8	4.9	12.6	9.1	--	3.2	2.3	2.3	3.8
12	11.4	--	4.4	2.2	1.6	1.9	5.0	12.4	--	--	3.1	2.2	2.3	4.0
13	11.2	--	4.3	2.2	1.6	1.9	5.2	12.2	8.7	--	3.1	2.2	2.4	4.2
14	11.1	8.0	4.3	2.2	1.5	2.0	5.3	12.0	8.6	--	3.1	2.2	2.5	--
15	11.0	8.4	4.2	2.2	1.4	2.1	5.4	11.8	8.3	--	2.9	2.2	2.4	--
16	10.9	8.2	4.1	2.2	1.4	2.1	5.3	11.6	8.2	--	2.8	2.2	2.4	--
17	10.9	8.1	3.9	2.2	1.3	2.2	5.3	11.4	7.6	--	2.8	2.2	2.4	5.3
18	10.7	7.5	3.9	2.2	1.2	2.3	5.2	11.3	7.4	--	2.8	2.2	2.4	--
19	10.7	7.2	3.8	2.2	1.1	2.3	5.1	11.2	--	--	2.8	2.2	2.4	--
20	10.6	7.0	3.6	2.3	1.0	2.3	5.1	11.2	--	--	2.7	2.2	2.4	--
21	10.6	7.0	3.5	2.2	1.1	2.3	5.2	11.2	7.0	--	2.7	2.2	2.5	--
22	10.5	6.8	3.4	2.2	1.0	2.3	5.3	11.2	6.8	--	2.6	2.2	2.4	--
23	10.5	6.6	3.4	2.3	.8	2.1	5.3	11.2	6.7	--	2.5	2.3	2.3	--
24	10.5	6.5	3.2	2.2	.7	2.3	5.4	11.2	6.6	--	2.9	2.3	2.3	--
25	10.5	6.5	3.1	2.2	1.0	2.4	5.6	11.2	--	--	2.6	2.2	2.3	--
26	10.5	6.2	3.1	2.2	1.0	2.5	5.8	11.2	--	--	2.4	2.2	2.3	--
27	10.5	6.1	3.0	2.2	1.0	2.4	6.0	11.1	6.3	3.9	2.3	2.2	2.3	--
28	10.5	6.0	2.9	2.2	1.0	2.6	6.1	11.1	6.2	3.8	2.3	2.2	2.3	--
29	10.5	5.9	2.8	2.1	--	2.7	6.1	11.0	6.1	3.7	2.2	--	2.3	--
30	10.4	5.8	2.7	2.1	--	2.8	6.1	11.0	6.0	3.7	2.2	--	2.3	--
31	10.4	--	2.6	2.0	--	3.0	--	10.9	--	--	2.1	--	2.3	--

Table 20.--Daily mean recorded soil temperature data (degrees Celsius), for site 4--Continued

Depth 1.75 meters														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	13.2	10.5	6.6	3.6	2.8	1.8	3.4	--	11.0	6.9	--	3.1	2.8	2.8
2	13.1	10.5	6.4	3.6	2.8	1.8	3.6	--	11.0	6.9	--	3.1	2.8	2.8
3	13.0	10.5	6.3	3.5	2.7	1.8	3.8	--	10.9	--	4.4	3.0	2.9	2.9
4	12.8	10.3	6.1	3.4	2.6	2.1	4.0	--	10.7	--	4.4	3.0	3.0	3.2
5	12.6	--	6.1	3.4	2.6	2.1	4.1	13.3	10.7	--	4.4	3.1	2.9	3.2
6	12.5	--	6.0	3.3	2.6	2.2	4.2	13.2	10.5	--	4.4	3.0	2.9	3.2
7	12.4	--	5.9	3.3	2.5	2.2	4.3	13.1	10.4	--	--	3.0	2.8	3.3
8	12.2	--	5.8	3.2	2.5	2.3	4.4	13.0	10.2	--	4.2	3.0	2.9	3.4
9	12.1	--	5.7	3.2	2.5	2.3	4.5	12.9	10.1	--	4.2	3.0	2.9	3.5
10	12.0	--	5.5	3.4	2.5	2.4	4.6	12.9	--	--	4.1	3.1	2.8	3.6
11	11.9	--	5.5	3.3	2.5	2.4	4.8	12.8	9.7	--	4.1	3.1	2.9	3.8
12	11.8	--	5.3	3.2	2.5	2.5	4.9	12.6	--	--	4.1	3.0	2.9	3.9
13	11.6	--	5.3	3.2	2.4	2.5	5.0	12.5	9.5	--	4.1	3.0	3.0	4.1
14	11.5	9.2	5.2	3.2	2.4	2.6	5.1	12.4	9.4	--	4.0	3.0	3.0	--
15	11.4	9.1	5.2	3.1	2.4	2.6	5.2	12.2	9.2	--	3.9	3.0	2.9	--
16	11.3	8.9	5.0	3.1	2.3	2.6	5.1	12.1	9.1	--	3.8	2.9	3.0	--
17	11.2	8.8	4.9	3.1	2.2	2.7	5.3	11.9	8.6	--	3.8	2.9	3.0	5.5
18	11.1	8.1	4.9	3.1	2.2	2.7	5.3	11.8	8.4	--	3.8	2.9	3.0	--
19	11.0	7.7	4.8	3.1	2.1	2.7	5.2	11.7	--	--	3.7	2.9	3.0	--
20	11.0	7.8	4.7	3.1	2.0	2.7	5.2	11.6	--	--	3.7	2.9	3.0	--
21	10.9	7.8	4.6	3.1	2.0	2.8	5.2	11.5	8.0	--	3.7	2.9	3.0	--
22	10.9	7.6	4.5	3.1	1.9	2.7	5.2	11.5	7.8	--	3.6	2.9	3.0	--
23	10.8	7.4	4.4	3.1	1.9	2.6	5.3	11.5	7.7	--	3.5	3.0	2.9	--
24	10.7	7.3	4.2	3.0	1.9	2.8	5.4	11.5	7.6	--	3.8	3.0	2.9	--
25	10.7	7.3	4.2	3.0	1.9	2.9	5.5	11.5	--	--	3.6	2.9	2.9	--
26	10.7	7.0	4.1	3.0	1.9	3.0	5.6	11.4	--	--	3.4	2.9	2.9	--
27	10.7	7.0	4.0	3.0	1.9	2.9	5.7	11.4	7.3	4.9	3.3	2.9	2.9	--
28	10.7	6.8	3.9	3.0	1.8	3.0	5.8	11.4	7.2	4.8	3.3	2.9	2.8	--
29	10.7	6.8	3.9	2.9	--	3.1	5.9	11.3	7.1	4.7	3.2	--	2.8	--
30	10.6	6.7	3.8	3.0	--	3.1	6.0	11.2	7.0	4.7	3.2	--	2.8	--
31	10.6	--	3.7	2.9	--	3.3	--	11.2	--	--	3.1	--	2.8	--

Table 20.--Daily mean recorded soil temperature data (degrees Celsius), for site 4--Continued

Depth 2.00 meters														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	13.3	10.7	7.2	4.6	3.6	2.6	3.7	--	11.2	7.6	--	3.8	3.3	3.2
2	13.1	10.7	7.1	4.5	3.6	2.5	3.8	--	11.2	7.6	--	3.9	3.3	3.1
3	13.0	10.7	7.0	4.4	3.5	2.5	4.0	--	11.2	--	5.1	3.7	3.3	3.2
4	12.9	10.6	6.8	4.3	3.4	2.8	4.1	--	11.0	--	5.1	3.7	3.4	3.5
5	12.8	--	6.8	4.3	3.4	2.8	4.2	13.2	11.0	--	5.1	3.8	3.4	3.5
6	12.7	--	6.7	4.2	3.4	2.9	4.3	13.2	10.9	--	5.1	3.7	3.3	3.5
7	12.6	--	6.6	4.2	3.3	2.8	4.4	13.1	10.8	--	--	3.7	3.3	3.6
8	12.4	--	6.6	4.1	3.2	2.9	4.4	13.0	10.6	--	4.9	3.7	3.4	3.6
9	12.3	--	6.5	4.1	3.2	2.9	4.5	12.9	10.5	--	4.9	3.6	3.3	3.7
10	12.2	--	6.3	4.2	3.2	2.9	4.6	12.9	--	--	4.8	3.7	3.3	3.7
11	12.1	--	6.2	4.2	3.2	3.0	4.8	12.8	10.2	--	4.8	3.7	3.4	3.9
12	12.0	--	6.1	4.1	3.2	3.0	4.8	12.7	--	--	4.7	3.6	3.4	3.9
13	11.9	--	6.1	4.0	3.1	3.0	4.9	12.6	10.0	--	4.7	3.5	3.4	4.1
14	11.7	9.7	6.0	4.0	3.1	3.1	5.0	12.5	10.0	--	4.8	3.6	3.5	--
15	11.6	9.6	6.0	4.0	3.1	3.1	5.1	12.5	9.8	--	4.6	3.5	3.4	--
16	11.5	9.4	5.8	4.0	3.1	3.1	5.1	12.3	9.7	--	4.5	3.5	3.4	--
17	11.5	9.3	5.7	3.9	3.0	3.2	5.3	12.2	9.2	--	4.5	3.5	3.4	--
18	11.4	8.7	5.7	3.9	3.0	3.2	5.3	12.1	9.0	--	4.5	3.4	3.4	--
19	11.3	8.6	5.6	3.9	2.9	3.2	5.3	12.0	--	--	4.5	3.4	3.4	--
20	11.2	8.4	5.5	3.9	2.8	3.2	5.2	11.8	--	--	4.4	3.5	3.4	--
21	11.2	8.4	5.5	3.9	2.8	3.3	5.2	11.8	8.6	--	4.4	3.4	3.4	--
22	11.1	8.2	5.4	3.8	2.7	3.2	5.3	11.8	8.5	--	4.3	3.4	3.4	--
23	11.0	8.0	5.3	3.9	2.7	3.0	5.3	11.7	8.4	--	4.2	3.5	3.3	--
24	11.0	8.0	5.1	3.8	2.7	3.2	5.4	11.6	8.3	--	4.6	3.5	3.3	--
25	10.9	8.0	5.0	3.8	2.7	3.4	5.4	11.6	--	--	4.3	3.4	3.3	--
26	10.9	7.7	5.0	3.7	2.7	3.4	5.5	11.6	--	--	4.1	3.4	3.3	--
27	10.9	7.6	4.9	3.7	2.7	3.3	5.6	11.5	7.9	5.6	4.0	3.4	3.2	--
28	10.9	7.5	4.8	3.7	2.6	3.5	5.7	11.5	7.8	5.5	4.0	3.4	3.2	--
29	10.8	7.5	4.8	3.7	--	3.5	5.7	11.5	7.8	5.5	4.0	--	3.2	--
30	10.8	7.4	4.7	3.7	--	3.5	5.8	11.4	7.7	5.4	3.9	--	3.1	--
31	10.7	--	4.6	3.7	--	3.6	--	11.4	--	--	3.9	--	3.2	--

Table 20.--Daily mean recorded soil temperature data (degrees Celsius), for site 4--Continued

Depth 2.50 meters														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	13.0	10.9	8.2	5.9	4.8	3.8	4.3	--	--	--	--	--	--	--
2	12.9	10.9	8.1	5.8	4.8	3.8	4.4	--	--	--	--	--	--	--
3	12.8	10.9	8.0	5.7	4.7	3.7	4.4	--	--	--	--	--	--	--
4	12.8	10.8	7.8	5.7	4.7	3.9	4.5	--	--	--	--	--	--	--
5	12.7	--	7.8	5.6	4.6	4.0	4.5	--	--	--	--	--	--	--
6	12.6	--	7.7	5.5	4.6	4.0	4.6	--	--	--	--	--	--	--
7	12.5	--	7.7	5.5	4.5	3.9	4.6	--	--	--	--	--	--	--
8	12.4	--	7.6	5.4	4.4	4.0	4.7	--	--	--	--	--	--	--
9	12.3	--	7.5	5.5	4.4	4.0	4.7	--	--	--	--	--	--	--
10	12.2	--	7.4	5.6	4.3	4.0	4.8	--	--	--	--	--	--	--
11	12.2	--	7.3	5.5	4.3	4.0	5.0	--	--	--	--	--	--	--
12	12.1	--	7.2	5.5	4.3	4.0	4.9	--	--	--	--	--	--	--
13	12.0	--	7.1	5.4	4.3	4.0	4.9	--	--	--	--	--	--	--
14	11.9	10.2	7.1	5.3	4.3	4.0	5.0	--	--	--	--	--	--	--
15	11.8	10.1	7.1	5.3	4.3	4.0	5.1	--	--	--	--	--	--	--
16	11.8	10.1	7.0	5.2	4.3	4.0	5.0	--	--	--	--	--	--	--
17	11.7	10.0	6.9	5.2	4.2	4.1	5.3	--	--	--	--	--	--	--
18	11.6	9.5	6.8	5.2	4.2	4.1	5.3	--	--	--	--	--	--	--
19	11.6	9.3	6.8	5.1	4.1	4.1	5.4	--	--	--	--	--	--	--
20	11.5	9.1	6.7	5.1	4.0	4.0	5.4	--	--	--	--	--	--	--
21	11.5	9.1	6.7	5.1	4.0	4.1	5.4	--	--	--	--	--	--	--
22	11.4	9.0	6.6	5.0	4.0	4.0	5.5	--	--	--	--	--	--	--
23	11.3	8.8	6.5	5.0	4.0	3.9	5.6	--	--	--	--	--	--	--
24	11.2	8.8	6.4	5.0	3.9	4.0	5.6	--	--	--	--	--	--	--
25	11.2	8.8	6.3	4.9	3.9	4.2	5.6	--	--	--	--	--	--	--
26	11.2	8.5	6.3	4.9	3.9	4.2	5.6	--	--	--	--	--	--	--
27	11.1	8.5	6.2	4.9	3.9	4.1	5.7	--	--	--	--	--	--	--
28	11.1	8.4	6.1	4.9	3.8	4.3	5.7	--	--	--	--	--	--	--
29	11.0	8.3	6.0	4.8	--	4.3	5.8	--	--	--	--	--	--	--
30	11.0	8.3	6.0	4.9	--	4.3	5.8	--	--	--	--	--	--	--
31	10.9	--	5.9	4.8	--	4.3	--	--	--	--	--	--	--	--

Table 21.--Daily mean recorded soil temperature data (degrees Celsius), for site 5

[--, indicates no data]

Depth 0.05 meter														
Period: October 1985-April 1986								Period: October 1986-April 1987						
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	--	--	--	--	-5.6	-2.3	7.1	--	2.7	-0.6	--	-1.7	-0.7	-0.3
2	--	--	--	--	-4.5	-1.6	7.0	--	2.6	-.4	--	-.9	-1.1	-.4
3	--	--	--	--	-3.8	-1.0	5.5	--	4.1	--	-3.3	-1.9	-.9	.3
4	--	--	--	--	-3.6	-.4	4.2	--	2.1	--	-2.3	-3.0	-.3	1.7
5	--	--	--	--	-3.2	-.1	5.0	10.5	4.6	--	-1.6	-1.7	-.2	3.1
6	--	--	--	--	-3.5	-.2	7.7	10.0	4.9	--	-1.5	-1.6	0	4.9
7	--	--	--	--	-3.7	-1.9	8.0	13.0	3.6	--	--	-1.0	0	6.5
8	--	--	--	--	-5.3	-2.3	7.2	9.8	2.1	--	-3.5	-1.6	-.6	7.9
9	--	--	--	-5.0	-7.3	-.6	7.7	8.4	1.2	--	-4.3	-1.0	-.8	7.6
10	--	--	--	-4.7	-8.7	-.2	9.4	9.1	--	--	-4.3	-1.1	-1.0	5.9
11	--	--	--	-3.3	-9.7	-.2	10.3	7.1	.1	--	-3.2	-1.3	-.5	6.4
12	--	--	--	-1.6	-10.2	-.1	6.3	5.2	--	--	-.9	-.6	-.9	6.8
13	--	--	--	-3.6	-9.7	-.1	3.3	4.2	-1.0	--	-1.3	-1.0	-.5	7.0
14	--	--	--	-4.0	-9.6	0	2.6	4.8	-.7	--	-1.3	-2.2	-.3	7.2
15	--	--	--	-4.6	-9.4	0	2.1	6.6	-.6	--	-4.8	-2.2	-.4	8.5
16	--	--	--	-4.0	-8.5	-.1	2.8	8.1	-.3	--	-6.6	-1.9	-.4	9.9
17	--	--	--	-3.2	-7.1	0	5.2	8.3	-1.2	--	-6.4	-1.6	-.3	11.7
18	--	--	--	-2.8	-6.6	.1	6.6	9.4	-.8	--	-6.6	-2.2	-.3	--
19	--	--	--	-2.7	-6.9	-.8	6.9	10.3	--	--	-5.2	-1.4	-.3	--
20	--	--	--	-2.3	-7.1	-1.7	5.8	9.6	--	--	-5.0	-1.1	.1	--
21	--	--	--	-2.7	-7.2	-.8	5.6	9.7	-.9	--	-4.1	-.9	.1	--
22	--	--	--	-4.8	-6.9	-.2	7.7	11.0	-.6	--	-5.5	-1.0	.1	--
23	--	--	--	-6.4	-6.6	-.7	12.5	9.2	-1.3	--	-7.3	-1.1	0	--
24	--	--	--	-5.0	-6.5	.1	12.0	8.0	-.6	--	-6.6	-.9	-.3	--
25	--	--	--	-4.2	-6.0	1.0	8.1	8.5	--	--	-6.9	-.5	-.3	--
26	--	--	--	-5.6	-4.1	1.2	6.3	7.5	--	--	-5.5	-.4	.1	--
27	--	--	--	-8.1	-2.0	3.2	5.0	8.1	-.4	-3.0	-4.7	-.5	-.4	--
28	--	--	--	-7.2	-2.1	7.7	6.9	8.8	-.3	-3.5	-3.5	-.4	-.7	--
29	--	--	--	-7.3	--	9.6	9.7	6.2	-.4	-2.9	-2.1	--	-.9	--
30	--	--	--	-7.0	--	8.2	10.2	7.2	-.5	-3.3	-1.9	--	-.8	--
31	--	--	--	-6.2	--	8.3	--	6.7	--	--	-2.1	--	0	--

Table 21.--Daily mean recorded soil temperature data (degrees Celsius), for site 5--Continued

Depth 0.10 meter														
Period: October 1985-April 1986								Period: October 1986-April 1987						
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	--	--	--	--	-5.4	-2.3	6.9	--	4.0	-0.3	--	-1.8	-0.5	-0.3
2	--	--	--	--	-4.5	-1.8	6.9	--	3.3	-.2	--	-.9	-.6	-.4
3	--	--	--	--	-3.8	-1.1	5.8	--	4.7	--	-3.1	-1.6	-.7	-.2
4	--	--	--	--	-3.6	-.5	4.5	--	2.9	--	-2.4	-2.6	-.4	.9
5	--	--	--	--	-3.1	-.2	5.0	10.8	4.6	--	-1.7	-1.7	-.4	2.4
6	--	--	--	--	-3.3	-.1	7.0	10.2	5.2	--	-1.4	-1.6	-.4	4.3
7	--	--	--	--	-3.4	-1.3	7.7	12.5	4.2	--	--	-1.1	-.4	5.8
8	--	--	--	--	-4.6	-2.1	7.1	10.5	2.9	--	-3.0	-1.3	-.5	7.1
9	--	--	--	-5.2	-6.4	-.7	7.4	9.0	1.9	--	-3.7	-1.1	-.5	7.3
10	--	--	--	-4.6	-7.7	-.3	8.8	9.3	--	--	-3.8	-1.1	-.7	6.0
11	--	--	--	-3.5	-8.7	-.2	9.8	7.9	.9	--	-3.2	-1.4	-.4	6.2
12	--	--	--	-1.8	-9.3	-.2	7.1	6.2	--	--	-1.4	-.8	-.6	6.5
13	--	--	--	-3.1	-9.1	-.1	4.3	5.0	-.1	--	-1.4	-.9	-.6	7.0
14	--	--	--	-3.5	-8.9	0	3.2	5.2	-.1	--	-1.1	-1.7	-.4	6.9
15	--	--	--	-4.1	-8.9	0	2.4	6.6	-.1	--	-3.5	-2.0	-.4	8.0
16	--	--	--	-3.8	-8.1	-.2	2.7	8.0	0	--	-5.5	-1.8	-.4	9.3
17	--	--	--	-3.1	-7.0	0	4.8	8.2	-.4	--	-5.6	-1.6	-.4	10.8
18	--	--	--	-2.7	-6.3	0	6.3	9.2	-.5	--	-6.0	-1.9	-.4	--
19	--	--	--	-2.6	-6.6	-.3	6.6	10.1	--	--	-4.6	-1.5	-.4	--
20	--	--	--	-2.3	-6.7	-1.3	6.0	9.7	--	--	-4.6	-1.1	-.3	--
21	--	--	--	-2.4	-6.9	-.7	5.6	9.7	-.6	--	-3.7	-.9	-.2	--
22	--	--	--	-4.0	-6.6	-.4	7.0	10.8	-.5	--	-4.5	-.9	-.3	--
23	--	--	--	-5.5	-6.3	-.9	11.1	9.8	-.7	--	-6.1	-1.0	-.3	--
24	--	--	--	-4.7	-6.1	-.1	11.6	8.5	-.5	--	-5.7	-.9	-.3	--
25	--	--	--	-4.0	-5.9	.3	8.7	8.8	--	--	-6.1	-.6	-.3	--
26	--	--	--	-4.9	-4.4	.9	6.6	7.9	--	--	-5.2	-.5	-.2	--
27	--	--	--	-7.1	-2.2	2.5	5.5	8.2	-.3	-2.8	-4.5	-.4	-.3	--
28	--	--	--	-6.7	-2.1	6.6	6.5	8.9	-.3	-3.2	-3.5	-.4	-.4	--
29	--	--	--	-6.7	--	8.6	9.1	7.0	-.2	-2.7	-2.3	--	-.5	--
30	--	--	--	-6.6	--	7.9	9.9	7.3	-.2	-3.0	-1.8	--	-.5	--
31	--	--	--	-5.9	--	8.1	--	7.4	--	--	-2.0	--	-.3	--

Table 21.--Daily mean recorded soil temperature data (degrees Celsius), for site 5--Continued

Depth 0.15 meter														
Period: October 1985-April 1986								Period: October 1986-April 1987						
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	--	--	--	--	-5.0	-2.4	6.8	--	4.8	-0.1	--	-2.0	-0.5	-0.4
2	--	--	--	--	-4.2	-2.0	7.0	--	3.8	0	--	-1.2	-.6	-.4
3	--	--	--	--	-3.6	-1.4	6.0	--	5.0	--	-2.9	-1.7	-.6	-.2
4	--	--	--	--	-3.5	-.3	4.7	--	3.4	--	-2.4	-2.5	-.5	.4
5	--	--	--	--	-2.9	-.3	5.0	11.0	4.7	--	-1.7	-1.9	-.5	2.0
6	--	--	--	--	-2.9	-.2	6.5	10.3	5.4	--	-1.4	-1.8	-.5	3.9
7	--	--	--	--	-3.1	-.9	7.6	12.1	4.6	--	--	-1.4	-.5	5.4
8	--	--	--	--	-3.9	-1.8	7.1	10.8	3.4	--	-2.7	-1.4	-.5	6.6
9	--	--	--	-5.4	-5.5	-.8	7.2	9.3	2.3	--	-3.3	-1.2	-.5	7.0
10	--	--	--	-4.3	-6.7	-.4	8.5	9.5	--	--	-3.5	-1.2	-.7	6.1
11	--	--	--	-3.7	-7.7	-.2	9.6	8.4	1.3	--	-3.1	-1.4	-.5	6.1
12	--	--	--	-2.2	-8.3	-.1	7.4	6.8	--	--	-1.6	-.9	-.6	6.4
13	--	--	--	-2.6	-8.4	-.1	4.9	5.6	.4	--	-1.5	-.9	-.5	6.9
14	--	--	--	-3.0	-8.2	0	3.6	5.5	.3	--	-1.2	-1.5	-.4	6.7
15	--	--	--	-3.6	-8.2	0	2.7	6.7	.3	--	-3.0	-1.8	-.5	7.7
16	--	--	--	-3.4	-7.7	-.1	2.9	7.9	.4	--	-5.0	-1.7	-.4	8.9
17	--	--	--	-2.8	-6.7	.1	4.6	8.2	-.1	--	-5.3	-1.5	-.4	10.2
18	--	--	--	-2.5	-6.0	.1	6.1	9.1	-.2	--	-5.7	-1.8	-.4	--
19	--	--	--	-2.3	-6.1	-.1	6.4	9.9	--	--	-4.5	-1.4	-.4	--
20	--	--	--	-2.0	-6.3	-.8	6.1	9.8	--	--	-4.5	-1.1	-.3	--
21	--	--	--	-2.1	-6.4	-.5	5.6	9.7	-.4	--	-3.7	-1.0	-.3	--
22	--	--	--	-3.2	-6.3	-.2	6.7	10.6	-.3	--	-4.3	-.9	-.3	--
23	--	--	--	-4.6	-5.9	-.5	10.3	10.1	-.4	--	-5.7	-.9	-.4	--
24	--	--	--	-4.4	-5.9	0	11.3	8.8	-.3	--	-5.4	-.9	-.4	--
25	--	--	--	-3.9	-5.7	.2	9.1	8.9	--	--	-5.9	-.7	-.4	--
26	--	--	--	-4.3	-4.7	.8	6.9	8.2	--	--	-5.3	-.5	-.4	--
27	--	--	--	-6.1	-2.5	2.2	5.8	8.3	-.1	-2.6	-4.5	-.5	-.4	--
28	--	--	--	-6.0	-2.2	5.9	6.2	9.0	-.1	-2.9	-3.7	-.4	-.4	--
29	--	--	--	-6.0	--	8.0	8.7	7.4	0	-2.6	-2.5	--	-.5	--
30	--	--	--	-5.9	--	7.7	9.7	7.5	0	-2.7	-2.0	--	-.5	--
31	--	--	--	-5.5	--	7.9	--	7.7	--	--	-2.2	--	-.3	--

Table 21.--Daily mean recorded soil temperature data (degrees Celsius), for site 5--Continued

Depth 0.20 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	--	--	--	--	--	-2.4	6.7	--	5.5	0.1	--	-2.4	-0.6	-0.5
2	--	--	--	--	--	-2.2	6.9	--	4.4	.1	--	-1.6	-.6	-.5
3	--	--	--	--	--	-1.7	6.1	--	5.2	--	-2.8	-2.1	-.6	-.2
4	--	--	--	--	--	-.6	4.9	--	3.9	--	-2.3	-2.8	-.7	.5
5	--	--	--	--	--	-.5	4.9	11.2	4.8	--	-1.7	-2.3	-.7	1.7
6	--	--	--	--	--	-.3	6.1	10.5	5.5	--	-1.4	-2.2	-.6	3.6
7	--	--	--	--	--	-.7	7.3	11.9	4.9	--	--	-1.8	-.6	5.0
8	--	--	--	--	--	-1.6	7.0	11.1	3.8	--	-2.5	-1.8	-.6	6.2
9	--	--	--	--	--	-.8	7.0	9.7	2.7	--	-3.0	-1.4	-.6	6.8
10	--	--	--	--	--	-.5	8.1	9.7	--	--	-3.2	-1.2	-.7	6.0
11	--	--	--	--	--	-.3	9.2	8.8	1.7	--	-3.0	-1.4	-.5	5.9
12	--	--	--	--	--	-.2	7.7	7.3	--	--	-1.7	-1.0	-.6	6.2
13	--	--	--	--	--	-.2	5.4	6.1	.8	--	-1.7	-1.0	-.5	6.8
14	--	--	--	--	--	0	3.9	5.9	.7	--	-1.6	-1.4	-.4	6.5
15	--	--	--	--	--	-.1	3.0	6.8	.6	--	-3.0	-1.7	-.5	7.4
16	--	--	--	--	--	-.1	2.9	7.9	.7	--	-4.8	-1.7	-.5	8.5
17	--	--	--	--	--	.1	4.5	8.3	.1	--	-5.2	-1.5	-.5	9.7
18	--	--	--	--	--	.1	5.8	9.0	0	--	-5.7	-1.7	-.5	--
19	--	--	--	--	--	0	6.2	9.8	--	--	-4.6	-1.5	-.4	--
20	--	--	--	--	--	-.5	6.1	9.8	--	--	-4.7	-1.2	-.4	--
21	--	--	--	--	-6.1	-.4	5.5	9.7	-.1	--	-3.9	-1.0	-.4	--
22	--	--	--	--	-6.1	-.3	6.4	10.5	-.1	--	-4.4	-.9	-.4	--
23	--	--	--	--	-5.7	-.5	9.5	10.2	-.1	--	-5.6	-.9	-.4	--
24	--	--	--	--	-5.7	0	10.9	9.1	-.1	--	-5.4	-.9	-.4	--
25	--	--	--	--	-5.5	.2	9.3	9.0	--	--	-5.9	-.8	-.4	--
26	--	--	--	--	-4.8	.7	7.1	8.4	--	--	-5.5	-.7	-.5	--
27	--	--	--	--	-2.9	1.9	6.1	8.4	0	-2.5	-4.8	-.5	-.4	--
28	--	--	--	--	-2.3	5.2	6.1	9.0	.1	-2.7	-4.0	-.5	-.5	--
29	--	--	--	--	--	7.4	8.4	7.8	.1	-2.5	-3.0	--	-.5	--
30	--	--	--	--	--	7.4	9.5	7.6	.1	-2.6	-2.5	--	-.5	--
31	--	--	--	--	--	7.6	--	8.0	--	--	-2.5	--	-.4	--

Table 21.--Daily mean recorded soil temperature data (degrees Celsius), for site 5--Continued

Depth 0.25 meter														
Period: October 1985-April 1986								Period: October 1986-April 1987						
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	--	--	--	--	--	-2.5	6.6	--	6.1	0.3	--	-2.6	-0.6	-0.5
2	--	--	--	--	--	-2.3	6.8	--	4.8	.4	--	-1.9	-.7	-.4
3	--	--	--	--	--	-1.9	6.1	--	5.4	--	-2.6	-2.3	-.6	-.1
4	--	--	--	--	--	-.8	5.0	--	4.4	--	-2.2	-2.8	-.7	.6
5	--	--	--	--	--	-.6	4.9	11.3	5.0	--	-1.6	-2.6	-.8	1.6
6	--	--	--	--	--	-.4	5.8	10.7	5.6	--	-1.4	-2.4	-.6	3.3
7	--	--	--	--	--	-.6	7.1	11.7	5.2	--	--	-2.0	-.6	4.6
8	--	--	--	--	--	-1.3	6.8	11.3	4.3	--	-2.3	-2.0	-.6	5.8
9	--	--	--	--	--	-.9	6.8	10.0	3.2	--	-2.7	-1.4	-.6	6.5
10	--	--	--	--	--	-.5	7.8	9.8	--	--	-3.0	-1.2	-.7	6.0
11	--	--	--	--	--	-.3	8.9	9.2	2.1	--	-2.9	-1.3	-.5	5.8
12	--	--	--	--	--	-.2	7.8	7.8	--	--	-1.8	-1.0	-.6	6.1
13	--	--	--	--	--	-.2	5.7	6.6	1.3	--	-1.7	-1.0	-.5	6.6
14	--	--	--	--	--	0	4.3	6.2	1.1	--	-1.8	-1.3	-.5	--
15	--	--	--	--	--	-.1	3.3	6.9	1.0	--	-2.9	-1.6	-.5	--
16	--	--	--	--	--	-.1	3.0	7.9	1.0	--	-4.6	-1.6	-.5	--
17	--	--	--	--	--	.1	4.3	8.3	.3	--	-5.1	-1.5	-.5	9.4
18	--	--	--	--	--	.1	5.6	9.0	.3	--	-5.5	-1.6	-.5	--
19	--	--	--	--	--	.1	6.1	9.7	--	--	-4.5	-1.4	-.5	--
20	--	--	--	--	--	-.2	6.1	9.9	--	--	-4.7	-1.2	-.4	--
21	--	--	--	--	-5.8	-.2	5.5	9.7	.2	--	-3.9	-1.0	-.4	--
22	--	--	--	--	-5.9	-.2	6.2	10.4	.2	--	-4.3	-.9	-.4	--
23	--	--	--	--	-5.5	-.6	8.9	10.3	.1	--	-5.4	-.9	-.4	--
24	--	--	--	--	-5.5	0	10.5	9.3	.1	--	-5.3	-.9	-.4	--
25	--	--	--	--	-5.4	.2	9.3	9.2	--	--	-5.8	-.8	-.4	--
26	--	--	--	--	-4.8	.7	7.3	8.7	--	--	-5.5	-.7	-.5	--
27	--	--	--	--	-3.2	1.6	6.3	8.6	.2	-2.4	-4.9	-.6	-.4	--
28	--	--	--	--	-2.5	4.6	6.0	9.1	.3	-2.5	-4.2	-.6	-.4	--
29	--	--	--	--	--	6.9	8.0	8.1	.3	-2.3	-3.3	--	-.4	--
30	--	--	--	--	--	7.1	9.2	7.8	.3	-2.4	-2.7	--	-.4	--
31	--	--	--	--	--	7.4	--	8.1	--	--	-2.7	--	-.3	--

Table 21.--Daily mean recorded soil temperature data (degrees Celsius), for site 5--Continued

Depth 0.30 meter														
Period: October 1985-April 1986								Period: October 1986-April 1987						
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	--	--	--	--	--	-2.5	6.4	--	6.7	0.5	--	-2.6	-0.6	-0.4
2	--	--	--	--	--	-2.4	6.7	--	5.4	.6	--	-1.9	-.6	-.3
3	--	--	--	--	--	-2.1	6.1	--	5.7	--	-2.3	-2.2	-.6	0
4	--	--	--	--	--	-.9	5.2	--	4.8	--	-2.0	-2.7	-.8	.7
5	--	--	--	--	--	-.7	4.9	11.4	5.2	--	-1.5	-2.5	-.9	1.5
6	--	--	--	--	--	-.5	5.5	10.9	5.8	--	-1.3	-2.3	-.6	3.0
7	--	--	--	--	--	-.6	6.8	11.6	5.5	--	--	-2.0	-.6	4.2
8	--	--	--	--	--	-1.1	6.7	11.5	4.7	--	-1.9	-2.0	-.6	5.4
9	--	--	--	--	--	-.8	6.6	10.3	3.7	--	-2.3	-1.4	-.6	6.2
10	--	--	--	--	--	-.6	7.5	10.1	--	--	-2.6	-1.2	-.6	5.9
11	--	--	--	--	--	-.4	8.5	9.5	2.6	--	-2.6	-1.3	-.6	5.6
12	--	--	--	--	--	-.3	7.9	8.3	--	--	-1.7	-1.0	-.5	5.9
13	--	--	--	--	--	-.2	6.1	7.1	1.8	--	-1.7	-.9	-.5	6.4
14	--	--	--	--	--	0	4.6	6.7	1.6	--	-1.9	-1.1	-.4	--
15	--	--	--	--	--	-.1	3.6	7.1	1.4	--	-2.5	-1.4	-.5	--
16	--	--	--	--	--	-.1	3.1	7.9	1.4	--	-4.0	-1.5	-.5	--
17	--	--	--	--	--	.2	4.3	8.4	.7	--	-4.5	-1.4	-.4	--
18	--	--	--	--	--	.2	5.4	9.0	.6	--	-5.0	-1.4	-.4	--
19	--	--	--	--	--	.2	5.9	9.6	--	--	-4.2	-1.3	-.4	--
20	--	--	--	--	--	-.1	6.1	9.9	--	--	-4.4	-1.1	-.4	--
21	--	--	--	--	-5.5	-.1	5.5	9.8	.5	--	-3.7	-.9	-.3	--
22	--	--	--	--	-5.5	-.2	6.1	10.3	.5	--	-4.0	-.9	-.3	--
23	--	--	--	--	-5.2	-.5	8.2	10.4	.5	--	-4.9	-.8	-.4	--
24	--	--	--	--	-5.2	.1	10.0	9.5	.4	--	-4.9	-.8	-.3	--
25	--	--	--	--	-5.1	.3	9.3	9.3	--	--	-5.4	-.8	-.3	--
26	--	--	--	--	-4.7	.7	7.5	8.9	--	--	-5.3	-.7	-.5	--
27	--	--	--	--	-3.4	1.4	6.5	8.7	.5	-2.1	-4.7	-.6	-.3	--
28	--	--	--	--	-2.6	4.0	6.0	9.2	.5	-2.2	-4.1	-.6	-.3	--
29	--	--	--	--	--	6.3	7.7	8.4	.6	-2.0	-3.3	--	-.3	--
30	--	--	--	--	--	6.8	8.9	8.0	.6	-2.1	-2.7	--	-.3	--
31	--	--	--	--	--	7.1	--	8.3	--	--	-2.7	--	-.2	--

Table 21.--Daily mean recorded soil temperature data (degrees Celsius), for site 5--Continued

Depth 0.40 meter															
Period: October 1985-April 1986								Period: October 1986-April 1987							
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	
1	--	--	--	--	--	-2.5	6.2	--	7.6	1.4	--	-0.8	-0.2	0.4	
2	--	--	--	--	--	-2.4	6.4	--	6.4	1.3	--	-.8	-.2	.3	
3	--	--	--	--	--	-2.2	6.1	--	6.4	--	-1.3	-.5	-.2	.5	
4	--	--	--	--	--	-1.2	5.3	--	5.7	--	-1.2	-.7	.1	.8	
5	--	--	--	--	--	-.9	4.9	11.8	5.7	--	-.9	-.8	-.1	1.4	
6	--	--	--	--	--	-.6	5.2	11.4	6.2	--	-.6	-.6	-.1	2.6	
7	--	--	--	--	--	-.5	6.3	11.6	6.1	--	--	-.5	-.2	3.7	
8	--	--	--	--	--	-.8	6.4	11.8	5.5	--	-1.0	-.3	-.1	4.8	
9	--	--	--	--	--	-.7	6.4	10.9	4.6	--	-1.2	-.9	0	5.6	
10	--	--	--	--	--	-.6	7.0	10.5	--	--	-1.5	-.6	-.2	5.6	
11	--	--	--	--	--	-.4	7.9	10.2	3.5	--	-1.6	-.6	0	5.4	
12	--	--	--	--	--	-.3	7.7	9.2	--	--	-1.1	-.5	0	5.7	
13	--	--	--	--	--	-.2	6.5	8.1	2.7	--	-.7	-.4	.1	6.2	
14	--	--	--	--	--	0	5.2	7.5	2.4	--	-.1	-.4	.2	6.0	
15	--	--	--	--	--	0	4.2	7.6	2.2	--	-.5	-.7	.1	6.4	
16	--	--	--	--	--	0	3.5	8.2	2.1	--	-1.5	-.8	.1	7.3	
17	--	--	--	--	--	.3	4.2	8.6	2.0	--	-2.1	-.7	.2	8.1	
18	--	--	--	--	--	.3	5.1	9.1	1.8	--	-2.5	-.7	.2	--	
19	--	--	--	--	--	.3	5.6	9.6	--	--	-2.4	-.7	.1	--	
20	--	--	--	--	--	.2	5.9	10.0	--	--	-2.3	-.5	.2	--	
21	--	--	--	--	-4.7	.2	5.5	9.9	1.5	--	-2.0	-.4	.3	--	
22	--	--	--	--	-4.9	0	5.8	10.3	1.4	--	-1.8	-.4	.2	--	
23	--	--	--	--	-4.5	-.3	7.3	10.6	1.4	--	-2.5	-.2	.2	--	
24	--	--	--	--	-4.6	.3	9.0	9.9	1.4	--	-2.3	-.3	.2	--	
25	--	--	--	--	-4.6	.4	9.0	9.6	--	--	-2.9	-.3	.2	--	
26	--	--	--	--	-4.4	.7	7.6	9.3	--	--	-3.1	-.2	.4	--	
27	--	--	--	--	-3.5	1.1	6.8	9.1	1.4	-1.2	-2.8	-.2	.3	--	
28	--	--	--	--	-2.8	3.0	6.1	9.4	1.4	-1.2	-2.2	-.2	.3	--	
29	--	--	--	--	--	5.1	7.2	9.0	1.5	-1.2	-1.7	--	.3	--	
30	--	--	--	--	--	6.1	8.3	8.4	1.5	-1.1	-1.1	--	.3	--	
31	--	--	--	--	--	6.5	--	8.7	--	--	-1.0	--	.3	--	

Table 21.--Daily mean recorded soil temperature data (degrees Celsius), for site 5--Continued

Depth 0.50 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	--	--	--	--	--	-2.4	5.8	--	8.2	1.8	--	-0.8	-0.2	0.5
2	--	--	--	--	--	-2.3	6.0	--	7.1	1.7	--	-.9	-.2	.5
3	--	--	--	--	--	-2.2	5.9	--	6.9	--	-0.8	-.6	-.2	.6
4	--	--	--	--	--	-1.2	5.3	--	6.5	--	-.8	-.7	.1	.9
5	--	--	--	--	--	-.9	4.9	12.0	6.2	--	-.6	-.7	-.1	1.4
6	--	--	--	--	--	-.6	5.0	11.7	6.5	--	-.4	-.6	-.1	2.3
7	--	--	--	--	--	-.6	5.9	11.7	6.5	--	--	-.6	-.1	3.2
8	--	--	--	--	--	-.7	6.1	11.9	6.1	--	-.5	-.4	0	4.2
9	--	--	--	--	--	-.6	6.2	11.3	5.4	--	-.7	-.7	.1	5.0
10	--	--	--	--	--	-.5	6.6	10.9	--	--	-.9	-.5	0	5.3
11	--	--	--	--	--	-.3	7.3	10.6	4.3	--	-1.0	-.5	.2	5.2
12	--	--	--	--	--	-.2	7.5	9.8	--	--	-.8	-.5	.1	5.4
13	--	--	--	--	--	-.1	6.7	8.9	3.5	--	-.6	-.4	.2	5.8
14	--	--	--	--	--	0	5.5	8.2	3.2	--	-.1	-.3	.3	8.1
15	--	--	--	--	--	.1	4.6	8.1	3.0	--	-.4	-.5	.2	--
16	--	--	--	--	--	.1	3.8	8.5	2.8	--	-.9	-.6	.3	--
17	--	--	--	--	--	.4	4.2	8.8	2.6	--	-1.3	-.5	.3	--
18	--	--	--	--	--	.5	4.9	9.2	2.4	--	-1.7	-.5	.3	--
19	--	--	--	--	--	.5	5.3	9.6	--	--	-1.9	-.5	.2	--
20	--	--	--	--	--	.4	5.7	10.0	--	--	-1.8	-.4	.3	--
21	--	--	--	--	-4.1	.4	5.5	10.0	2.0	--	-1.6	-.4	.4	--
22	--	--	--	--	-4.2	.2	5.7	10.2	1.9	--	-1.4	-.3	.3	--
23	--	--	--	--	-3.9	-.2	6.6	10.5	1.9	--	-1.9	-.1	.3	--
24	--	--	--	--	-4.2	.4	8.2	10.2	1.9	--	-1.7	-.2	.3	--
25	--	--	--	--	-4.1	.5	8.6	9.8	--	--	-2.3	-.3	.3	--
26	--	--	--	--	-3.9	.8	7.7	9.6	--	--	-2.6	-.2	.5	--
27	--	--	--	--	-3.3	1.0	7.0	9.4	1.8	-.6	-2.5	-.2	.4	--
28	--	--	--	--	-2.7	2.4	6.2	9.5	1.8	-.7	-2.0	-.2	.4	--
29	--	--	--	--	--	4.1	6.9	9.3	1.9	-.7	-1.6	--	.4	--
30	--	--	--	--	--	5.3	7.8	8.8	1.9	-.7	-1.1	--	.4	--
31	--	--	--	--	--	5.8	--	8.9	--	--	-1.0	--	.4	--

Table 21.--Daily mean recorded soil temperature data (degrees Celsius), for site 5--Continued

Depth 0.60 meter														
Period: October 1985-April 1986								Period: October 1986-April 1987						
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	--	--	--	--	--	-2.3	5.3	--	8.8	2.3	--	-0.5	-0.1	0.7
2	--	--	--	--	--	-2.1	5.6	--	7.9	2.2	--	-.6	0	.6
3	--	--	--	--	--	-2.1	5.6	--	7.5	--	-0.2	-.3	0	.8
4	--	--	--	--	--	-1.2	5.3	--	7.1	--	-.2	-.4	.3	1.1
5	--	--	--	--	--	-.9	4.9	12.3	6.8	--	-.2	-.4	.2	1.4
6	--	--	--	--	--	-.6	4.9	12.0	6.9	--	-.1	-.4	.1	2.1
7	--	--	--	--	--	-.5	5.5	11.9	7.0	--	--	-.3	.1	2.9
8	--	--	--	--	--	-.5	5.8	12.0	6.7	--	-.1	-.2	.2	3.7
9	--	--	--	--	--	-.4	5.9	11.7	6.1	--	-.1	-.5	.3	4.5
10	--	--	--	--	--	-.3	6.2	11.2	--	--	-.3	-.3	.2	4.9
11	--	--	--	--	--	-.2	6.8	11.0	5.1	--	-.4	-.3	.4	4.9
12	--	--	--	--	--	-.1	7.1	10.4	--	--	-.4	-.4	.3	5.1
13	--	--	--	--	--	0	6.7	9.6	4.3	--	-.2	-.3	.5	5.4
14	--	--	--	--	--	.2	5.8	8.9	4.0	--	.2	-.2	.5	--
15	--	--	--	--	--	.3	5.0	8.7	3.8	--	0	-.3	.4	--
16	--	--	--	--	--	.3	4.2	8.8	3.6	--	-.1	-.3	.5	--
17	--	--	--	--	--	.6	4.3	9.1	3.3	--	-.3	-.3	.5	8.0
18	--	--	--	--	--	.6	4.8	9.3	3.0	--	-.6	-.3	.5	--
19	--	--	--	--	--	.7	5.1	9.7	--	--	-1.0	-.3	.4	--
20	--	--	--	--	--	.6	5.6	10.0	--	--	-.9	-.2	.5	--
21	--	--	--	--	-3.4	.6	5.5	10.1	2.6	--	-.9	-.2	.6	--
22	--	--	--	--	-3.5	.4	5.5	10.3	2.5	--	-.8	-.2	.5	--
23	--	--	--	--	-3.2	0	6.2	10.5	2.5	--	-1.1	0	.5	--
24	--	--	--	--	-3.5	.6	7.4	10.3	2.4	--	-.8	-.1	.5	--
25	--	--	--	--	-3.4	.7	8.0	10.1	--	--	-1.3	-.1	.5	--
26	--	--	--	--	-3.3	.9	7.6	9.9	--	--	-1.7	-.1	.7	--
27	--	--	--	--	-3.0	1.0	7.0	9.7	2.3	-.1	-1.7	0	.6	--
28	--	--	--	--	-2.5	2.0	6.4	9.7	2.3	-.1	-1.4	0	.6	--
29	--	--	--	--	--	3.4	6.7	9.6	2.4	-.1	-1.2	--	.5	--
30	--	--	--	--	--	4.5	7.4	9.2	2.3	-.1	-.8	--	.6	--
31	--	--	--	--	--	5.1	--	9.2	--	--	-.7	--	.6	--

Table 21.--Daily mean recorded soil temperature data (degrees Celsius), for site 5--Continued

Depth 0.80 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	--	--	--	--	--	-1.7	4.5	--	9.5	3.2	--	-0.1	0.5	1.0
2	--	--	--	--	--	-1.6	4.8	--	9.0	3.2	--	-.2	.5	1.0
3	--	--	--	--	--	-1.6	5.0	--	8.6	--	0.8	-.1	.6	1.1
4	--	--	--	--	--	-.8	5.0	--	8.2	--	.7	0	.8	1.5
5	--	--	--	--	--	-.6	4.8	12.8	7.9	--	.7	.1	.7	1.6
6	--	--	--	--	--	-.3	4.7	12.5	7.8	--	.8	.1	.6	2.0
7	--	--	--	--	--	-.2	5.0	12.3	7.7	--	--	.1	.6	2.5
8	--	--	--	--	--	-.2	5.4	12.3	7.6	--	.8	.2	.7	3.1
9	--	--	--	--	--	.1	5.5	12.1	7.2	--	.8	0	.8	3.7
10	--	--	--	--	--	.1	5.7	11.8	--	--	.7	.2	.7	4.2
11	--	--	--	--	--	.2	6.2	11.6	6.4	--	.6	.2	.8	4.5
12	--	--	--	--	--	.3	6.4	11.2	--	--	.6	.2	.8	4.6
13	--	--	--	--	--	.4	6.5	10.7	5.7	--	.6	.2	.9	4.9
14	--	--	--	--	--	.6	6.0	10.1	5.5	--	.9	.3	1.0	--
15	--	--	--	--	--	.7	5.4	9.7	5.2	--	.6	.3	.9	--
16	--	--	--	--	--	.7	4.7	9.6	5.0	--	.6	.3	.9	--
17	--	--	--	--	--	.9	4.7	9.6	4.5	--	.5	.3	1.0	7.2
18	--	--	--	--	--	1.0	4.8	9.8	4.3	--	.4	.3	.9	--
19	--	--	--	--	--	1.0	4.9	10.0	--	--	.2	.3	.9	--
20	--	--	--	--	--	1.0	5.3	10.2	--	--	.2	.4	.9	--
21	--	--	--	--	-2.1	1.0	5.4	10.3	3.8	--	.1	.4	.9	--
22	--	--	--	--	-2.2	.8	5.4	10.4	3.7	--	.2	.4	.9	--
23	--	--	--	--	-2.0	.4	5.7	10.6	3.6	--	0	.6	.8	--
24	--	--	--	--	-2.2	1.0	6.4	10.6	3.6	--	.5	.5	.9	--
25	--	--	--	--	-2.2	1.1	7.0	10.5	--	--	.1	.5	.9	--
26	--	--	--	--	-2.2	1.2	7.1	10.3	--	--	-.2	.5	1.0	--
27	--	--	--	--	-2.0	1.2	6.9	10.2	3.4	1.0	-.4	.5	1.0	--
28	--	--	--	--	-1.9	1.8	6.5	10.1	3.3	.9	-.3	.6	1.0	--
29	--	--	--	--	--	2.5	6.5	10.0	3.4	.9	-.4	--	.9	--
30	--	--	--	--	--	3.4	6.8	9.8	3.3	.9	-.2	--	1.0	--
31	--	--	--	--	--	4.1	--	9.7	--	--	-.2	--	1.0	--

Table 21.--Daily mean recorded soil temperature data (degrees Celsius), for site 5--Continued

Depth 1.00 meter														
Period: October 1985-April 1986								Period: October 1986-April 1987						
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	--	--	--	--	--	-0.9	3.9	--	10.0	4.2	--	0.7	1.1	1.4
2	--	--	--	--	--	-.8	4.2	--	9.7	4.1	--	.6	1.1	1.4
3	--	--	--	--	--	-.8	4.5	--	9.4	--	1.7	.7	1.1	1.5
4	--	--	--	--	--	-.2	4.6	--	9.0	--	1.7	.8	1.3	1.8
5	--	--	--	--	--	0	4.6	13.1	8.8	--	1.6	.8	1.2	1.9
6	--	--	--	--	--	.3	4.6	12.8	8.6	--	1.7	.8	1.2	2.1
7	--	--	--	--	--	.3	4.7	12.6	8.5	--	--	.8	1.1	2.4
8	--	--	--	--	--	.4	4.9	12.5	8.3	--	1.6	.9	1.3	2.9
9	--	--	--	--	--	.6	5.1	12.4	8.1	--	1.6	.7	1.3	3.3
10	--	--	--	--	--	.7	5.3	12.2	--	--	1.6	.9	1.2	3.7
11	--	--	--	--	--	.8	5.6	12.0	7.5	--	1.5	.9	1.3	4.1
12	--	--	--	--	--	.8	5.8	11.8	--	--	1.4	.9	1.3	4.3
13	--	--	--	--	--	.9	6.0	11.4	6.9	--	1.5	.9	1.4	4.5
14	--	--	--	--	--	1.1	5.9	11.0	6.7	--	1.7	1.0	1.5	--
15	--	--	--	--	--	1.1	5.6	10.6	6.4	--	1.5	.9	1.4	--
16	--	--	--	--	--	1.1	5.0	10.4	6.2	--	1.4	.9	1.4	--
17	--	--	--	--	--	1.3	5.0	10.3	5.7	--	1.4	1.0	1.5	6.6
18	--	--	--	--	--	1.4	4.9	10.3	5.4	--	1.4	1.0	1.4	--
19	--	--	--	--	--	1.4	4.9	10.3	--	--	1.1	1.0	1.4	--
20	--	--	--	--	--	1.4	5.1	10.4	--	--	1.2	1.0	1.3	--
21	--	--	--	--	-0.9	1.4	5.3	10.5	4.9	--	1.1	1.0	1.4	--
22	--	--	--	--	-1.0	1.2	5.3	10.6	4.8	--	1.1	1.0	1.3	--
23	--	--	--	--	-.8	.8	5.4	10.7	4.7	--	1.0	1.2	1.3	--
24	--	--	--	--	-1.0	1.4	5.9	10.8	4.6	--	1.4	1.1	1.3	--
25	--	--	--	--	-1.1	1.5	6.3	10.7	--	--	1.1	1.1	1.3	--
26	--	--	--	--	-1.1	1.6	6.6	10.6	--	--	.8	1.1	1.5	--
27	--	--	--	--	-1.0	1.5	6.6	10.5	4.4	2.0	.6	1.1	1.4	--
28	--	--	--	--	-1.0	1.9	6.5	10.5	4.3	1.9	.7	1.1	1.4	--
29	--	--	--	--	--	2.3	6.4	10.4	4.3	1.9	.6	--	1.3	--
30	--	--	--	--	--	2.9	6.5	10.3	4.3	1.8	.7	--	1.3	--
31	--	--	--	--	--	3.4	--	10.1	--	--	.6	--	1.4	--

Table 21.--Daily mean recorded soil temperature data (degrees Celsius), for site 5--Continued

Depth 1.25 meters														
Period: October 1985-April 1986								Period: October 1986-April 1987						
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	--	--	--	--	--	0.1	3.4	--	10.4	5.2	--	1.7	1.7	1.9
2	--	--	--	--	--	.1	3.8	--	10.3	5.1	--	1.5	1.7	1.8
3	--	--	--	--	--	0	4.0	--	10.2	--	2.7	1.6	1.8	2.0
4	--	--	--	--	--	.7	4.2	--	9.8	--	2.7	1.6	1.9	2.3
5	--	--	--	--	--	.8	4.4	13.3	9.7	--	2.6	1.7	1.8	2.3
6	--	--	--	--	--	1.1	4.4	13.1	9.5	--	2.7	1.7	1.8	2.4
7	--	--	--	--	--	1.1	4.5	12.9	9.3	--	--	1.6	1.7	2.6
8	--	--	--	--	--	1.1	4.6	12.8	9.1	--	2.6	1.7	1.8	2.9
9	--	--	--	--	--	1.3	4.7	12.7	9.0	--	2.6	1.5	1.9	3.1
10	--	--	--	--	--	1.3	4.9	12.6	--	--	2.5	1.7	1.8	3.4
11	--	--	--	--	--	1.4	5.2	12.4	8.5	--	2.5	1.7	1.9	3.8
12	--	--	--	--	--	1.5	5.3	12.2	--	--	2.4	1.6	1.9	4.0
13	--	--	--	--	--	1.5	5.5	11.9	8.0	--	2.5	1.6	2.0	4.2
14	--	--	--	--	--	1.7	5.6	11.7	7.9	--	2.7	1.7	2.0	--
15	--	--	--	--	--	1.7	5.5	11.4	7.6	--	2.4	1.7	1.9	--
16	--	--	--	--	--	1.6	5.2	11.2	7.4	--	2.3	1.6	1.9	--
17	--	--	--	--	--	1.9	5.3	11.0	6.9	--	2.4	1.7	2.0	6.3
18	--	--	--	--	--	1.9	5.1	10.9	6.7	--	2.3	1.7	2.0	--
19	--	--	--	--	--	2.0	5.0	10.8	--	--	2.1	1.7	1.9	--
20	--	--	--	--	--	1.9	5.1	10.8	--	--	2.2	1.7	1.9	--
21	--	--	--	--	0.4	1.9	5.2	10.9	6.1	--	2.1	1.7	1.9	--
22	--	--	--	--	.3	1.7	5.2	10.9	6.0	--	2.1	1.7	1.8	--
23	--	--	--	--	.4	1.3	5.3	11.0	5.9	--	2.0	1.9	1.8	--
24	--	--	--	--	.1	2.0	5.6	11.0	5.8	--	2.4	1.8	1.8	--
25	--	--	--	--	.1	2.1	5.8	11.0	--	--	2.1	1.7	1.8	--
26	--	--	--	--	.1	2.1	6.1	11.0	--	--	1.8	1.7	2.0	--
27	--	--	--	--	.1	1.9	6.2	10.9	5.5	3.1	1.6	1.8	1.9	--
28	--	--	--	--	.1	2.3	6.2	10.8	5.4	3.0	1.7	1.8	1.8	--
29	--	--	--	--	--	2.5	6.3	10.7	5.4	2.9	1.6	--	1.8	--
30	--	--	--	--	--	2.7	6.3	10.7	5.3	2.9	1.7	--	1.8	--
31	--	--	--	--	--	3.1	--	10.6	--	--	1.6	--	1.8	--

Table 21.--Daily mean recorded soil temperature data (degrees Celsius), for site 5--Continued

Depth 1.50 meters														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	--	--	--	--	--	1.0	3.4	--	10.8	6.2	--	2.6	2.3	2.4
2	--	--	--	--	--	1.0	3.7	--	10.7	6.1	--	2.4	2.3	2.3
3	--	--	--	--	--	.8	3.9	--	10.6	--	3.7	2.5	2.4	2.5
4	--	--	--	--	--	1.4	4.1	--	10.4	--	3.7	2.5	2.5	2.8
5	--	--	--	--	--	1.6	4.2	13.3	10.3	--	3.6	2.5	2.4	2.8
6	--	--	--	--	--	1.8	4.3	13.2	10.1	--	3.6	2.5	2.4	2.8
7	--	--	--	--	--	1.8	4.4	13.0	10.0	--	--	2.4	2.3	2.9
8	--	--	--	--	--	1.8	4.4	13.0	9.8	--	3.5	2.5	2.4	3.1
9	--	--	--	--	--	2.0	4.6	12.8	9.6	--	3.5	2.3	2.5	3.2
10	--	--	--	--	--	1.9	4.7	12.8	--	--	3.4	2.5	2.3	3.4
11	--	--	--	--	--	2.0	5.0	12.6	9.2	--	3.4	2.5	2.5	3.6
12	--	--	--	--	--	2.1	5.0	12.5	--	--	3.3	2.4	2.4	3.8
13	--	--	--	--	--	2.1	5.2	12.3	8.9	--	3.4	2.4	2.5	4.0
14	--	--	--	--	--	2.2	5.3	12.1	8.8	--	3.5	2.5	2.6	--
15	--	--	--	--	--	2.2	5.3	12.0	8.6	--	3.2	2.4	2.4	--
16	--	--	--	--	--	2.2	5.1	11.7	8.5	--	3.2	2.4	2.5	--
17	--	--	--	--	--	2.4	5.3	11.5	7.9	--	3.2	2.4	2.5	6.0
18	--	--	--	--	--	2.4	5.3	11.4	7.7	--	3.2	2.4	2.5	--
19	--	--	--	--	--	2.4	5.1	11.3	--	--	3.0	2.4	2.4	--
20	--	--	--	--	--	2.4	5.1	11.2	--	--	3.1	2.4	2.5	--
21	--	--	--	--	1.4	2.4	5.2	11.2	7.1	--	3.0	2.4	2.5	--
22	--	--	--	--	1.3	2.2	5.2	11.2	7.0	--	3.1	2.4	2.4	--
23	--	--	--	--	1.4	1.8	5.3	11.2	6.9	--	2.9	2.5	2.3	--
24	--	--	--	--	1.1	2.4	5.5	11.2	6.8	--	3.3	2.4	2.4	--
25	--	--	--	--	1.1	2.5	5.6	11.2	--	--	3.1	2.4	2.3	--
26	--	--	--	--	1.1	2.6	5.7	11.2	--	--	2.7	2.4	2.5	--
27	--	--	--	--	1.1	2.4	5.9	11.2	6.5	4.1	2.6	2.4	2.4	--
28	--	--	--	--	1.1	2.7	6.0	11.1	6.4	4.0	2.7	2.4	2.4	--
29	--	--	--	--	--	2.8	6.1	11.0	6.4	3.9	2.6	--	2.3	--
30	--	--	--	--	--	2.9	6.1	11.0	6.3	3.9	2.6	--	2.3	--
31	--	--	--	--	--	3.1	--	10.9	--	--	2.5	--	2.3	--

Table 21.--Daily mean recorded soil temperature data (degrees Celsius), for site 5--Continued

Depth 1.75 meters														
Period: October 1985-April 1986								Period: October 1986-April 1987						
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	--	--	--	--	--	1.9	3.5	--	11.2	7.1	--	3.4	3.0	2.9
2	--	--	--	--	--	1.8	3.8	--	11.1	7.0	--	3.3	3.0	2.8
3	--	--	--	--	--	1.7	3.9	--	11.1	--	4.6	3.3	3.0	2.9
4	--	--	--	--	--	2.2	4.1	--	10.9	--	4.6	3.3	3.2	3.3
5	--	--	--	--	--	2.4	4.2	13.4	10.8	--	4.5	3.3	3.0	3.3
6	--	--	--	--	--	2.6	4.3	13.3	10.7	--	4.6	3.3	3.0	3.3
7	--	--	--	--	--	2.5	4.4	13.2	10.6	--	--	3.3	2.9	3.3
8	--	--	--	--	--	2.5	4.5	13.1	10.4	--	4.4	3.3	3.1	3.4
9	--	--	--	--	--	2.6	4.6	13.0	10.3	--	4.4	3.1	3.1	3.5
10	--	--	--	--	--	2.6	4.7	13.0	--	--	4.3	3.3	2.9	3.6
11	--	--	--	--	--	2.7	4.9	12.8	10.0	--	4.3	3.2	3.1	3.7
12	--	--	--	--	--	2.7	4.9	12.7	--	--	4.2	3.2	3.0	3.9
13	--	--	--	--	--	2.7	5.0	12.6	9.7	--	4.3	3.2	3.1	4.0
14	--	--	--	--	--	2.8	5.2	12.5	9.6	--	4.4	3.2	3.1	--
15	--	--	--	--	--	2.8	5.2	12.4	9.5	--	4.1	3.1	3.0	--
16	--	--	--	--	--	2.7	5.1	12.2	9.3	--	4.0	3.1	3.0	--
17	--	--	--	--	--	2.9	5.4	12.0	8.8	--	4.0	3.1	3.1	--
18	--	--	--	--	--	3.0	5.4	11.9	8.6	--	4.0	3.1	3.0	--
19	--	--	--	--	--	3.0	5.2	11.8	--	--	3.9	3.1	3.0	--
20	--	--	--	--	--	2.9	5.2	11.7	--	--	3.9	3.1	3.0	--
21	--	--	--	--	2.4	2.9	5.3	11.6	8.1	--	3.9	3.1	3.1	--
22	--	--	--	--	2.3	2.6	5.3	11.6	8.0	--	4.0	3.1	3.0	--
23	--	--	--	--	2.4	2.2	5.4	11.6	7.8	--	3.8	3.2	2.9	--
24	--	--	--	--	2.1	2.9	5.5	11.5	7.7	--	4.3	3.1	2.9	--
25	--	--	--	--	2.0	3.0	5.5	11.5	--	--	4.0	3.1	2.9	--
26	--	--	--	--	2.0	3.1	5.6	11.5	--	--	3.6	3.1	3.0	--
27	--	--	--	--	2.1	2.8	5.7	11.5	7.4	5.1	3.5	3.1	2.9	--
28	--	--	--	--	2.0	3.2	5.8	11.5	7.3	5.0	3.6	3.1	2.9	--
29	--	--	--	--	--	3.2	6.0	11.4	7.3	4.9	3.5	--	2.8	--
30	--	--	--	--	--	3.3	6.0	11.3	7.2	4.9	3.5	--	2.8	--
31	--	--	--	--	--	3.4	--	11.3	--	--	3.4	--	2.8	--

Table 21.--Daily mean recorded soil temperature data (degrees Celsius), for site 5--Continued

Depth 2.00 meters														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	--	--	--	--	--	2.6	--	--	11.4	7.7	--	4.0	3.5	3.1
2	--	--	--	--	--	2.6	--	--	11.3	7.6	--	3.9	3.5	3.1
3	--	--	--	--	--	2.4	--	--	11.4	--	5.3	3.9	3.5	3.2
4	--	--	--	--	--	--	--	--	11.2	--	5.3	3.9	3.6	3.6
5	--	--	--	--	--	--	--	13.3	11.2	--	5.3	3.9	3.5	3.6
6	--	--	--	--	--	--	--	13.2	11.1	--	5.3	3.8	3.4	3.6
7	--	--	--	--	--	--	--	13.1	11.0	--	--	3.8	3.4	3.6
8	--	--	--	--	--	--	--	13.1	10.8	--	5.1	3.8	3.5	3.7
9	--	--	--	--	--	--	--	13.0	10.7	--	5.1	3.7	3.5	3.7
10	--	--	--	--	--	--	--	13.0	--	--	5.0	3.9	3.4	3.7
11	--	--	--	--	--	--	--	12.9	10.4	--	5.0	3.8	3.5	3.9
12	--	--	--	--	--	--	--	12.8	--	--	4.9	3.8	3.5	3.9
13	--	--	--	--	--	--	--	12.7	10.2	--	4.9	3.7	3.5	4.1
14	--	--	--	--	--	--	--	12.6	10.2	--	5.0	3.8	3.6	--
15	--	--	--	--	--	--	--	12.5	10.1	--	4.7	3.7	3.5	--
16	--	--	--	--	--	--	--	12.5	10.0	--	4.6	3.7	3.5	--
17	--	--	--	--	--	--	--	12.3	9.3	--	4.6	3.7	3.5	--
18	--	--	--	--	--	--	--	12.2	9.2	--	4.6	3.6	3.4	--
19	--	--	--	--	--	--	--	12.1	--	--	4.5	3.6	3.4	--
20	--	--	--	--	--	--	--	12.0	--	--	4.5	3.7	3.4	--
21	--	--	--	--	3.1	--	--	11.9	8.7	--	4.5	3.6	3.5	--
22	--	--	--	--	3.1	--	--	11.9	8.6	--	4.6	3.6	3.4	--
23	--	--	--	--	3.2	--	--	11.8	8.5	--	4.4	3.7	3.3	--
24	--	--	--	--	2.9	--	--	11.7	8.4	--	4.8	3.7	3.4	--
25	--	--	--	--	2.8	--	--	11.7	--	--	4.5	3.6	3.3	--
26	--	--	--	--	2.7	--	--	11.7	--	--	4.2	3.6	3.4	--
27	--	--	--	--	2.8	--	--	11.7	8.1	5.8	4.1	3.6	3.3	--
28	--	--	--	--	2.7	--	--	11.7	8.0	5.7	4.2	3.6	3.3	--
29	--	--	--	--	--	--	--	11.6	8.0	5.7	4.1	--	3.2	--
30	--	--	--	--	--	--	--	11.5	7.8	5.6	4.1	--	3.2	--
31	--	--	--	--	--	--	--	11.5	--	--	4.0	--	3.1	--

Table 22.--Daily mean recorded soil temperature data (degrees Celsius), for site 6

[--, indicates no data]

Depth 0.05 meter														
Period: October 1985-April 1986								Period: October 1986-April 1987						
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	9.0	4.3	-6.2	-8.3	-6.1	-2.5	6.9	--	1.7	-1.5	--	-2.2	-0.6	-0.5
2	6.9	3.1	-9.6	-7.5	-4.9	-.9	6.7	--	2.0	-1.2	--	-1.4	-.7	-.5
3	7.5	5.1	-7.5	-7.6	-4.2	-.3	5.2	--	3.5	--	-3.4	-2.5	-.7	.7
4	8.4	3.8	-6.6	-8.0	-3.7	0	4.0	--	1.5	--	-2.3	-3.7	-.5	2.6
5	6.3	--	-5.9	-8.5	-3.7	0	5.0	9.9	4.5	--	-1.7	-2.1	-.4	3.8
6	7.0	--	-6.0	-10.8	-4.1	-1.2	8.2	9.8	4.5	--	-1.9	-2.1	.3	5.4
7	6.0	--	-5.7	-11.6	-4.5	-3.2	8.1	13.2	3.0	--	--	-1.4	.9	7.3
8	4.2	--	-4.8	-10.1	-7.1	-2.2	7.0	8.8	1.6	--	-4.0	-2.2	-.9	8.8
9	2.8	--	-4.2	-7.0	-9.6	-.2	7.4	7.7	.6	--	-4.9	-.9	-1.5	8.1
10	3.2	--	-4.8	-6.6	-11.3	-.2	9.2	8.8	--	--	-4.9	-1.3	-1.3	6.0
11	5.5	--	-6.9	-5.6	-12.4	-.2	9.6	6.1	-.4	--	-3.5	-1.6	-.7	6.7
12	8.2	--	-7.6	-3.9	-12.7	-.1	3.5	4.0	--	--	-.8	-.6	-1.3	7.1
13	8.0	--	-9.3	-5.2	-11.7	-.1	1.9	3.5	-2.2	--	-1.6	-1.2	-.7	7.0
14	6.1	-1.2	-8.8	-5.3	-11.7	0	1.8	4.2	-1.6	--	-1.7	-2.7	-.3	7.6
15	5.0	-1.7	-7.9	-5.7	-11.1	0	1.2	6.4	-1.4	--	-6.2	-2.6	-.5	9.2
16	4.9	-.8	-8.5	-5.1	-9.7	0	2.7	8.0	-.8	--	-8.3	-2.2	-.5	10.9
17	7.3	-1.9	-9.4	-4.3	-7.7	.1	5.2	8.3	-3.0	--	-7.6	-1.8	-.4	12.9
18	9.9	-4.6	-10.7	-3.7	-7.7	.1	6.6	9.6	-1.9	--	-7.6	-2.4	-.5	--
19	6.9	-5.1	-9.7	-3.4	-8.6	-.8	6.6	10.5	--	--	-6.0	-1.7	-.4	--
20	7.6	-6.0	-11.3	-3.1	-9.3	-1.7	5.0	9.5	--	--	-5.7	-1.3	.6	--
21	9.0	-6.8	-8.8	-3.1	-9.5	-.7	4.8	9.8	-1.8	--	-4.8	-1.1	.6	--
22	12.0	-4.4	-4.0	-5.4	-8.7	.6	7.6	11.2	-1.0	--	-6.3	-.9	.5	--
23	10.4	-4.2	-5.0	-7.0	-8.2	.2	12.7	8.5	-2.5	--	-7.7	-1.2	.3	--
24	8.3	-4.7	-14.1	-5.5	-7.8	.8	11.1	7.5	-1.2	--	-8.0	-1.0	-.4	--
25	8.6	-4.2	-14.2	-4.7	-6.1	2.4	7.3	8.3	--	--	-8.2	-.6	-.3	--
26	7.9	-4.1	-6.1	-6.7	-2.8	.9	5.7	7.1	--	--	-6.2	-.5	.4	--
27	5.4	-4.3	-9.2	-9.2	-2.4	3.1	4.4	8.0	-.8	-3.1	-5.4	-.5	-.6	--
28	8.8	-4.3	-9.7	-7.9	-2.9	6.8	6.8	8.6	-.5	-3.6	-4.0	-.5	-1.4	--
29	8.4	-4.2	-10.5	-8.2	--	9.2	9.4	5.4	-.8	-3.2	-2.5	--	-1.5	--
30	3.1	-3.9	-8.2	-7.8	--	7.7	10.1	6.9	-1.4	-3.7	-2.3	--	-1.1	--
31	4.3	--	-9.2	-6.8	--	8.1	--	6.1	--	--	-2.6	--	.2	--

Table 22.--Daily mean recorded soil temperature data (degrees Celsius), for site 6--Continued

Depth 0.10 meter														
Period: October 1985-April 1986								Period: October 1986-April 1987						
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	8.7	5.0	-4.6	-7.9	-6.0	-2.7	6.6	--	3.3	-1.1	--	-2.7	-0.6	-0.6
2	7.3	3.6	-7.5	-7.4	-5.0	-1.3	6.6	--	2.8	-.9	--	-1.8	-.6	-.6
3	7.8	5.4	-7.0	-7.1	-4.3	-.4	5.5	--	4.3	--	-3.3	-2.6	-.6	-.1
4	8.5	4.1	-6.2	-7.5	-3.8	-.1	4.3	--	2.4	--	-2.5	-3.7	-.7	1.4
5	6.9	--	-5.3	-7.9	-3.6	0	4.9	10.4	4.6	--	-1.8	-2.6	-.7	2.7
6	7.0	--	-5.3	-9.5	-3.9	-.3	7.1	9.9	5.0	--	-1.8	-2.5	-.4	4.3
7	6.5	--	-5.1	-11.0	-4.1	-2.0	7.7	12.5	3.6	--	--	-2.0	-.2	6.3
8	5.1	--	-4.5	-9.9	-5.9	-2.0	6.8	9.8	2.6	--	-3.6	-2.2	-.6	7.7
9	3.5	--	-4.0	-7.2	-8.2	-.3	7.0	8.4	1.4	--	-4.3	-1.2	-.7	7.7
10	3.5	--	-4.1	-6.5	-9.8	-.2	8.6	9.1	--	--	-4.4	-1.3	-.9	6.2
11	5.3	--	-5.5	-5.6	-11.0	-.2	9.3	7.3	.4	--	-3.7	-1.7	-.7	6.5
12	7.9	--	-6.3	-4.1	-11.5	-.1	5.3	5.3	--	--	-1.4	-.8	-.8	6.8
13	8.1	--	-7.6	-4.8	-11.0	-.1	3.4	4.5	-.8	--	-1.9	-1.1	-.7	7.1
14	6.4	-.6	-7.8	-5.0	-10.9	0	2.6	4.7	-.8	--	-1.8	-2.2	-.5	7.1
15	5.6	-.9	-7.1	-5.3	-10.5	0	1.8	6.4	-.8	--	-5.0	-2.4	-.6	8.4
16	5.2	-.4	-7.4	-5.0	-9.4	-.1	2.6	7.8	-.5	--	-7.4	-2.1	-.5	10.0
17	7.1	-.9	-8.3	-4.3	-7.9	0	4.7	8.2	-1.9	--	-7.1	-1.8	-.5	11.7
18	8.6	-3.0	-9.2	-3.7	-7.4	.1	6.3	9.3	-1.5	--	-7.4	-2.2	-.5	--
19	6.9	-3.1	-8.8	-3.4	-8.0	-.2	6.5	10.2	--	--	-5.9	-1.7	-.5	--
20	7.4	-3.5	-9.7	-3.1	-8.6	-1.1	5.5	9.7	--	--	-5.7	-1.4	-.3	--
21	8.6	-4.1	-8.6	-2.9	-9.0	-.7	5.0	9.7	-1.6	--	-4.9	-1.2	-.2	--
22	11.2	-3.9	-5.0	-4.5	-8.4	0	6.8	10.9	-.9	--	-5.8	-1.0	-.2	--
23	10.5	-3.5	-4.2	-6.1	-7.9	-.2	11.1	9.4	-1.8	--	-7.1	-1.1	-.2	--
24	8.8	-3.7	-11.1	-5.3	-7.6	.1	11.0	8.1	-1.2	--	-7.1	-1.1	-.5	--
25	8.4	-3.5	-12.3	-4.6	-6.4	.7	8.0	8.6	--	--	-7.6	-.8	-.4	--
26	8.4	-3.5	-7.0	-5.7	-3.8	.5	6.2	7.7	--	--	-6.4	-.6	-.1	--
27	6.0	-3.5	-8.1	-8.1	-2.6	1.5	5.0	8.1	-.8	-3.1	-5.6	-.5	-.5	--
28	8.0	-3.5	-9.0	-7.5	-2.9	4.8	6.3	8.8	-.7	-3.4	-4.4	-.5	-.7	--
29	8.9	-3.5	-9.6	-7.5	--	7.5	8.8	6.4	-.7	-3.0	-3.1	--	-.8	--
30	4.4	-3.3	-8.1	-7.4	--	7.2	9.8	7.0	-.9	-3.4	-2.6	--	-.8	--
31	4.6	--	-8.5	-6.6	--	7.8	--	7.1	--	--	-3.0	--	-.4	--

Table 22.--Daily mean recorded soil temperature data (degrees Celsius), for site 6--Continued

Depth 0.15 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	8.4	5.3	-3.8	-7.7	-5.9	-2.9	6.5	--	4.3	-0.8	--	-3.2	-0.6	-0.7
2	7.5	4.0	-6.3	-7.2	-5.0	-1.7	6.6	--	3.4	-.7	--	-2.4	-.6	-.6
3	8.0	5.5	-6.6	-6.8	-4.3	-.6	5.7	--	4.7	--	-3.2	-3.0	-.6	-.3
4	8.6	4.3	-5.7	-7.1	-3.9	-.1	4.5	--	3.0	--	-2.6	-4.0	-.8	.7
5	7.4	--	-5.0	-7.5	-3.5	0	4.9	10.7	4.6	--	-1.9	-3.1	-.9	2.1
6	7.1	--	-4.9	-8.7	-3.8	-.1	6.6	10.0	5.2	--	-1.8	-3.0	-.6	3.8
7	6.9	--	-4.7	-10.4	-3.9	-1.2	7.5	12.2	4.1	--	--	-2.6	-.6	5.7
8	5.6	--	-4.2	-9.7	-5.3	-1.9	6.8	10.3	3.2	--	-3.3	-2.6	-.6	7.1
9	4.0	--	-3.8	-7.3	-7.3	-.4	6.8	8.9	1.9	--	-4.0	-1.4	-.6	7.4
10	3.8	--	-3.8	-6.4	-8.8	-.2	8.2	9.3	--	--	-4.1	-1.4	-.7	6.3
11	5.3	--	-4.8	-5.6	-10.1	-.2	9.2	7.9	1.0	--	-3.6	-1.7	-.7	6.3
12	7.7	--	-5.6	-4.3	-10.7	-.1	6.3	6.1	--	--	-1.7	-1.0	-.7	6.6
13	8.1	--	-6.7	-4.6	-10.4	-.1	4.1	5.1	-.1	--	-2.1	-1.1	-.6	7.0
14	6.7	-.3	-7.2	-4.7	-10.3	0	3.0	5.1	-.2	--	-2.3	-1.9	-.5	6.9
15	6.0	-.4	-6.7	-5.0	-10.1	0	2.2	6.5	-.3	--	-4.8	-2.2	-.6	8.0
16	5.4	-.2	-6.8	-4.8	-9.2	-.1	2.5	7.8	-.2	--	-7.1	-2.1	-.6	9.5
17	7.0	-.4	-7.8	-4.3	-7.9	0	4.5	8.2	-1.3	--	-7.1	-1.8	-.5	10.9
18	8.2	-2.1	-8.3	-3.7	-7.2	0	6.1	9.1	-1.1	--	-7.5	-2.1	-.5	--
19	6.9	-2.6	-8.2	-3.4	-7.7	0	6.4	10.0	--	--	-6.1	-1.7	-.6	--
20	7.4	-3.0	-8.9	-3.1	-8.1	-.7	5.7	9.8	--	--	-6.0	-1.4	-.5	--
21	8.4	-3.3	-8.4	-2.9	-8.5	-.6	5.1	9.7	-1.3	--	-5.2	-1.2	-.4	--
22	10.7	-3.5	-5.4	-4.0	-8.1	-.2	6.5	10.7	-.9	--	-5.8	-1.0	-.5	--
23	10.6	-3.0	-4.0	-5.5	-7.7	-.4	10.2	9.8	-1.3	--	-7.1	-1.1	-.5	--
24	9.1	-3.1	-9.3	-5.1	-7.4	-.1	10.8	8.5	-1.1	--	-7.0	-1.1	-.5	--
25	8.4	-3.1	-11.0	-4.5	-6.5	.2	8.4	8.8	--	--	-7.6	-.9	-.5	--
26	8.6	-3.0	-7.4	-5.2	-4.4	.2	6.6	8.0	--	--	-6.7	-.6	-.5	--
27	6.5	-3.0	-7.5	-7.3	-2.9	.6	5.4	8.2	-.7	-3.0	-6.0	-.5	-.5	--
28	7.7	-3.1	-8.5	-7.1	-3.0	3.6	6.1	9.0	-.7	-3.3	-5.0	-.5	-.6	--
29	9.1	-3.1	-9.0	-7.1	--	6.6	8.4	7.0	-.6	-2.9	-3.7	--	-.7	--
30	5.2	-2.9	-8.0	-7.1	--	6.8	9.6	7.2	-.7	-3.2	-3.2	--	-.7	--
31	4.9	--	-8.1	-6.4	--	7.5	--	7.5	--	--	-3.5	--	-.5	--

Table 22.--Daily mean recorded soil temperature data (degrees Celsius), for site 6--Continued

Depth 0.20 meter														
Period: October 1985-April 1986								Period: October 1986-April 1987						
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	8.2	5.6	-3.1	-7.3	-5.8	-2.9	6.3	--	5.2	-0.5	--	-3.3	-0.6	-0.7
2	7.7	4.4	-5.1	-6.9	-5.0	-2.0	6.5	--	4.1	-.5	--	-2.5	-.6	-.6
3	8.2	5.6	-6.0	-6.5	-4.3	-.9	5.8	--	5.1	--	-3.0	-3.0	-.6	-.4
4	8.7	4.6	-5.4	-6.8	-3.9	-.3	4.7	--	3.6	--	-2.5	-3.8	-.9	.3
5	7.7	--	-4.6	-7.0	-3.5	0	4.8	10.9	4.7	--	-1.9	-3.3	-1.0	1.6
6	7.3	--	-4.5	-7.9	-3.6	0	6.1	10.2	5.4	--	-1.7	-3.1	-.7	3.4
7	7.3	--	-4.3	-9.8	-3.7	-.6	7.2	11.8	4.6	--	--	-2.7	-.7	5.1
8	6.2	--	-3.9	-9.3	-4.7	-1.6	6.7	10.7	3.7	--	-2.9	-2.7	-.6	6.5
9	4.6	--	-3.6	-7.3	-6.5	-.4	6.6	9.3	2.5	--	-3.5	-1.6	-.6	7.1
10	4.1	--	-3.4	-6.2	-8.0	-.2	7.8	9.5	--	--	-3.7	-1.4	-.7	6.3
11	5.4	--	-4.1	-5.6	-9.2	-.2	8.9	8.5	1.4	--	-3.5	-1.7	-.7	6.1
12	7.6	--	-5.0	-4.3	-9.9	-.2	6.9	6.8	--	--	-1.9	-1.1	-.6	6.4
13	8.1	--	-5.8	-4.3	-9.8	-.1	4.7	5.7	.5	--	-2.2	-1.1	-.6	6.9
14	7.0	.1	-6.5	-4.5	-9.7	0	3.4	5.5	.3	--	-2.4	-1.7	-.5	6.7
15	6.3	0	-6.2	-4.8	-9.6	0	2.6	6.6	.1	--	-4.2	-2.0	-.6	7.6
16	5.6	.1	-6.2	-4.7	-8.9	-.1	2.6	7.7	.2	--	-6.4	-2.0	-.6	9.0
17	6.9	0	-7.2	-4.2	-7.8	0	4.3	8.2	-.7	--	-6.6	-1.7	-.5	10.3
18	7.8	-1.4	-7.5	-3.6	-7.0	0	5.8	9.0	-.7	--	-7.0	-1.9	-.6	--
19	7.0	-2.0	-7.6	-3.4	-7.3	0	6.2	9.8	--	--	-5.8	-1.7	-.6	--
20	7.4	-2.4	-8.1	-3.1	-7.7	-.4	5.9	9.8	--	--	-5.8	-1.4	-.6	--
21	8.3	-2.7	-8.0	-2.8	-8.1	-.5	5.2	9.7	-.9	--	-5.0	-1.2	-.5	--
22	10.3	-3.0	-5.6	-3.6	-7.8	-.3	6.2	10.6	-.7	--	-5.5	-1.0	-.6	--
23	10.5	-2.5	-4.0	-4.9	-7.5	-.6	9.3	10.1	-.9	--	-6.6	-1.1	-.6	--
24	9.3	-2.6	-7.8	-4.9	-7.2	-.1	10.4	8.9	-.8	--	-6.6	-1.1	-.5	--
25	8.5	-2.6	-9.8	-4.3	-6.5	0	8.7	8.9	--	--	-7.2	-1.0	-.6	--
26	8.8	-2.6	-7.4	-4.7	-4.8	.1	6.9	8.3	--	--	-6.6	-.7	-.7	--
27	6.9	-2.5	-6.9	-6.6	-3.2	0	5.8	8.4	-.6	-2.8	-5.9	-.6	-.5	--
28	7.5	-2.6	-7.9	-6.7	-3.0	2.5	6.0	9.0	-.5	-3.0	-5.0	-.6	-.5	--
29	9.2	-2.6	-8.3	-6.6	--	5.7	8.0	7.6	-.4	-2.7	-3.9	--	-.6	--
30	5.8	-2.6	-7.7	-6.7	--	6.5	9.3	7.4	-.4	-2.9	-3.3	--	-.6	--
31	5.2	--	-7.6	-6.2	--	7.1	--	7.9	--	--	-3.5	--	-.5	--

Table 22.--Daily mean recorded soil temperature data (degrees Celsius), for site 6--Continued

Depth 0.25 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	8.3	5.9	-2.4	-6.9	-5.5	-2.9	6.1	--	5.9	-0.2	--	-3.0	-0.6	-0.7
2	8.1	4.9	-3.9	-6.5	-4.9	-2.2	6.4	--	4.7	-.1	--	-2.3	-.6	-.6
3	8.4	5.8	-5.0	-6.1	-4.2	-1.2	5.8	--	5.4	--	-2.7	-2.7	-.6	-.4
4	8.8	5.1	-4.8	-6.3	-3.9	-.5	4.8	--	4.2	--	-2.3	-3.3	-.8	.2
5	8.1	--	-4.2	-6.5	-3.4	-.1	4.8	11.1	4.9	--	-1.8	-3.0	-.9	1.3
6	7.6	--	-4.0	-7.2	-3.4	-.1	5.7	10.5	5.6	--	-1.6	-2.8	-.6	3.0
7	7.7	--	-3.9	-8.9	-3.5	-.3	6.9	11.6	5.0	--	--	-2.4	-.6	4.6
8	6.7	--	-3.6	-8.7	-4.2	-1.2	6.6	11.0	4.2	--	-2.5	-2.4	-.6	6.0
9	5.2	--	-3.3	-7.1	-5.7	-.5	6.5	9.7	3.0	--	-3.0	-1.6	-.5	6.8
10	4.7	--	-3.0	-6.0	-7.1	-.3	7.5	9.7	--	--	-3.2	-1.3	-.7	6.2
11	5.6	--	-3.5	-5.4	-8.2	-.2	8.6	9.0	1.9	--	-3.2	-1.5	-.6	5.9
12	7.5	--	-4.3	-4.4	-9.0	-.2	7.3	7.4	--	--	-2.0	-1.1	-.5	6.2
13	8.2	--	-5.0	-4.1	-9.2	-.2	5.2	6.3	1.0	--	-2.1	-1.0	-.5	6.8
14	7.3	.6	-5.7	-4.2	-9.0	-.1	3.9	6.0	.7	--	-2.2	-1.4	-.5	6.5
15	6.8	.5	-5.6	-4.5	-9.0	0	3.0	6.7	.6	--	-3.4	-1.8	-.5	7.3
16	6.0	.5	-5.6	-4.4	-8.5	-.1	2.7	7.7	.6	--	-5.4	-1.8	-.5	8.5
17	7.0	.5	-6.5	-4.0	-7.6	0	4.1	8.2	-.2	--	-5.8	-1.6	-.5	9.7
18	7.6	-.7	-6.6	-3.5	-6.8	0	5.6	9.0	-.3	--	-6.2	-1.7	-.5	--
19	7.2	-1.1	-6.9	-3.2	-6.9	0	6.0	9.7	--	--	-5.1	-1.6	-.5	--
20	7.5	-1.6	-7.3	-3.0	-7.2	-.2	6.0	9.8	--	--	-5.3	-1.3	-.5	--
21	8.3	-2.1	-7.4	-2.7	-7.6	-.3	5.2	9.7	-.5	--	-4.5	-1.2	-.5	--
22	10.0	-2.3	-5.6	-3.2	-7.4	-.3	6.0	10.4	-.4	--	-4.9	-1.0	-.5	--
23	10.5	-2.0	-4.0	-4.3	-7.1	-.7	8.6	10.3	-.4	--	-5.9	-1.0	-.6	--
24	9.5	-1.9	-6.5	-4.5	-6.9	-.1	10.0	9.2	-.5	--	-5.9	-1.0	-.5	--
25	8.7	-1.9	-8.5	-4.0	-6.4	0	8.9	9.1	--	--	-6.5	-1.0	-.5	--
26	9.0	-1.9	-7.2	-4.3	-5.0	.1	7.1	8.6	--	--	-6.1	-.7	-.7	--
27	7.4	-1.9	-6.4	-5.8	-3.5	-.1	6.1	8.5	-.3	-2.5	-5.5	-.5	-.5	--
28	7.6	-2.0	-7.2	-6.2	-3.1	1.6	5.9	9.1	-.2	-2.6	-4.7	-.5	-.5	--
29	9.2	-2.0	-7.6	-6.2	--	4.9	7.7	8.0	-.1	-2.4	-3.7	--	-.5	--
30	6.6	-2.0	-7.3	-6.3	--	6.1	9.0	7.6	-.1	-2.5	-3.1	--	-.5	--
31	5.7	--	-7.0	-5.9	--	6.8	--	8.1	--	--	-3.2	--	-.5	--

Table 22.--Daily mean recorded soil temperature data (degrees Celsius), for site 6--Continued

Depth 0.30 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	8.4	6.2	-1.9	-6.4	-5.2	-2.9	6.0	--	6.6	0.5	--	-0.9	-0.1	0.1
2	8.4	5.4	-3.0	-6.1	-4.7	-2.3	6.3	--	5.3	.3	--	-.8	-.1	-.1
3	8.7	6.0	-4.3	-5.7	-4.1	-1.5	5.8	--	5.8	--	-2.0	-.6	-.1	.1
4	8.9	5.4	-4.2	-5.8	-3.8	-.7	5.0	--	4.8	--	-1.7	-1.0	.2	.4
5	8.5	--	-3.7	-6.0	-3.3	-.2	4.8	11.4	5.2	--	-1.2	-.9	-.1	1.3
6	7.9	--	-3.5	-6.5	-3.2	-.1	5.4	10.7	5.8	--	-.9	-.7	-.1	2.7
7	8.0	--	-3.4	-8.0	-3.2	-.2	6.6	11.6	5.4	--	--	-.5	-.1	4.3
8	7.1	--	-3.2	-8.1	-3.7	-.8	6.5	11.4	4.6	--	-1.7	-.2	0	5.7
9	5.8	--	-2.9	-6.8	-5.0	-.5	6.3	10.1	3.5	--	-2.1	-1.1	0	6.5
10	5.2	--	-2.7	-5.8	-6.2	-.3	7.2	10.0	--	--	-2.4	-.7	-.2	6.1
11	5.8	--	-2.9	-5.2	-7.3	-.2	8.3	9.4	2.4	--	-2.5	-.9	0	5.9
12	7.4	--	-3.6	-4.3	-8.1	-.2	7.5	8.0	--	--	-1.4	-.6	-.1	6.1
13	8.2	--	-4.2	-3.9	-8.4	-.2	5.6	6.9	1.5	--	-1.0	-.5	0	6.7
14	7.6	1.0	-4.9	-3.9	-8.4	-.1	4.3	6.4	1.2	--	-.1	-.7	.1	6.8
15	7.1	1.0	-5.0	-4.1	-8.4	-.1	3.3	7.0	1.0	--	-1.1	-1.1	-.1	7.4
16	6.3	.9	-5.0	-4.1	-8.1	-.1	2.8	7.9	1.0	--	-2.8	-1.2	0	8.4
17	7.0	.9	-5.8	-3.8	-7.3	0	4.0	8.4	.9	--	-3.3	-1.0	0	9.2
18	7.4	-.1	-5.8	-3.4	-6.5	0	5.4	9.0	.6	--	-3.7	-1.1	0	--
19	7.3	-.6	-6.2	-3.1	-6.5	0	5.9	9.7	--	--	-3.2	-1.0	-.1	--
20	7.6	-.9	-6.5	-2.9	-6.7	0	5.9	10.0	--	--	-3.0	-.7	0	--
21	8.2	-1.4	-6.7	-2.6	-7.1	-.1	5.3	9.8	.3	--	-2.6	-.6	0	--
22	9.7	-1.8	-5.5	-2.9	-7.0	-.3	5.8	10.4	.3	--	-2.5	-.5	-.2	--
23	10.3	-1.6	-3.9	-3.8	-6.8	-.6	8.0	10.5	.3	--	-3.5	-.3	-.1	--
24	9.6	-1.4	-5.5	-4.1	-6.5	-.1	9.6	9.5	.3	--	-3.3	-.5	-.1	--
25	8.8	-1.5	-7.3	-3.8	-6.1	0	8.9	9.3	--	--	-4.0	-.4	-.1	--
26	9.1	-1.5	-6.9	-3.9	-5.1	.1	7.3	8.9	--	--	-3.9	-.2	.1	--
27	7.8	-1.5	-5.9	-5.1	-3.7	-.1	6.3	8.7	.4	-1.8	-3.4	0	0	--
28	7.6	-1.6	-6.5	-5.7	-3.1	1.0	5.9	9.2	.5	-1.9	-2.6	0	0	--
29	9.1	-1.6	-6.9	-5.7	--	4.1	7.4	8.4	.6	-1.8	-1.8	--	-.1	--
30	7.2	-1.6	-6.8	-5.8	--	5.7	8.7	7.9	.6	-1.8	-1.1	--	0	--
31	6.1	--	-6.5	-5.6	--	6.4	--	8.4	--	--	-1.1	--	-.1	--

Table 22.--Daily mean recorded soil temperature data (degrees Celsius), for site 6--Continued

Depth 0.40 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	9.0	6.8	-1.0	-5.4	-4.6	-2.9	5.8	--	7.5	0.9	--	-1.0	-0.3	0.2
2	9.0	6.3	-1.6	-5.2	-4.2	-2.6	6.1	--	6.2	.8	--	-1.0	-.3	.1
3	9.1	6.4	-2.8	-4.9	-3.7	-1.9	5.9	--	6.3	--	-1.6	-.6	-.2	.3
4	9.3	6.2	-3.0	-4.9	-3.5	-.8	5.2	--	5.6	--	-1.4	-.9	0	.6
5	9.1	--	-2.6	-5.0	-3.0	-.5	4.8	11.7	5.6	--	-1.1	-.9	-.2	1.2
6	8.6	--	-2.5	-5.3	-2.8	-.2	5.1	11.2	6.1	--	-.8	-.8	-.2	2.3
7	8.6	--	-2.4	-6.3	-2.9	-.2	6.2	11.5	5.9	--	--	-.7	-.2	3.7
8	8.0	--	-2.3	-6.8	-3.0	-.4	6.3	11.6	5.3	--	-1.2	-.4	-.1	5.0
9	7.0	--	-2.2	-6.3	-3.8	-.4	6.2	10.7	4.4	--	-1.5	-1.1	0	5.9
10	6.3	--	-2.0	-5.2	-4.8	-.3	6.8	10.3	--	--	-1.8	-.7	-.2	5.8
11	6.4	--	-2.0	-4.8	-5.7	-.2	7.7	10.0	3.2	--	-1.9	-.8	-.1	5.6
12	7.4	--	-2.7	-4.2	-6.5	-.2	7.5	8.9	--	--	-1.3	-.7	-.2	5.8
13	8.2	--	-2.9	-3.5	-7.1	-.1	6.2	7.8	2.3	--	-1.0	-.5	-.1	6.3
14	8.1	1.9	-3.7	-3.4	-7.1	0	4.9	7.2	2.0	--	-.3	-.5	0	6.1
15	7.7	1.9	-3.7	-3.5	-7.2	0	3.9	7.4	1.8	--	-.7	-.9	-.2	6.6
16	7.1	1.7	-3.8	-3.6	-7.0	-.1	3.3	8.0	1.7	--	-1.9	-1.0	-.1	7.5
17	7.3	1.7	-4.4	-3.4	-6.6	.1	4.0	8.5	1.5	--	-2.5	-.9	-.1	8.4
18	7.5	.9	-4.5	-3.1	-6.0	.1	5.1	9.0	1.2	--	-2.9	-.9	-.1	--
19	7.6	.6	-4.9	-2.8	-5.8	.1	5.6	9.6	--	--	-2.8	-.9	-.1	--
20	7.8	.4	-5.0	-2.5	-5.9	0	5.9	10.0	--	--	-2.6	-.7	-.1	--
21	8.2	-.1	-5.4	-2.4	-6.2	0	5.4	9.9	.9	--	-2.3	-.6	0	--
22	9.2	-.7	-5.0	-2.3	-6.3	0	5.7	10.3	.8	--	-2.2	-.5	-.1	--
23	10.0	-.6	-3.8	-2.9	-6.0	-.3	7.1	10.6	.8	--	-2.9	-.3	-.1	--
24	9.8	-.5	-4.1	-3.5	-5.9	.1	8.8	9.8	.8	--	-2.7	-.4	0	--
25	9.2	-.6	-5.5	-3.5	-5.7	.2	8.8	9.5	--	--	-3.4	-.4	0	--
26	9.3	-.7	-6.0	-3.2	-5.0	.2	7.5	9.2	--	--	-3.5	-.3	.2	--
27	8.5	-.7	-5.0	-3.9	-3.9	.1	6.7	9.0	.8	-1.4	-3.1	-.2	.1	--
28	8.0	-.7	-5.5	-4.6	-3.2	.7	6.0	9.3	.9	-1.4	-2.5	-.2	.1	--
29	9.0	-.8	-5.6	-4.7	--	3.1	7.0	8.9	1.0	-1.4	-1.9	--	0	--
30	8.1	-.8	-5.9	-4.8	--	5.1	8.1	8.3	1.0	-1.4	-1.3	--	.1	--
31	7.0	--	-5.5	-4.8	--	5.8	--	8.6	--	--	-1.2	--	.1	--

Table 22.--Daily mean recorded soil temperature data (degrees Celsius), for site 6--Continued

Depth 0.50 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	9.7	7.4	-0.2	-4.5	-3.9	-2.9	5.4	--	8.1	1.3	--	-1.0	-0.3	0.3
2	9.6	7.1	-.5	-4.4	-3.7	-2.6	5.7	--	7.0	1.2	--	-1.1	-.3	.2
3	9.6	6.9	-1.5	-4.2	-3.4	-2.1	5.7	--	6.8	--	-1.1	-.7	-.3	.4
4	9.7	6.8	-1.9	-4.2	-3.2	-1.1	5.2	--	6.3	--	-1.0	-.8	0	.8
5	9.6	--	-1.7	-4.2	-2.7	-.7	4.8	11.9	6.1	--	-.8	-.9	-.2	1.2
6	9.2	--	-1.7	-4.4	-2.5	-.4	4.9	11.5	6.4	--	-.7	-.8	-.2	2.1
7	9.2	--	-1.6	-5.0	-2.5	-.3	5.8	11.6	6.4	--	--	-.7	-.3	3.2
8	8.7	--	-1.6	-5.5	-2.5	-.4	6.0	11.8	5.9	--	-.8	-.5	-.2	4.3
9	8.0	--	-1.5	-5.5	-3.0	-.3	6.0	11.1	5.2	--	-1.0	-.9	-.1	5.3
10	7.4	--	-1.4	-4.6	-3.7	-.3	6.4	10.7	--	--	-1.3	-.6	-.3	5.4
11	7.2	--	-1.3	-4.2	-4.5	-.2	7.1	10.5	4.0	--	-1.4	-.6	-.1	5.4
12	7.6	--	-1.8	-3.8	-5.2	-.2	7.3	9.6	--	--	-1.1	-.6	-.1	5.5
13	8.3	--	-1.9	-3.2	-5.7	-.1	6.4	8.6	3.1	--	-.8	-.5	0	5.9
14	8.4	2.8	-2.5	-3.0	-5.9	0	5.3	8.0	2.8	--	-.3	-.4	.1	6.7
15	8.2	2.8	-2.6	-3.0	-6.0	0	4.4	7.9	2.6	--	-.6	-.6	0	6.9
16	7.8	2.6	-2.8	-3.0	-6.0	-.1	3.7	8.3	2.4	--	-1.2	-.8	0	7.3
17	7.7	2.6	-3.5	-2.9	-5.8	.1	4.1	8.7	2.1	--	-1.8	-.7	.1	7.7
18	7.8	1.8	-3.5	-2.7	-5.4	.2	4.8	9.1	1.8	--	-2.1	-.7	0	--
19	8.0	1.4	-3.7	-2.4	-5.1	.2	5.4	9.6	--	--	-2.3	-.7	0	--
20	8.1	1.2	-3.9	-2.2	-5.2	.1	5.7	10.0	--	--	-2.2	-.6	.1	--
21	8.4	1.0	-4.2	-2.1	-5.3	.2	5.5	10.0	1.4	--	-2.0	-.6	.2	--
22	9.0	.4	-4.2	-2.0	-5.5	.1	5.5	10.3	1.4	--	-1.8	-.5	0	--
23	9.7	.3	-3.4	-2.2	-5.3	-.2	6.5	10.6	1.4	--	-2.3	-.2	0	--
24	9.8	.3	-3.2	-2.8	-5.2	.2	8.0	10.1	1.3	--	-2.1	-.3	.1	--
25	9.4	.3	-4.0	-2.9	-5.1	.3	8.4	9.8	--	--	-2.7	-.4	.1	--
26	9.4	.2	-4.7	-2.7	-4.7	.3	7.6	9.5	--	--	-3.0	-.3	.3	--
27	9.0	.1	-4.2	-3.0	-3.9	.2	6.8	9.3	1.3	-.9	-2.8	-.2	.3	--
28	8.5	0	-4.4	-3.6	-3.2	.7	6.1	9.5	1.3	-.9	-2.3	-.2	.3	--
29	8.9	0	-4.5	-3.9	--	2.4	6.7	9.2	1.4	-1.0	-1.9	--	.2	--
30	8.7	0	-4.8	-3.9	--	4.4	7.7	8.7	1.4	-.9	-1.3	--	.3	--
31	7.7	--	-4.6	-4.0	--	5.2	--	8.8	--	--	-1.1	--	.3	--

Table 22.--Daily mean recorded soil temperature data (degrees Celsius), for site 6--Continued

Depth 0.60 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	10.4	8.0	0.5	-3.6	-3.2	-2.7	5.1	--	8.6	1.8	--	-0.8	-0.3	0.5
2	10.2	7.7	.4	-3.5	-3.1	-2.5	5.4	--	7.7	1.7	--	-1.0	-.3	.4
3	10.1	7.4	-.4	-3.5	-2.9	-2.1	5.5	--	7.4	--	-0.6	-.6	-.2	.6
4	10.1	7.3	-.9	-3.4	-2.8	-1.3	5.2	--	7.0	--	-.6	-.6	0	.9
5	10.1	--	-.7	-3.4	-2.4	-.8	4.8	12.2	6.7	--	-.5	-.7	-.2	1.2
6	9.8	--	-.8	-3.5	-2.2	-.6	4.8	11.9	6.8	--	-.4	-.7	-.1	1.9
7	9.7	--	-.8	-3.9	-2.1	-.5	5.4	11.8	6.8	--	--	-.7	-.2	2.8
8	9.3	--	-.8	-4.4	-2.1	-.4	5.8	11.9	6.5	--	-.4	-.4	0	3.8
9	8.8	--	-.7	-4.5	-2.3	-.3	5.8	11.5	5.9	--	-.5	-.8	.1	4.7
10	8.2	--	-.7	-3.8	-2.8	-.3	6.1	11.1	--	--	-.6	-.5	-.1	5.0
11	7.9	--	-.6	-3.5	-3.4	-.2	6.7	10.8	4.8	--	-.8	-.5	.1	5.1
12	8.1	--	-.9	-3.2	-4.0	-.2	7.0	10.2	--	--	-.7	-.5	.1	5.2
13	8.6	--	-1.0	-2.8	-4.5	-.1	6.5	9.3	3.9	--	-.6	-.4	.2	5.6
14	8.8	3.7	-1.4	-2.5	-4.8	0	5.6	8.7	3.6	--	-.1	-.3	.3	6.0
15	8.7	3.6	-1.6	-2.4	-4.9	0	4.8	8.4	3.3	--	-.4	-.5	.1	6.2
16	8.3	3.4	-1.8	-2.5	-5.0	0	4.1	8.6	3.1	--	-.6	-.5	.2	6.6
17	8.2	3.3	-2.5	-2.4	-4.9	.2	4.2	8.9	2.7	--	-.9	-.5	.3	7.1
18	8.3	2.5	-2.5	-2.3	-4.7	.3	4.7	9.2	2.5	--	-1.3	-.5	.2	--
19	8.3	2.4	-2.5	-2.0	-4.4	.4	5.2	9.6	--	--	-1.7	-.5	.2	--
20	8.4	2.2	-2.7	-1.8	-4.5	.3	5.5	10.0	--	--	-1.5	-.4	.2	--
21	8.6	1.9	-3.0	-1.8	-4.5	.4	5.5	10.1	2.1	--	-1.5	-.4	.3	--
22	9.0	1.4	-3.2	-1.6	-4.7	.2	5.5	10.3	2.0	--	-1.3	-.4	.2	--
23	9.6	1.2	-2.8	-1.7	-4.5	0	6.1	10.5	1.9	--	-1.7	-.2	.2	--
24	9.8	1.2	-2.5	-2.1	-4.5	.3	7.3	10.3	1.9	--	-1.4	-.2	.3	--
25	9.6	1.1	-2.9	-2.2	-4.4	.5	7.9	10.0	--	--	-2.0	-.3	.3	--
26	9.6	1.0	-3.5	-2.1	-4.2	.5	7.5	9.8	--	--	-2.4	-.3	.4	--
27	9.4	.9	-3.4	-2.3	-3.6	.4	6.9	9.6	1.8	-.4	-2.3	-.2	.4	--
28	8.9	.8	-3.4	-2.7	-3.1	.8	6.3	9.6	1.8	-.4	-1.9	-.2	.4	--
29	9.0	.8	-3.5	-3.0	--	2.0	6.6	9.5	1.9	-.5	-1.7	--	.3	--
30	9.1	.7	-3.8	-3.1	--	3.8	7.3	9.1	1.9	-.5	-1.2	--	.4	--
31	8.4	--	-3.7	-3.2	--	4.7	--	9.1	--	--	-1.0	--	.4	--

Table 22.--Daily mean recorded soil temperature data (degrees Celsius), for site 6--Continued

Depth 0.80 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	11.4	8.8	1.9	-1.9	-1.8	-2.2	4.2	--	9.4	2.8	--	-0.5	0.2	0.8
2	11.2	8.6	1.9	-1.9	-1.8	-2.1	4.6	--	8.8	2.6	--	-.7	.3	.7
3	11.0	8.4	1.5	-2.0	-1.7	-1.8	4.9	--	8.4	--	0.4	-.4	.3	1.0
4	10.9	8.2	.9	-2.0	-1.8	-1.2	4.9	--	8.0	--	.4	-.4	.4	1.3
5	10.8	--	.9	-2.0	-1.5	-.8	4.7	12.7	7.8	--	.4	-.3	.3	1.5
6	10.7	--	.8	-2.0	-1.4	-.6	4.7	12.4	7.6	--	.4	-.3	.3	1.8
7	10.5	--	.7	-2.1	-1.3	-.5	4.9	12.2	7.6	--	--	-.4	.3	2.4
8	10.2	--	.7	-2.4	-1.2	-.4	5.2	12.2	7.4	--	.4	-.2	.4	3.1
9	10.0	--	.6	-2.6	-1.3	-.2	5.4	12.0	7.0	--	.4	-.3	.5	3.8
10	9.5	--	.6	-2.2	-1.4	-.2	5.6	11.7	--	--	.3	-.1	.4	4.3
11	9.2	--	.7	-2.1	-1.7	-.1	6.0	11.4	6.1	--	.3	-.1	.5	4.6
12	9.0	--	.5	-2.0	-2.1	0	6.3	11.0	--	--	.2	-.1	.5	4.8
13	9.2	--	.5	-1.7	-2.5	.1	6.3	10.5	5.4	--	.2	-.1	.6	5.0
14	9.3	5.3	.2	-1.5	-2.8	.2	5.9	9.9	5.1	--	.5	.1	.7	5.7
15	9.3	5.1	0	-1.4	-2.9	.3	5.3	9.5	4.8	--	.2	0	.6	5.8
16	9.2	4.9	-.2	-1.4	-3.1	.4	4.7	9.4	4.6	--	.2	0	.6	5.9
17	9.0	4.7	-.7	-1.3	-3.2	.6	4.6	9.5	4.0	--	.1	0	.7	6.2
18	9.0	3.9	-.8	-1.3	-3.1	.7	4.7	9.7	3.8	--	0	0	.6	--
19	9.0	3.7	-.8	-1.2	-3.1	.7	5.0	9.9	--	--	-.3	.1	.6	--
20	9.0	3.7	-.8	-1.0	-3.1	.7	5.3	10.1	--	--	-.3	.1	.6	--
21	9.0	3.5	-1.1	-1.0	-3.0	.7	5.4	10.2	3.3	--	-.4	.1	.7	--
22	9.2	3.1	-1.3	-.8	-3.2	.7	5.4	10.4	3.2	--	-.2	.1	.6	--
23	9.5	2.8	-1.2	-.8	-3.1	.4	5.6	10.6	3.1	--	-.4	.3	.6	--
24	9.8	2.7	-1.1	-1.0	-3.1	.7	6.4	10.5	2.0	--	0	.3	.7	--
25	9.9	2.7	-1.1	-1.1	-3.1	.9	7.0	10.4	--	--	-.4	.2	.6	--
26	9.8	2.5	-1.5	-1.0	-3.0	1.0	7.1	10.2	--	--	-.8	.2	.8	--
27	9.7	2.4	-1.6	-1.1	-2.8	.9	6.8	10.1	2.9	.6	-1.0	.3	.7	--
28	9.5	2.3	-1.7	-1.2	-2.5	1.2	6.5	10.0	2.8	.6	-.8	.3	.8	--
29	9.4	2.2	-1.7	-1.5	--	1.7	6.4	10.0	2.9	.5	-.9	--	.7	--
30	9.5	2.1	-1.9	-1.6	--	2.8	6.7	9.7	2.8	.5	-.6	--	.8	--
31	9.2	--	-1.9	-1.7	--	3.7	--	9.6	--	--	-.6	--	.8	--

Table 22.--Daily mean recorded soil temperature data (degrees Celsius), for site 6--Continued

Depth 1.00 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	12.2	9.5	3.3	-0.4	-0.5	-1.4	3.5	--	9.9	3.7	--	0	0.8	1.1
2	12.0	9.3	3.2	-.4	-.6	-1.4	4.0	--	9.6	3.6	--	-.2	.8	1.1
3	11.8	9.1	3.0	-.5	-.6	-1.2	4.3	--	9.3	--	1.3	0	.9	1.3
4	11.6	8.9	2.5	-.5	-.7	-.7	4.5	--	8.9	--	1.3	.1	.9	1.7
5	11.4	--	2.5	-.5	-.5	-.5	4.5	13.0	8.7	--	1.3	.1	.8	1.8
6	11.4	--	2.4	-.5	-.4	-.3	4.5	12.8	8.5	--	1.3	.1	.9	2.0
7	11.2	--	2.2	-.6	-.4	-.2	4.6	12.5	8.3	--	--	.1	.8	2.3
8	10.9	--	2.2	-.9	-.3	-.1	4.8	12.5	8.2	--	1.3	.3	1.0	2.8
9	10.8	--	2.1	-.9	-.3	.1	5.1	12.3	8.0	--	1.3	.4	1.0	3.3
10	10.5	--	1.9	-.6	-.3	.2	5.2	12.2	--	--	1.2	.6	.9	3.8
11	10.2	--	2.0	-.7	-.5	.3	5.5	11.9	7.2	--	1.1	.6	.9	4.2
12	10.0	--	1.8	-.6	-.6	.4	5.8	11.7	--	--	1.1	.6	1.0	4.4
13	9.9	--	1.8	-.5	-.9	.5	5.9	11.2	6.6	--	1.0	.6	1.1	4.6
14	9.9	6.6	1.6	-.4	-1.1	.7	5.8	10.8	6.4	--	1.0	.8	1.2	5.9
15	10.0	6.4	1.6	-.3	-1.2	.8	5.5	10.5	6.1	--	.8	.7	1.0	6.0
16	9.9	6.2	1.3	-.3	-1.3	.8	5.0	10.2	5.9	--	.7	.7	1.1	5.7
17	9.8	6.1	.7	-.2	-1.5	1.0	4.9	10.1	5.2	--	.7	.7	1.1	5.5
18	9.7	5.2	.8	-.2	-1.6	1.1	4.8	10.2	5.0	--	.6	.7	1.1	--
19	9.6	5.1	.9	-.1	-1.6	1.1	4.9	10.2	--	--	.4	.7	1.0	--
20	9.6	5.1	.8	0	-1.7	1.1	5.1	10.3	--	--	.4	.8	1.0	--
21	9.6	4.9	.6	0	-1.7	1.2	5.3	10.5	4.5	--	.3	.7	1.1	--
22	9.6	4.6	.3	.1	-1.8	1.1	5.3	10.6	4.3	--	.4	.7	1.0	--
23	9.7	4.3	.3	.2	-1.7	.9	5.4	10.7	4.2	--	.3	1.0	1.0	--
24	9.9	4.2	.3	0	-1.8	1.2	5.8	10.7	4.1	--	.7	.9	1.1	--
25	10.0	4.1	.3	0	-1.8	1.3	6.3	10.7	--	--	.4	.8	1.0	--
26	10.1	4.0	.1	0	-1.8	1.4	6.6	10.6	--	--	0	.8	1.1	--
27	10.0	3.8	0	0	-1.7	1.3	6.6	10.5	3.9	1.6	-.2	.9	1.1	--
28	9.9	3.7	-.1	0	-1.6	1.6	6.5	10.4	3.9	1.5	0	.9	1.2	--
29	9.8	3.6	-.1	-.2	--	1.8	6.3	10.3	3.9	1.5	-.2	--	1.1	--
30	9.8	3.5	-.3	-.2	--	2.3	6.5	10.2	3.8	1.5	0	--	1.1	--
31	9.7	--	-.3	-.4	--	3.0	--	10.0	--	--	-.1	--	1.1	--

Table 22.--Daily mean recorded soil temperature data (degrees Celsius), for site 6--Continued

Depth 1.25 meters														
Period: October 1985-April 1986								Period: October 1986-April 1987						
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	12.7	10.0	4.6	1.2	0.8	-0.4	3.1	--	10.3	4.8	--	0.8	1.5	1.6
2	12.5	9.9	4.5	1.1	.7	-.4	3.5	--	10.2	4.7	--	.6	1.5	1.6
3	12.3	9.8	4.3	1.0	.7	-.3	3.8	--	10.1	--	2.4	.8	1.5	1.8
4	12.1	9.6	4.1	1.0	.5	.1	4.1	--	9.7	--	2.4	.8	1.5	2.2
5	12.0	--	4.0	.9	.6	.3	4.2	13.2	9.6	--	2.3	.8	1.4	2.2
6	11.9	--	3.8	.9	.7	.4	4.3	13.0	9.3	--	2.2	.8	1.5	2.3
7	11.8	--	3.7	.8	.6	.5	4.3	12.8	9.2	--	--	.8	1.5	2.5
8	11.5	--	3.6	.6	.7	.6	4.5	12.7	9.0	--	2.2	.9	1.6	2.8
9	11.4	--	3.5	.6	.7	.8	4.7	12.6	8.8	--	2.2	1.2	1.7	3.1
10	11.3	--	3.3	.9	.7	.8	4.9	12.5	--	--	2.2	1.4	1.5	3.4
11	11.1	--	3.3	.8	.7	1.0	5.1	12.3	8.3	--	2.1	1.4	1.5	3.8
12	10.8	--	3.1	.8	.6	1.0	5.3	12.1	--	--	2.1	1.4	1.5	4.0
13	10.7	--	3.2	.8	.4	1.1	5.5	11.8	7.8	--	1.9	1.4	1.6	4.2
14	10.6	7.8	3.0	.9	.3	1.3	5.6	11.6	7.7	--	1.9	1.5	1.7	4.9
15	10.5	7.6	3.0	.9	.2	1.3	5.5	11.3	7.4	--	1.5	1.4	1.6	5.1
16	10.5	7.4	2.8	.9	.1	1.3	5.2	11.0	7.2	--	1.5	1.4	1.6	5.1
17	10.4	7.3	2.6	1.0	0	1.5	5.2	10.8	6.4	--	1.5	1.4	1.7	5.0
18	10.3	6.4	2.5	.9	-.1	1.6	5.0	10.8	6.2	--	1.5	1.4	1.7	--
19	10.2	6.3	2.4	1.0	-.2	1.6	5.0	10.7	--	--	1.2	1.5	1.6	--
20	10.2	6.1	2.3	1.1	-.3	1.6	5.0	10.7	--	--	1.3	1.5	1.6	--
21	10.1	6.1	2.2	1.0	-.3	1.7	5.2	10.8	5.7	--	1.2	1.5	1.6	--
22	10.1	5.8	2.0	1.1	-.4	1.6	5.2	10.8	5.6	--	1.3	1.5	1.5	--
23	10.1	5.6	1.9	1.2	-.3	1.4	5.3	10.9	5.4	--	1.1	1.7	1.5	--
24	10.2	5.5	1.8	1.1	-.3	1.7	5.5	10.9	5.3	--	1.6	1.6	1.6	--
25	10.2	5.4	1.8	1.0	-.4	1.9	5.7	11.0	--	--	1.3	1.5	1.6	--
26	10.3	5.2	1.7	1.1	-.5	1.9	6.0	10.9	--	--	.9	1.5	1.6	--
27	10.3	5.1	1.6	1.1	-.4	1.8	6.2	10.8	5.0	2.7	.8	1.6	1.6	--
28	10.3	5.0	1.4	1.1	-.4	2.0	6.2	10.8	5.0	2.7	.9	1.6	1.6	--
29	10.2	4.9	1.4	1.0	--	2.2	6.2	10.7	5.0	2.6	.7	--	1.5	--
30	10.1	4.8	1.2	1.0	--	2.4	6.2	10.6	4.9	2.6	.8	--	1.6	--
31	10.1	--	1.2	.9	--	2.8	--	10.5	--	--	.7	--	1.6	--

Table 22.--Daily mean recorded soil temperature data (degrees Celsius), for site 6--Continued

Depth 1.50 meters														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	13.0	10.3	5.6	2.4	1.8	0.6	3.1	--	10.7	5.7	--	1.6	2.1	2.0
2	12.9	10.2	5.5	2.4	1.7	.5	3.4	--	10.6	5.6	--	1.4	2.1	2.0
3	12.7	10.2	5.4	2.2	1.7	.6	3.7	--	10.5	--	3.3	1.5	2.1	2.3
4	12.5	10.0	5.2	2.2	1.5	1.0	3.9	--	10.3	--	3.3	1.6	2.1	2.7
5	12.4	--	5.1	2.1	1.6	1.1	4.0	13.3	10.2	--	3.2	1.6	1.9	2.7
6	12.3	--	5.0	2.1	1.6	1.2	4.2	13.1	10.0	--	3.1	1.5	2.1	2.7
7	12.2	--	4.8	2.0	1.5	1.2	4.2	13.0	9.8	--	--	1.5	2.1	2.8
8	11.9	--	4.7	1.8	1.6	1.3	4.3	12.9	9.6	--	3.1	1.6	2.2	3.0
9	11.8	--	4.6	1.8	1.6	1.4	4.5	12.7	9.5	--	3.1	1.9	2.3	3.2
10	11.7	--	4.4	2.1	1.6	1.5	4.6	12.7	--	--	3.0	2.2	2.1	3.4
11	11.6	--	4.4	2.0	1.6	1.6	4.9	12.5	9.1	--	3.0	2.1	2.0	3.7
12	11.4	--	4.2	2.0	1.5	1.6	4.9	12.4	--	--	3.0	2.1	2.1	3.9
13	11.2	--	4.2	1.9	1.4	1.7	5.1	12.2	8.7	--	2.8	2.1	2.2	4.1
14	11.1	8.7	4.1	1.9	1.3	1.8	5.3	12.0	8.6	--	2.7	2.2	2.3	5.0
15	11.0	8.5	4.1	1.9	1.3	1.9	5.3	11.8	8.4	--	2.3	2.1	2.1	5.4
16	10.9	8.3	4.0	1.9	1.2	1.8	5.1	11.6	8.2	--	2.2	2.1	2.2	5.1
17	10.9	8.2	3.8	2.0	1.1	2.0	5.3	11.4	7.4	--	2.3	2.1	2.2	4.7
18	10.7	7.3	3.8	1.9	1.0	2.1	5.2	11.3	7.2	--	2.3	2.1	2.2	--
19	10.7	7.2	3.6	2.0	.9	2.1	5.1	11.2	--	--	2.0	2.1	2.2	--
20	10.6	7.1	3.5	2.0	.8	2.1	5.1	11.1	--	--	2.1	2.2	2.2	--
21	10.6	7.0	3.4	2.0	.8	2.2	5.1	11.1	6.7	--	2.0	2.1	2.2	--
22	10.5	6.8	3.2	2.0	.7	2.1	5.2	11.1	6.6	--	2.2	2.1	2.1	--
23	10.4	6.6	3.2	2.0	.7	1.8	5.3	11.1	6.4	--	2.0	2.3	2.0	--
24	10.4	6.5	3.0	1.9	.7	2.2	5.4	11.1	6.4	--	2.4	2.2	2.1	--
25	10.5	6.5	3.0	1.9	.6	2.3	5.5	11.2	--	--	2.1	2.1	2.1	--
26	10.5	6.3	2.9	2.0	.6	2.4	5.7	11.1	--	--	1.8	2.2	2.1	--
27	10.5	6.1	2.8	2.0	.6	2.3	5.9	11.1	6.0	3.7	1.6	2.2	2.1	--
28	10.5	6.0	2.7	2.0	.6	2.5	6.0	11.0	6.0	3.6	1.7	2.2	2.1	--
29	10.5	5.9	2.6	1.9	--	2.6	6.1	11.0	5.9	3.6	1.6	--	2.0	--
30	10.4	5.8	2.5	1.9	--	2.7	6.1	10.9	5.8	3.5	1.6	--	2.1	--
31	10.4	--	2.5	1.9	--	2.9	--	10.8	--	--	1.6	--	2.1	--

Table 22.--Daily mean recorded soil temperature data (degrees Celsius), for site 6--Continued

Depth 1.75 meters														
Period: October 1985-April 1986								Period: October 1986-April 1987						
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	13.1	10.5	6.4	3.4	2.6	1.4	3.3	--	11.0	6.5	--	2.2	2.7	2.4
2	13.0	10.5	6.3	3.3	2.6	1.3	3.5	--	10.9	6.4	--	2.0	2.7	2.5
3	12.9	10.4	6.2	3.2	2.5	1.3	3.7	--	10.9	--	4.1	2.1	2.7	2.7
4	12.7	10.3	6.1	3.1	2.3	1.6	3.9	--	10.7	--	4.1	2.1	2.6	3.1
5	12.6	--	5.9	3.1	2.4	1.8	4.0	13.2	10.6	--	4.1	2.1	2.4	3.1
6	12.5	--	5.8	3.0	2.4	1.9	4.1	13.1	10.5	--	3.9	2.1	2.6	3.1
7	12.4	--	5.7	2.9	2.3	1.9	4.2	13.0	10.3	--	--	2.0	2.6	3.2
8	12.1	--	5.6	2.7	2.3	1.9	4.3	13.0	10.1	--	3.9	2.1	2.7	3.3
9	12.1	--	5.5	2.8	2.3	2.0	4.4	12.8	10.0	--	3.9	2.6	2.8	3.4
10	12.0	--	5.3	3.1	2.3	2.1	4.6	12.8	--	--	3.8	2.9	2.6	3.5
11	11.9	--	5.3	3.0	2.3	2.1	4.7	12.7	9.7	--	3.8	2.8	2.5	3.7
12	11.7	--	5.0	3.0	2.3	2.2	4.8	12.5	--	--	3.8	2.8	2.6	3.8
13	11.6	--	5.1	2.9	2.2	2.2	4.9	12.4	9.4	--	3.5	2.8	2.7	4.0
14	11.4	9.3	5.0	2.9	2.2	2.3	5.1	12.3	9.3	--	3.3	2.9	2.8	5.3
15	11.3	9.1	5.0	2.9	2.1	2.4	5.1	12.2	9.2	--	2.9	2.8	2.7	5.7
16	11.3	8.9	4.8	2.8	2.1	2.3	5.0	12.0	9.0	--	2.8	2.7	2.7	5.1
17	11.2	8.8	4.8	2.8	2.0	2.5	5.2	11.8	8.2	--	2.8	2.7	2.7	4.6
18	11.1	7.9	4.7	2.8	1.9	2.5	5.2	11.7	8.0	--	2.8	2.7	2.7	--
19	11.0	7.9	4.5	2.8	1.8	2.6	5.1	11.6	--	--	2.6	2.8	2.7	--
20	10.9	7.7	4.5	2.8	1.7	2.5	5.1	11.5	--	--	2.7	2.8	2.7	--
21	10.9	7.7	4.4	2.8	1.7	2.6	5.1	11.4	7.6	--	2.6	2.7	2.7	--
22	10.8	7.5	4.2	2.8	1.6	2.5	5.2	11.4	7.4	--	2.8	2.7	2.6	--
23	10.7	7.3	4.1	2.8	1.6	2.1	5.3	11.4	7.3	--	2.6	2.9	2.5	--
24	10.7	7.2	4.0	2.7	1.6	2.6	5.3	11.3	7.2	--	3.1	2.8	2.6	--
25	10.7	7.2	3.9	2.7	1.5	2.7	5.4	11.4	--	--	2.8	2.7	2.6	--
26	10.7	7.0	3.8	2.7	1.5	2.8	5.5	11.3	--	--	2.4	2.7	2.5	--
27	10.7	6.9	3.7	2.7	1.5	2.6	5.7	11.3	6.9	4.6	2.2	2.8	2.6	--
28	10.7	6.7	3.6	2.8	1.4	2.9	5.8	11.3	6.8	4.5	2.4	2.8	2.6	--
29	10.6	6.7	3.6	2.7	--	3.0	5.9	11.2	6.8	4.4	2.2	--	2.5	--
30	10.6	6.6	3.5	2.7	--	3.0	5.9	11.1	6.7	4.4	2.3	--	2.5	--
31	10.5	--	3.4	2.7	--	3.1	--	11.1	--	--	2.2	--	2.5	--

Table 22.--Daily mean recorded soil temperature data (degrees Celsius), for site 6--Continued

Depth 2.00 meters														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	13.1	10.7	7.1	4.3	3.4	2.2	3.6	--	11.2	7.3	--	2.6	3.2	2.8
2	13.0	10.7	7.0	4.3	3.4	2.2	3.7	--	11.1	7.1	--	2.5	3.2	2.8
3	12.9	10.6	6.9	4.2	3.3	2.1	3.9	--	11.2	--	4.9	2.5	3.2	3.0
4	12.8	10.5	6.7	4.1	3.1	2.4	4.0	--	11.0	--	4.9	2.5	3.0	3.5
5	12.7	--	6.7	4.0	3.2	2.6	4.1	13.1	11.0	--	4.8	2.5	2.9	3.5
6	12.6	--	6.5	4.0	3.2	2.7	4.2	13.0	10.8	--	4.7	2.4	3.2	3.5
7	12.5	--	6.5	3.8	3.1	2.6	4.3	13.0	10.7	--	--	2.4	3.1	3.5
8	12.3	--	6.4	3.6	3.1	2.7	4.3	13.0	10.5	--	4.7	2.5	3.2	3.6
9	12.2	--	6.3	3.7	3.1	2.7	4.5	12.8	10.4	--	4.7	3.3	3.3	3.6
10	12.1	--	6.1	4.0	3.1	2.7	4.6	12.8	--	--	4.6	3.5	3.1	3.7
11	12.0	--	6.1	4.0	3.1	2.8	4.7	12.7	10.2	--	4.5	3.4	3.0	3.8
12	11.9	--	5.8	3.9	3.1	2.8	4.7	12.6	--	--	4.5	3.5	3.1	3.9
13	11.8	--	5.9	3.9	3.0	2.8	4.8	12.5	9.9	--	4.1	3.5	3.2	4.0
14	11.7	9.7	5.8	3.8	3.0	2.9	5.0	12.4	9.9	--	3.6	3.5	3.3	6.3
15	11.6	9.6	5.8	3.8	3.0	2.9	5.0	12.4	9.8	--	3.3	3.4	3.1	7.1
16	11.5	9.5	5.6	3.7	2.9	2.9	4.9	12.3	9.7	--	3.2	3.4	3.1	5.9
17	11.4	9.4	5.6	3.7	2.9	3.0	5.2	12.1	8.8	--	3.2	3.4	3.2	4.5
18	11.3	8.4	5.5	3.7	2.8	3.1	5.3	12.0	8.7	--	3.2	3.4	3.2	--
19	11.3	8.3	5.4	3.7	2.7	3.1	5.2	11.9	--	--	3.0	3.4	3.1	--
20	11.2	8.3	5.3	3.7	2.6	3.1	5.2	11.8	--	--	3.1	3.4	3.2	--
21	11.2	8.2	5.2	3.6	2.6	3.1	5.2	11.7	8.3	--	3.0	3.3	3.2	--
22	11.1	8.1	5.1	3.6	2.5	2.9	5.2	11.7	8.2	--	3.2	3.3	3.1	--
23	11.0	7.9	5.1	3.6	2.5	2.6	5.3	11.6	8.0	--	3.0	3.5	3.0	--
24	10.9	7.9	4.9	3.5	2.4	3.0	5.4	11.5	8.0	--	3.5	3.4	3.1	--
25	10.9	7.8	4.8	3.5	2.4	3.2	5.4	11.5	--	--	3.2	3.3	3.0	--
26	10.9	7.7	4.7	3.5	2.3	3.3	5.5	11.5	--	--	2.8	3.3	2.9	--
27	10.8	7.5	4.7	3.5	2.4	3.1	5.5	11.5	7.6	5.4	2.7	3.3	3.0	--
28	10.8	7.4	4.5	3.5	2.3	3.3	5.6	11.5	7.5	5.3	2.8	3.3	3.0	--
29	10.8	7.4	4.5	3.5	--	3.4	5.7	11.4	7.5	5.2	2.7	--	2.9	--
30	10.8	7.3	4.4	3.5	--	3.4	5.8	11.3	7.4	5.2	2.7	--	2.9	--
31	10.7	--	4.4	3.5	--	3.5	--	11.3	--	--	2.6	--	2.9	--

Table 22.--Daily mean recorded soil temperature data (degrees Celsius), for site 6--Continued

Depth 2.50 meters														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	12.9	10.9	8.0	5.6	4.6	3.5	4.2	--	--	--	--	--	--	--
2	12.8	10.9	8.0	5.6	4.6	3.5	4.3	--	--	--	--	--	--	--
3	12.7	10.9	7.8	5.5	4.6	3.4	4.4	--	--	--	--	--	--	--
4	12.6	10.8	7.7	5.4	4.4	3.6	4.4	--	--	--	--	--	--	--
5	12.5	--	7.6	5.4	4.5	3.8	4.5	--	--	--	--	--	--	--
6	12.5	--	7.6	5.3	4.4	3.9	4.5	--	--	--	--	--	--	--
7	12.4	--	7.5	5.2	4.4	3.8	4.6	--	--	--	--	--	--	--
8	12.3	--	7.4	5.0	4.3	3.8	4.6	--	--	--	--	--	--	--
9	12.2	--	7.3	5.2	4.3	3.9	4.7	--	--	--	--	--	--	--
10	12.2	--	7.2	5.4	4.3	3.8	4.8	--	--	--	--	--	--	--
11	12.1	--	7.1	5.4	4.2	3.8	4.9	--	--	--	--	--	--	--
12	12.0	--	7.0	5.3	4.2	3.8	4.9	--	--	--	--	--	--	--
13	12.0	--	7.0	5.2	4.2	3.8	4.9	--	--	--	--	--	--	--
14	11.9	10.2	6.9	5.2	4.1	3.9	5.0	--	--	--	--	--	--	--
15	11.8	10.2	6.9	5.1	4.2	3.9	5.1	--	--	--	--	--	--	--
16	11.7	10.1	6.8	5.1	4.1	3.8	5.0	--	--	--	--	--	--	--
17	11.7	10.0	6.7	5.0	4.1	3.9	5.2	--	--	--	--	--	--	--
18	11.6	9.0	6.7	5.0	4.0	4.0	5.3	--	--	--	--	--	--	--
19	11.5	9.0	6.6	5.0	4.0	4.0	5.3	--	--	--	--	--	--	--
20	11.5	9.0	6.5	5.0	3.9	3.9	5.3	--	--	--	--	--	--	--
21	11.4	9.0	6.4	4.9	3.9	3.9	5.4	--	--	--	--	--	--	--
22	11.4	8.8	6.4	4.9	3.8	3.7	5.4	--	--	--	--	--	--	--
23	11.2	8.7	6.3	4.9	3.8	3.4	5.4	--	--	--	--	--	--	--
24	11.2	8.7	6.2	4.7	3.8	3.9	5.5	--	--	--	--	--	--	--
25	11.2	8.6	6.1	4.7	3.7	4.0	5.5	--	--	--	--	--	--	--
26	11.1	8.5	6.1	4.7	3.6	4.1	5.5	--	--	--	--	--	--	--
27	11.1	8.4	6.0	4.7	3.6	3.9	5.5	--	--	--	--	--	--	--
28	11.0	8.3	5.8	4.7	3.6	4.1	5.6	--	--	--	--	--	--	--
29	11.0	8.3	5.8	4.7	--	4.2	5.6	--	--	--	--	--	--	--
30	10.9	8.2	5.7	4.7	--	4.2	5.7	--	--	--	--	--	--	--
31	10.9	--	5.7	4.7	--	4.3	--	--	--	--	--	--	--	--

Table 23.--Daily mean recorded soil temperature data (degrees Celsius), for site 8

[--, indicates no data]

Depth 0.05 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	9.7	3.7	-2.9	-6.6	-5.2	-1.8	6.2	--	1.1	-1.5	--	-3.0	-1.0	-0.8
2	7.0	2.6	-6.1	-6.2	-4.2	-1.1	6.3	--	1.8	-1.2	--	-2.4	-1.6	-.6
3	7.4	4.4	-4.2	-5.7	-3.6	-.7	4.9	--	3.6	--	-3.5	-3.4	-1.1	.4
4	8.3	3.0	-3.7	-5.7	-3.3	-.3	3.8	--	1.3	--	-2.3	-4.7	-.8	2.0
5	5.7	--	-3.4	-5.8	-3.1	-.3	4.9	9.9	4.8	--	-1.6	-3.0	-.7	2.8
6	7.1	--	-3.8	-7.0	-3.3	-.9	8.0	9.7	4.7	--	-2.0	-3.0	.4	4.5
7	5.8	--	-3.7	-8.0	-3.6	-3.4	7.8	13.7	3.0	--	--	-2.4	.6	6.5
8	3.5	--	-3.1	-7.3	-5.5	-2.8	6.3	8.8	1.2	--	-3.9	-3.1	-.9	8.0
9	2.3	--	-2.9	-3.8	-7.4	-.5	6.8	7.6	.1	--	-4.7	-1.1	-1.5	7.4
10	3.1	--	-4.1	-4.7	-8.7	-.2	8.6	8.7	--	--	-4.7	-1.3	-1.5	5.1
11	5.8	--	-5.1	-3.0	-9.6	-.4	9.6	6.0	-1.1	--	-3.1	-1.7	-1.1	6.2
12	8.5	--	-7.2	-2.0	-9.9	-.1	4.5	3.9	--	--	-.7	-.6	-1.5	6.5
13	8.1	--	-8.1	-4.5	-9.2	-.1	1.7	3.2	-3.2	--	-1.8	-1.2	-.8	6.6
14	5.8	-1.2	-7.5	-5.0	-8.9	0	1.8	4.3	-2.0	--	-2.5	-2.8	-.4	7.1
15	4.6	-1.8	-6.6	-5.3	-8.5	-.1	1.4	6.6	-1.7	--	-7.3	-2.6	-.6	8.5
16	4.9	-.7	-6.7	-4.3	-7.7	-.2	2.7	8.4	-.8	--	-9.1	-2.1	-.6	10.0
17	7.5	-1.9	-7.2	-3.4	-6.5	0	5.3	8.4	-3.1	--	-8.2	-1.7	-.5	12.2
18	9.6	-5.0	-7.7	-3.0	-6.0	.1	6.7	9.7	-1.9	--	-8.3	-2.5	-.5	--
19	6.9	-4.9	-7.8	-2.9	-6.3	-1.7	6.7	10.7	--	--	-7.1	-1.5	-.5	--
20	7.7	-5.2	-8.1	-2.4	-6.5	-2.7	5.3	9.4	--	--	-6.7	-1.2	.2	--
21	9.4	-5.2	-6.7	-3.1	-6.5	-1.2	5.1	9.7	-1.8	--	-5.6	-1.1	.4	--
22	12.4	-3.1	-3.6	-4.7	-6.2	.1	7.5	11.3	-1.1	--	-7.3	-1.5	.3	--
23	10.7	-3.1	-3.8	-6.0	-6.1	-.4	12.7	8.4	-2.7	--	-9.5	-1.4	.1	--
24	8.4	-3.6	-9.5	-4.6	-5.8	.7	11.4	7.3	-1.0	--	-9.0	-1.0	-.5	--
25	8.7	-3.0	-10.9	-4.0	-5.3	2.3	7.1	8.2	--	--	-9.1	-.5	-.4	--
26	8.0	-2.7	-5.5	-5.9	-3.6	1.0	5.8	6.9	--	--	-6.8	-.5	-.2	--
27	5.0	-3.0	-7.0	-7.9	-.7	2.9	4.6	8.0	-.8	-3.1	-6.0	-.6	-.7	--
28	9.1	-3.1	-8.0	-6.7	-.9	7.0	7.0	8.6	-.6	-3.7	-4.4	-.5	-1.3	--
29	8.5	-3.0	-8.4	-7.1	--	8.6	9.8	5.2	-.8	-3.1	-3.3	--	-1.9	--
30	2.1	-2.7	-6.8	-6.7	--	7.0	10.0	7.0	-1.3	-3.6	-3.3	--	-1.4	--
31	3.7	--	-7.2	-5.9	--	7.5	--	5.9	--	--	-3.5	--	-.1	--

Table 23.--Daily mean recorded soil temperature data (degrees Celsius), for site 8--Continued

Depth 0.10 meter														
Period: October 1985-April 1986								Period: October 1986-April 1987						
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	9.2	4.2	-2.2	-6.2	-5.1	-1.8	5.9	--	2.7	-1.0	--	-3.1	-0.7	-0.8
2	7.3	2.9	-4.3	-5.9	-4.2	-1.3	6.1	--	2.6	-.9	--	-2.4	-.9	-.6
3	7.8	4.6	-3.6	-5.3	-3.6	-.8	5.1	--	4.4	--	-3.2	-3.2	-.8	-.2
4	8.5	3.3	-3.2	-5.3	-3.3	-.4	3.9	--	2.2	--	-2.3	-4.3	-.9	.9
5	6.4	--	-2.9	-5.4	-3.0	-.3	4.8	13.9	4.8	--	-1.7	-3.1	-.9	1.9
6	7.1	--	-3.2	-6.2	-3.2	-.5	7.2	11.5	5.1	--	-1.8	-3.0	-.4	3.8
7	6.4	--	-3.2	-7.4	-3.3	-2.6	7.5	16.4	3.7	--	--	-2.5	-.3	5.7
8	4.4	--	-2.7	-7.0	-4.7	-2.6	6.4	9.8	2.3	--	-3.4	-2.8	-.6	7.1
9	3.0	--	-2.5	-4.3	-6.5	-.6	6.6	8.3	1.0	--	-4.1	-1.2	-.7	7.1
10	3.4	--	-3.2	-4.4	-7.7	-.2	8.1	9.0	--	--	-4.2	-1.2	-1.0	5.4
11	5.6	--	-4.0	-3.3	-8.6	-.3	9.3	7.1	0	--	-3.2	-1.7	-.9	6.0
12	8.3	--	-5.6	-1.8	-9.1	-.2	5.6	5.2	--	--	-1.1	-.7	-1.1	6.2
13	8.2	--	-6.5	-3.9	-8.7	-.1	2.8	4.2	-1.7	--	-1.9	-1.0	-.8	6.6
14	6.2	-.7	-6.4	-4.3	-8.3	0	2.3	4.8	-1.2	--	-2.3	-2.3	-.5	6.7
15	5.2	-1.1	-5.7	-4.7	-8.1	-.1	1.8	6.6	-1.0	--	-5.9	-2.3	-.6	7.9
16	5.1	-.4	-5.6	-4.1	-7.4	-.2	2.5	8.2	-.6	--	-7.9	-2.0	-.6	9.3
17	7.3	-1.2	-7.0	-3.4	-6.4	0	4.9	8.3	-2.1	--	-7.4	-1.7	-.5	11.1
18	9.2	-3.7	-7.0	-2.9	-5.9	.1	6.4	9.4	-1.5	--	-7.7	-2.1	-.6	--
19	6.9	-4.2	-6.9	-2.8	-6.0	-.9	6.6	10.3	--	--	-6.4	-1.5	-.6	--
20	7.6	-4.0	-7.0	-2.4	-6.1	-2.1	5.6	9.6	--	--	-6.2	-1.2	-.4	--
21	9.0	-3.9	-6.3	-2.7	-6.2	-1.2	5.2	9.6	-1.5	--	-5.2	-1.1	-.3	--
22	11.6	-2.5	-3.9	-4.0	-6.0	-.3	6.9	11.0	-.9	--	-6.4	-1.3	-.3	--
23	10.8	-2.3	-3.1	-5.3	-5.8	-.7	11.4	9.2	-1.9	--	-8.3	-1.2	-.3	--
24	8.9	-2.6	-7.3	-4.4	-5.7	0	11.1	7.9	-1.1	--	-7.8	-1.1	-.5	--
25	8.6	-2.4	-9.0	-3.8	-5.3	.9	7.8	8.5	--	--	-8.2	-.7	-.5	--
26	8.4	-2.2	-5.8	-5.0	-4.0	.7	6.2	7.4	--	--	-6.5	-.5	-.5	--
27	5.7	-2.3	-6.1	-7.1	-.8	1.9	5.1	8.1	-.8	-2.9	-5.8	-.5	-.6	--
28	8.3	-2.4	-7.2	-6.3	-.9	5.5	6.5	8.8	-.7	-3.4	-4.5	-.5	-.7	--
29	9.1	-2.3	-7.5	-6.5	--	7.3	9.2	6.1	-.7	-2.8	-3.3	--	-1.0	--
30	3.6	-2.2	-6.5	-6.4	--	6.4	9.8	7.0	-.8	-3.2	-3.2	--	-1.1	--
31	4.0	--	-6.6	-5.7	--	7.1	--	6.9	--	--	-3.4	--	-.5	--

Table 23.--Daily mean recorded soil temperature data (degrees Celsius), for site 8--Continued

Depth 0.15 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	8.7	4.7	-1.6	-5.8	-4.9	-1.8	5.7	--	4.1	-0.6	--	-3.0	-0.6	-0.8
2	7.7	3.4	-2.9	-5.5	-4.2	-1.5	6.0	--	3.4	-.5	--	-2.4	-.6	-.6
3	8.2	4.9	-2.8	-5.0	-3.6	-1.0	5.2	--	4.9	--	-2.9	-2.9	-.6	-.4
4	8.7	3.6	-2.7	-5.0	-3.3	-.5	4.1	--	3.0	--	-2.3	-3.9	-.8	.2
5	7.1	--	-2.5	-5.0	-2.9	-.3	4.7	10.8	4.9	--	-1.6	-3.1	-1.0	1.1
6	7.3	--	-2.7	-5.6	-3.0	-.4	6.5	10.0	5.4	--	-1.6	-2.9	-.6	3.2
7	7.1	--	-2.7	-6.8	-3.1	-2.0	7.3	12.5	4.3	--	--	-2.5	-.6	5.1
8	5.3	--	-2.4	-6.6	-4.2	-2.4	6.4	10.4	3.1	--	-2.9	-2.6	-.6	6.4
9	3.8	--	-2.2	-4.6	-5.7	-.7	6.4	8.9	1.8	--	-3.5	-1.3	-.6	6.7
10	3.8	--	-2.6	-4.2	-6.9	-.3	7.7	9.3	--	--	-3.6	-1.2	-.7	5.5
11	5.6	--	-3.2	-3.4	-7.9	-.3	8.9	7.9	.8	--	-3.1	-1.7	-.8	5.7
12	8.1	--	-4.5	-1.8	-8.4	-.2	6.3	6.2	--	--	-1.4	-.8	-.8	6.0
13	8.3	--	-5.4	-3.4	-8.2	-.2	3.7	5.0	-.6	--	-1.9	-1.0	-.7	6.5
14	6.6	-.3	-5.6	-3.8	-7.9	0	2.8	5.3	-.5	--	-2.3	-1.8	-.5	6.4
15	5.8	-.5	-5.1	-4.3	-7.8	-.1	2.1	6.7	-.4	--	-4.8	-2.1	-.6	7.3
16	5.3	-.2	-5.0	-4.0	-7.2	-.2	2.4	8.1	-.2	--	-6.9	-1.9	-.6	8.7
17	7.3	-.6	-6.1	-3.3	-6.3	0	4.5	8.3	-1.2	--	-6.6	-1.6	-.5	10.2
18	8.9	-1.6	-6.2	-2.8	-5.7	0	6.1	9.2	-1.0	--	-7.0	-1.9	-.6	--
19	7.0	-2.1	-6.3	-2.7	-5.8	-.5	6.4	10.1	--	--	-5.7	-1.5	-.6	--
20	7.6	-2.5	-6.3	-2.4	-5.9	-1.7	5.8	9.7	--	--	-5.7	-1.2	-.5	--
21	8.8	-2.5	-5.9	-2.4	-5.9	-1.1	5.2	9.5	-1.1	--	-4.8	-1.0	-.5	--
22	11.1	-1.8	-4.0	-3.5	-5.8	-.4	6.5	10.7	-.8	--	-5.6	-1.1	-.5	--
23	10.8	-1.6	-2.8	-4.7	-5.6	-.8	10.3	9.7	-1.2	--	-7.3	-1.1	-.6	--
24	9.2	-1.7	-5.9	-4.2	-5.6	-.1	10.7	8.4	-.9	--	-7.0	-1.0	-.5	--
25	8.6	-1.6	-7.7	-3.7	-5.2	.2	8.2	8.7	--	--	-7.4	-.8	-.6	--
26	8.9	-1.7	-5.8	-4.5	-4.1	.4	6.5	7.8	--	--	-6.2	-.6	-.7	--
27	6.4	-1.4	-5.5	-6.3	-1.3	1.1	5.5	8.2	-.7	-2.6	-5.5	-.5	-.5	--
28	7.9	-1.6	-6.6	-6.0	-1.2	4.2	6.2	9.0	-.6	-3.0	-4.4	-.5	-.5	--
29	9.5	-1.5	-6.8	-6.0	--	6.3	8.7	6.9	-.4	-2.6	-3.3	--	-.7	--
30	4.9	-1.4	-6.2	-6.0	--	6.0	9.6	7.2	-.5	-2.8	-3.1	--	-.7	--
31	4.5	--	-6.1	-5.5	--	6.6	--	7.5	--	--	-3.3	--	-.5	--

Table 23.--Daily mean recorded soil temperature data (degrees Celsius), for site 8--Continued

Depth 0.20 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	8.5	5.1	-1.3	-5.5	-4.8	-1.9	5.5	--	5.0	-0.2	--	-2.9	-0.5	-0.8
2	7.9	3.8	-2.2	-5.2	-4.1	-1.6	5.8	--	4.0	-.2	--	-2.3	-.6	-.6
3	8.4	5.1	-2.4	-4.7	-3.5	-1.2	5.2	--	5.3	--	-2.6	-2.7	-.5	-.3
4	8.8	4.0	-2.4	-4.7	-3.3	-.6	4.2	--	3.6	--	-2.1	-3.5	-.8	.1
5	7.7	--	-2.1	-4.7	-2.8	-.4	4.6	11.0	5.0	--	-1.5	-2.9	-1.0	.7
6	7.4	--	-2.2	-5.1	-2.9	-.3	6.0	10.3	5.6	--	-1.5	-2.7	-.5	2.9
7	7.5	--	-2.3	-6.3	-2.9	-1.5	7.0	12.1	4.8	--	--	-2.4	-.6	4.6
8	6.0	--	-2.1	-6.2	-3.8	-2.2	6.4	10.8	3.7	--	-2.5	-2.4	-.5	5.9
9	4.5	--	-1.9	-4.7	-5.1	-.8	6.2	9.3	2.4	--	-3.0	-1.4	-.5	6.5
10	4.3	--	-2.2	-4.1	-6.3	-.4	7.3	9.5	--	--	-3.2	-1.1	-.6	5.5
11	5.6	--	-2.7	-3.4	-7.2	-.4	8.5	8.5	1.4	--	-2.8	-1.5	-.8	5.5
12	7.9	--	-3.7	-1.9	-7.8	-.3	6.6	6.9	--	--	-1.5	-.8	-.6	5.8
13	8.3	--	-4.5	-3.0	-7.8	-.2	4.3	5.7	.2	--	-1.8	-.9	-.6	6.4
14	6.9	.1	-4.8	-3.4	-7.5	-.1	3.2	5.7	.1	--	-2.1	-1.5	-.5	6.2
15	6.3	-.1	-4.5	-3.9	-7.4	-.1	2.5	6.8	0	--	-3.9	-1.8	-.6	7.0
16	5.6	0	-4.4	-3.7	-7.0	-.2	2.4	8.1	.1	--	-5.9	-1.7	-.6	8.3
17	7.2	-.1	-4.8	-3.2	-6.2	0	4.3	8.3	-.6	--	-5.8	-1.4	-.5	9.5
18	8.4	-.7	-5.6	-2.7	-5.6	0	5.8	9.1	-.6	--	-6.3	-1.6	-.5	--
19	7.1	-1.0	-5.7	-2.5	-5.6	-.2	6.2	10.0	--	--	-5.1	-1.4	-.6	--
20	7.6	-1.4	-5.7	-2.3	-5.6	-1.1	5.9	9.8	--	--	-5.2	-1.1	-.5	--
21	8.6	-1.8	-5.5	-2.2	-5.7	-.9	5.2	9.6	-.7	--	-4.4	-1.0	-.5	--
22	10.6	-1.5	-4.0	-3.1	-5.5	-.5	6.2	10.5	-.5	--	-5.0	-1.0	-.6	--
23	10.7	-1.3	-2.7	-4.2	-5.4	-.9	9.4	10.0	-.7	--	-6.4	-1.0	-.6	--
24	9.4	-1.3	-4.9	-4.0	-5.3	-.2	10.3	8.7	-.6	--	-6.1	-.9	-.5	--
25	8.7	-1.3	-6.7	-3.5	-5.0	0	8.5	8.9	--	--	-6.7	-.8	-.5	--
26	9.0	-1.2	-5.6	-4.0	-4.2	.2	6.7	8.2	--	--	-5.8	-.6	-.7	--
27	6.9	-1.1	-5.0	-5.7	-2.0	.6	5.7	8.3	-.4	-2.3	-5.1	-.4	-.5	--
28	7.7	-1.2	-6.0	-5.6	-1.5	3.1	6.0	9.0	-.3	-2.6	-4.2	-.4	-.5	--
29	9.5	-1.2	-6.2	-5.6	--	5.3	8.2	7.4	-.1	-2.3	-3.3	--	-.6	--
30	5.8	-1.2	-5.8	-5.7	--	5.5	9.3	7.4	-.1	-2.4	-2.9	--	-.6	--
31	5.0	--	-5.7	-5.2	--	6.2	--	7.9	--	--	-3.1	--	-.5	--

Table 23.--Daily mean recorded soil temperature data (degrees Celsius), for site 8--Continued

Depth 0.25 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	8.4	5.4	-1.0	-5.0	-4.6	-2.0	5.3	--	5.8	0.6	--	-0.9	0	0
2	8.2	4.3	-1.6	-4.8	-3.9	-1.9	5.7	--	4.7	.3	--	-.9	0	-.1
3	8.6	5.2	-1.9	-4.4	-3.4	-1.4	5.3	--	5.7	--	-1.7	-.7	0	.1
4	8.9	4.3	-1.8	-4.4	-3.3	-.6	4.4	--	4.3	--	-1.3	-1.3	.1	.3
5	8.1	--	-1.8	-4.4	-2.7	-.5	4.5	11.3	5.2	--	-.8	-1.0	-.1	.9
6	7.6	--	-1.9	-4.6	-2.7	-.3	5.7	10.5	5.9	--	-.7	-.8	0	2.7
7	7.9	--	-1.9	-5.6	-2.8	-1.1	6.8	11.9	5.2	--	--	-.7	0	4.3
8	6.6	--	-1.7	-5.9	-3.4	-1.9	6.4	11.2	4.3	--	-1.5	-.4	.1	5.6
9	5.1	--	-1.7	-4.9	-4.6	-.8	6.1	9.8	3.0	--	-2.0	-.9	.1	6.2
10	4.7	--	-1.9	-3.9	-5.6	-.5	7.1	9.8	--	--	-2.2	-.5	-.1	5.5
11	5.8	--	-2.1	-3.5	-6.5	-.3	8.2	9.0	2.0	--	-2.0	-.9	-.1	5.4
12	7.7	--	-3.2	-2.2	-7.2	-.2	6.9	7.6	--	--	-.8	-.3	-.1	5.7
13	8.3	--	-3.7	-2.7	-7.3	-.2	4.8	6.4	.8	--	-.7	-.3	0	6.3
14	7.3	.4	-4.3	-3.1	-7.1	-.1	3.6	6.2	.7	--	-.1	-.7	.1	--
15	6.7	.3	-3.9	-3.6	-7.0	-.1	2.8	7.0	.6	--	-1.4	-1.0	-.1	--
16	5.9	.3	-3.8	-3.5	-6.6	-.1	2.6	8.1	.6	--	-3.2	-1.0	0	--
17	7.2	.2	-4.3	-3.0	-6.0	0	4.1	8.5	.5	--	-3.3	-.8	0	--
18	8.0	-.2	-4.9	-2.6	-5.4	0	5.6	9.2	.4	--	-3.7	-.9	0	--
19	7.2	-.6	-5.1	-2.4	-5.3	-.1	6.0	9.9	--	--	-3.1	-.7	-.1	--
20	7.6	-.9	-5.1	-2.2	-5.4	-.7	5.9	9.9	--	--	-3.0	-.5	0	--
21	8.5	-1.2	-5.1	-2.1	-5.4	-.7	5.3	9.7	.2	--	-2.4	-.4	.1	--
22	10.2	-1.1	-4.1	-2.7	-5.5	-.4	6.0	10.5	.3	--	-2.6	-.4	-.2	--
23	10.6	-1.0	-2.7	-3.6	-5.1	-.6	8.7	10.3	.2	--	-3.9	-.3	-.1	--
24	9.6	-.9	-4.2	-3.9	-5.1	-.1	10.0	9.1	.2	--	-3.6	-.4	0	--
25	8.8	-.9	-5.8	-3.5	-4.9	0	8.7	9.1	--	--	-4.2	-.2	-.1	--
26	9.1	-.9	-5.5	-3.7	-4.3	.1	6.9	8.5	--	--	-3.6	0	.1	--
27	7.4	-.8	-4.7	-5.1	-2.4	.3	6.0	8.5	.4	-1.5	-3.1	.1	.1	--
28	7.6	-.9	-5.5	-5.2	-1.8	2.2	5.9	9.2	.5	-1.7	-2.2	.1	0	--
29	9.4	-.9	-5.6	-5.2	--	4.5	8.0	7.9	.7	-1.5	-1.4	--	-.1	--
30	6.5	-.9	-5.6	-5.2	--	5.1	9.1	7.7	.7	-1.5	-1.0	--	0	--
31	5.4	--	-5.2	-4.9	--	5.8	--	8.3	--	--	-1.1	--	0	--

Table 23.--Daily mean recorded soil temperature data (degrees Celsius), for site 8--Continued

Depth 0.30 meter														
Period: October 1985-April 1986								Period: October 1986-April 1987						
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	8.5	5.8	-0.7	-4.7	-4.4	-2.1	5.0	--	6.5	0.8	--	-1.1	0	0
2	8.5	4.9	-.9	-4.5	-3.8	-2.0	5.5	--	5.3	.6	--	-1.2	0	0
3	8.8	5.4	-1.3	-4.2	-3.3	-1.7	5.2	--	6.0	--	-1.5	-.9	0	.2
4	9.1	4.8	-1.4	-4.1	-3.2	-.8	4.5	--	4.8	--	-1.2	-1.3	0	.4
5	8.5	--	-1.4	-4.1	-2.6	-.6	4.5	11.5	5.4	--	-.7	-1.3	-.2	.9
6	8.0	--	-1.5	-4.3	-2.6	-.4	5.3	10.8	6.0	--	-.7	-1.0	-.1	2.4
7	8.2	--	-1.5	-5.2	-2.6	-.8	6.5	11.7	5.6	--	--	-1.0	-.1	3.9
8	7.2	--	-1.5	-5.5	-3.0	-1.5	6.2	11.5	4.8	--	-1.2	-.7	0	5.2
9	5.8	--	-1.4	-4.8	-4.0	-.9	6.0	10.2	3.6	--	-1.6	-.9	.1	5.9
10	5.3	--	-1.6	-3.8	-5.0	-.5	6.8	10.0	--	--	-1.8	-.5	-.2	5.4
11	6.0	--	-1.7	-3.5	-5.8	-.4	7.8	9.5	2.5	--	-1.8	-.8	-.2	5.3
12	7.6	--	-2.5	-2.4	-6.5	-.3	7.0	8.2	--	--	-.8	-.4	-.2	5.6
13	8.3	--	-2.9	-2.5	-6.8	-.2	5.2	7.0	1.4	--	-.8	-.3	0	6.2
14	7.6	.8	-3.5	-2.8	-6.6	-.1	3.9	6.6	1.2	--	-.4	-.5	0	--
15	7.1	.8	-3.4	-3.2	-6.6	-.1	3.1	7.2	1.1	--	-1.3	-.9	-.1	--
16	6.3	.7	-3.4	-3.3	-6.3	-.2	2.7	8.2	1.0	--	-2.7	-.9	-.1	--
17	7.2	.7	-3.9	-2.9	-5.8	0	4.0	8.5	.9	--	-3.0	-.7	0	--
18	7.6	-.5	-4.1	-2.5	-5.3	0	5.3	9.1	.8	--	-3.4	-.8	0	--
19	7.4	-.5	-4.5	-2.3	-5.1	0	5.7	9.8	--	--	-3.0	-.7	-.1	--
20	7.7	-.6	-4.5	-2.1	-5.1	-.4	5.9	10.0	--	--	-2.8	-.5	0	--
21	8.4	-.5	-4.6	-2.0	-5.2	-.5	5.3	9.7	.5	--	-2.5	-.5	0	--
22	9.8	-.6	-3.9	-2.4	-5.2	-.4	5.8	10.4	.6	--	-2.4	-.4	-.2	--
23	10.4	-.6	-2.7	-3.1	-4.9	-.6	8.0	10.4	.5	--	-3.5	-.2	-.1	--
24	9.7	-.5	-3.5	-3.6	-5.0	-.1	9.5	9.3	.5	--	-3.3	-.3	0	--
25	8.9	-.5	-5.0	-3.3	-4.8	0	8.7	9.2	--	--	-3.9	-.3	-.1	--
26	9.2	.5	-5.1	-3.3	-4.3	0	7.0	8.8	--	--	-3.6	-.1	0	--
27	7.9	-.5	-4.3	-4.4	-2.8	0	6.2	8.7	.7	-1.3	-3.1	.1	.1	--
28	7.7	-.6	-5.0	-4.7	-2.1	1.1	5.8	9.3	.8	-1.4	-2.4	.1	0	--
29	9.3	-.5	-5.1	-4.8	--	3.5	7.6	8.3	.9	-1.2	-1.7	--	-.1	--
30	7.2	-.6	-5.2	-4.8	--	4.6	8.7	7.9	.9	-1.3	-1.2	--	0	--
31	5.9	--	-4.8	-4.6	--	5.3	--	8.5	--	--	-1.3	--	0	--

Table 23.--Daily mean recorded soil temperature data (degrees Celsius), for site 8--Continued

Depth 0.40 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	9.1	6.4	-0.2	-4.1	-3.9	-2.2	4.6	--	7.5	1.3	--	-1.2	-0.1	0.2
2	9.2	5.7	-.2	-4.0	-3.6	-2.1	5.1	--	6.3	1.1	--	-1.4	-.1	.2
3	9.3	5.8	-.4	-3.8	-3.1	-1.8	5.1	--	6.5	--	-0.9	-1.0	-.1	.4
4	9.4	5.4	-.6	-3.7	-3.0	-1.0	4.5	--	5.8	--	-.8	-1.2	-.2	.6
5	9.2	--	-.8	-3.6	-2.5	-.7	4.3	11.8	5.9	--	-.5	-1.3	-.3	1.1
6	8.7	--	-.9	-3.7	-2.4	-.5	4.8	11.2	6.4	--	-.5	-1.1	-.1	2.1
7	8.8	--	-.9	-4.4	-2.4	-.6	5.9	11.6	6.2	--	--	-1.1	-.1	3.3
8	8.1	--	-1.0	-4.8	-2.5	-1.0	6.0	11.7	5.6	--	-.6	-.8	0	4.5
9	7.1	--	-1.0	-4.4	-3.2	-.8	5.8	10.8	4.6	--	-.9	-.8	0	5.3
10	6.5	--	-1.0	-3.5	-4.0	-.6	6.3	10.5	--	--	-1.1	-.5	-.1	5.2
11	6.6	--	-1.0	-3.2	-4.8	-.4	7.2	10.1	3.4	--	-1.2	-.6	-.2	5.0
12	7.6	--	-1.5	-2.5	-5.5	-.3	7.0	9.1	--	--	-.6	-.4	-.2	5.3
13	8.3	--	-1.7	-2.2	-5.9	-.2	5.8	8.0	2.4	--	-.7	-.3	0	5.8
14	8.1	1.5	-2.4	-2.4	-5.9	-.1	4.5	7.5	2.2	--	-.5	-.3	.1	5.6
15	7.8	1.5	-2.4	-2.7	-5.9	-.1	3.7	7.7	1.9	--	-.9	-.6	0	6.1
16	7.1	1.3	-2.6	-2.8	-5.8	-.2	3.1	8.3	1.9	--	-1.8	-.7	0	6.9
17	7.4	1.3	-2.9	-2.6	-5.4	0	3.9	8.7	1.6	--	-2.2	-.6	.1	7.7
18	7.6	.3	-3.1	-2.3	-5.0	0	4.9	9.2	1.5	--	-2.5	-.6	.1	--
19	7.7	-.3	-3.6	-2.1	-4.7	0	5.4	9.7	--	--	-2.5	-.5	0	--
20	7.9	-.3	-3.6	-1.9	-4.7	-.1	5.7	10.0	--	--	-2.4	-.4	.1	--
21	8.3	.3	-3.8	-1.8	-4.7	-.2	5.3	9.8	1.2	--	-2.2	-.4	.2	--
22	9.3	.1	-3.5	-1.9	-4.8	-.3	5.6	10.3	1.2	--	-2.0	-.3	0	--
23	10.0	.1	-2.6	-2.5	-4.5	-.6	7.0	10.5	1.2	--	-2.7	-.1	.1	--
24	9.8	.1	-2.7	-3.0	-4.6	-.1	8.6	9.8	1.1	--	-2.6	-.2	.1	--
25	9.2	.1	-3.8	-2.9	-4.4	0	8.5	9.5	--	--	-3.2	-.2	.1	--
26	9.4	.1	-4.3	-2.8	-4.1	0	7.2	9.2	--	--	-3.2	-.1	.2	--
27	8.6	.1	-3.7	-3.5	-3.1	-.1	6.5	9.0	1.2	-.8	-2.8	0	.3	--
28	8.1	0	-4.1	-4.0	-2.4	.1	5.9	9.4	1.3	-.8	-2.2	0	.2	--
29	9.1	0	-4.2	-4.1	--	2.2	7.0	8.9	1.4	-.8	-1.8	--	.2	--
30	8.2	0	-4.5	-4.2	--	3.8	8.1	8.4	1.4	-.8	-1.4	--	.2	--
31	6.9	--	-4.2	-4.1	--	4.6	--	8.7	--	--	-1.3	--	.2	--

Table 23.--Daily mean recorded soil temperature data (degrees Celsius), for site 8--Continued

Depth 0.50 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	9.7	7.0	0.2	-3.6	-3.5	-2.2	4.3	--	8.2	1.8	--	-1.3	-0.1	0.3
2	9.7	6.5	.3	-3.4	-3.2	-2.1	4.7	--	7.1	1.6	--	-1.5	-.1	.3
3	9.7	6.2	.1	-3.3	-2.9	-1.9	4.8	--	7.0	--	-0.5	-1.1	-.1	.6
4	9.7	6.0	0	-3.2	-2.9	-1.1	4.5	--	6.5	--	-.4	-1.2	-.2	.8
5	9.7	--	-.4	-3.2	-2.3	-.8	4.3	12.0	6.4	--	-.3	-1.3	-.4	1.1
6	9.2	--	-.5	-3.2	-2.2	-.5	4.5	11.6	6.7	--	-.4	-1.2	-.1	1.9
7	9.3	--	-.5	-3.7	-2.1	-.5	5.4	11.7	6.6	--	--	-1.2	-.1	2.9
8	8.8	--	-.5	-4.2	-2.2	-.7	5.7	11.9	6.2	--	-.2	-.9	0	3.9
9	8.1	--	-.6	-4.0	-2.7	-.7	5.6	11.2	5.4	--	-.3	-.7	.1	4.7
10	7.4	--	-.7	-3.1	-3.3	-.5	6.0	10.8	--	--	-.5	-.4	0	4.9
11	7.3	--	-.6	-2.9	-4.0	-.3	6.7	10.6	4.3	--	-.6	-.5	-.1	4.8
12	7.8	--	-.9	-2.4	-4.6	-.3	6.8	9.8	--	--	-.4	-.3	0	5.0
13	8.4	--	-.9	-2.0	-5.1	-.2	6.0	8.8	3.3	--	-.5	-.3	.2	5.4
14	8.5	2.1	-1.4	-2.0	-5.2	-.1	4.9	8.2	3.0	--	-.6	-.2	.2	--
15	8.3	2.0	-1.6	-2.3	-5.2	-.1	4.1	8.2	2.8	--	-.8	-.4	.1	--
16	7.8	1.9	-1.9	-2.4	-5.2	-.1	3.4	8.6	2.6	--	-1.2	-.5	.2	--
17	7.7	1.8	-2.0	-2.3	-5.0	0	3.9	8.9	2.2	--	-1.5	-.4	.3	7.2
18	7.9	.9	-2.3	-2.1	-4.6	0	4.6	9.2	2.1	--	-1.8	-.4	.2	--
19	8.0	1.0	-2.7	-1.9	-4.4	0	5.1	9.7	--	--	-2.1	-.4	.2	--
20	8.1	.9	-2.8	-1.7	-4.3	0	5.5	10.0	--	--	-2.0	-.3	.2	--
21	8.4	.9	-3.1	-1.6	-4.3	0	5.3	10.0	1.8	--	-1.9	-.3	.3	--
22	9.0	.7	-3.0	-1.6	-4.4	-.2	5.4	10.2	1.8	--	-1.7	-.2	.1	--
23	9.7	.6	-2.4	-1.9	-4.2	-.5	6.4	10.5	1.7	--	-2.2	0	.2	--
24	9.8	.6	-2.2	-2.5	-4.2	-.1	7.8	10.0	1.7	--	-2.0	-.1	.3	--
25	9.5	.6	-2.9	-2.5	-4.1	0	8.1	9.8	--	--	-2.5	-.2	.3	--
26	9.5	.6	-3.5	-2.4	-3.9	.1	7.2	9.5	--	--	-2.8	-.1	.3	--
27	9.1	.5	-3.2	-2.8	-3.2	0	6.6	9.3	1.7	-.3	-2.6	-.1	.4	--
28	8.5	.5	-3.5	-3.3	-2.5	.2	6.0	9.5	1.7	-.4	-2.1	0	.4	--
29	9.0	.5	-3.5	-3.5	--	1.6	6.7	9.3	1.8	-.4	-1.9	--	.3	--
30	8.7	.4	-3.8	-3.6	--	3.1	7.6	8.8	1.8	-.3	-1.5	--	.4	--
31	7.6	--	-3.6	-3.6	--	4.0	--	9.0	--	--	-1.4	--	.4	--

Table 23.--Daily mean recorded soil temperature data (degrees Celsius), for site 8--Continued

Depth 0.60 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	10.2	7.6	0.7	-3.0	-3.1	-2.2	4.0	--	8.7	2.2	--	-1.2	0	0.5
2	10.1	7.1	.7	-2.9	-2.9	-2.1	4.4	--	7.8	2.0	--	-1.5	0	.5
3	10.1	6.7	.6	-2.9	-2.6	-1.9	4.6	--	7.6	--	0	-1.1	.1	.7
4	10.0	6.5	0	-2.8	-2.6	-1.1	4.4	--	7.1	--	-.1	-1.1	-.1	1.0
5	10.0	--	0	-2.7	-2.1	-.8	4.2	12.3	6.9	--	0	-1.2	-.2	1.3
6	9.7	--	0	-2.7	-1.9	-.5	4.3	11.9	7.0	--	-.1	-1.1	.1	1.8
7	9.6	--	0	-3.1	-1.9	-.5	5.0	11.8	7.0	--	--	-1.2	.1	2.6
8	9.2	--	-.1	-3.5	-1.9	-.5	5.4	12.1	6.7	--	.1	-.9	.2	3.5
9	8.8	--	-.1	-3.5	-2.2	-.5	5.4	11.6	6.1	--	.1	-.5	.3	4.3
10	8.2	--	-.2	-2.8	-2.7	-.4	5.7	11.2	--	--	0	-.3	.2	4.5
11	7.9	--	-.2	-2.6	-3.3	-.2	6.3	10.9	5.0	--	-.1	-.4	0	4.6
12	8.1	--	-.5	-2.2	-3.8	-.2	6.6	10.3	--	--	0	-.2	.2	4.8
13	8.6	--	-.4	-1.8	-4.3	-.1	6.0	9.5	4.1	--	-.3	-.2	.4	5.1
14	8.7	2.8	-.8	-1.7	-4.5	0	5.2	8.9	3.8	--	-.5	-.1	.4	--
15	8.6	2.7	-1.0	-1.9	-4.6	0	4.4	8.7	3.5	--	-.7	-.2	.3	--
16	8.2	2.5	-1.2	-2.0	-4.6	0	3.7	8.9	3.3	--	-.8	-.3	.4	--
17	8.1	2.4	-1.1	-2.0	-4.5	.1	3.9	9.1	2.7	--	-.9	-.2	.5	6.8
18	8.3	1.6	-1.6	-1.8	-4.2	.2	4.5	9.4	2.7	--	-1.2	-.2	.4	--
19	8.3	1.6	-2.0	-1.6	-4.0	.2	5.0	9.7	--	--	-1.6	-.2	.4	--
20	8.3	1.6	-2.1	-1.5	-4.0	.1	5.3	10.1	--	--	-1.5	-.1	.4	--
21	8.5	1.5	-2.4	-1.4	-3.9	.1	5.3	10.1	2.4	--	-1.5	-.2	.5	--
22	8.9	1.2	-2.4	-1.3	-4.0	0	5.3	10.3	2.3	--	-1.3	-.2	.3	--
23	9.6	1.1	-2.0	-1.5	-3.8	-.4	6.0	10.6	2.3	--	-1.6	.1	.4	--
24	9.8	1.2	-1.8	-2.0	-3.8	.1	7.2	10.3	2.2	--	-1.4	0	.5	--
25	9.6	1.1	-2.2	-2.1	-3.7	.2	7.7	10.0	--	--	-1.9	-.1	.4	--
26	9.6	1.1	-2.8	-2.0	-3.6	.3	7.2	9.8	--	--	-2.2	0	.4	--
27	9.3	1.0	-2.6	-2.3	-3.1	.1	6.7	9.6	2.1	.1	-2.2	.1	.6	--
28	8.8	.9	-2.8	-2.7	-2.5	.4	6.1	9.7	2.2	.1	-1.9	.1	.5	--
29	9.0	.9	-2.9	-2.9	--	1.3	6.5	9.6	2.3	0	-1.7	--	.4	--
30	9.0	.9	-3.2	-3.0	--	2.7	7.2	9.1	2.3	.1	-1.4	--	.5	--
31	8.2	--	-3.0	-3.1	--	3.5	--	9.2	--	--	-1.4	--	.5	--

Table 23.--Daily mean recorded soil temperature data (degrees Celsius), for site 8--Continued

Depth 0.80 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	11.2	8.5	1.9	-1.5	-1.8	-1.8	3.2	--	9.5	3.1	--	-0.8	0.5	0.8
2	11.0	8.2	1.9	-1.5	-1.7	-1.7	3.7	--	8.9	2.9	--	-1.1	.6	.9
3	10.9	7.8	1.8	-1.6	-1.6	-1.6	4.0	--	8.6	--	0.9	-.8	.6	1.1
4	10.7	7.5	1.2	-1.5	-1.4	-.9	4.1	--	8.2	--	.9	-.7	.4	1.4
5	10.6	--	1.2	-1.5	-1.3	-.6	4.1	12.7	7.9	--	.9	-.7	.3	1.5
6	10.5	--	1.2	-1.5	-1.2	-.3	4.1	12.4	7.8	--	.7	-.7	.6	1.8
7	10.4	--	1.2	-1.7	-1.1	-.2	4.5	12.2	7.8	--	--	-.8	.6	2.3
8	10.0	--	1.1	-2.0	-1.1	-.1	4.9	12.3	7.6	--	.9	-.6	.7	3.0
9	9.8	--	1.0	-2.1	-1.1	0	5.1	12.1	7.2	--	.9	0	.8	3.6
10	9.4	--	.9	-1.6	-1.4	0	5.2	11.8	--	--	.8	.2	.6	3.9
11	9.0	--	1.0	-1.5	-1.7	.1	5.6	11.5	6.3	--	.8	.1	.5	4.2
12	8.9	--	.7	-1.3	-2.1	.2	5.9	11.2	--	--	.8	.3	.7	4.4
13	9.1	--	.8	-1.0	-2.5	.3	5.9	10.6	5.5	--	.5	.3	.8	4.6
14	9.2	4.3	.5	-.9	-2.7	.4	5.5	10.0	5.3	--	.2	.4	.8	--
15	9.3	4.1	.4	-.9	-2.9	.4	4.9	9.7	5.0	--	0	.4	.7	--
16	9.1	3.9	.2	-1.0	-3.0	.4	4.3	9.6	4.7	--	-.1	.3	.8	--
17	8.9	3.8	0	-1.0	-3.0	.5	4.2	9.7	4.0	--	-.1	.4	.9	5.8
18	8.9	2.9	-.1	-.9	-3.0	.6	4.4	9.8	4.0	--	-.2	.3	.8	--
19	8.9	2.9	-.4	-.8	-2.8	.6	4.7	10.0	--	--	-.6	.4	.8	--
20	8.9	3.0	-.5	-.7	-2.8	.5	5.0	10.2	--	--	-.5	.4	.8	--
21	8.9	2.9	-.7	-.6	-2.7	.6	5.2	10.3	3.6	--	-.6	.3	.9	--
22	9.1	2.6	-.9	-.5	-2.8	.4	5.2	10.4	3.5	--	-.4	.4	.7	--
23	9.4	2.5	-.8	-.5	-2.7	.1	5.5	10.6	3.4	--	-.6	.6	.8	--
24	9.7	2.5	-.6	-.8	-2.7	.5	6.2	10.5	3.3	--	-.2	.5	.8	--
25	9.8	2.4	-.7	-1.0	-2.7	.7	6.8	10.4	--	--	-.5	.5	.8	--
26	9.8	2.4	-1.1	-.9	-2.6	.8	6.8	10.3	--	--	-.9	.6	.8	--
27	9.7	2.3	-1.2	-1.0	-2.4	.6	6.6	10.1	3.2	1.1	-1.1	.6	.9	--
28	9.4	2.2	-1.3	-1.2	-2.1	.8	6.2	10.1	3.2	1.0	-.9	.6	.9	--
29	9.3	2.2	-1.3	-1.5	--	1.1	6.2	10.0	3.2	1.0	-1.0	--	.8	--
30	9.4	2.1	-1.6	-1.6	--	1.9	6.6	9.7	3.2	1.0	-.9	--	.9	--
31	9.0	--	-1.5	-1.7	--	2.6	--	9.7	--	--	-.9	--	.9	--

Table 23.--Daily mean recorded soil temperature data (degrees Celsius), for site 8--Continued

Depth 1.00 meter														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	11.9	9.3	3.1	-0.1	-0.6	-1.1	2.7	--	10.0	4.0	--	0.1	1.1	1.2
2	11.7	9.0	3.1	-.1	-.6	-1.0	3.2	--	9.6	3.8	--	-.2	1.1	1.3
3	11.6	8.8	3.0	-.2	-.5	-1.0	3.5	--	9.4	--	1.7	.1	1.1	1.5
4	11.4	8.4	2.4	-.2	-.5	-.3	3.8	--	9.0	--	1.7	.1	1.0	1.8
5	11.2	--	2.4	-.2	-.4	-.1	3.9	13.1	8.8	--	1.7	.1	.8	1.8
6	11.2	--	2.4	-.2	-.3	.2	3.9	12.8	8.6	--	1.5	.1	1.1	2.0
7	11.0	--	2.4	-.3	-.3	.3	4.1	12.6	8.5	--	--	0	1.1	2.3
8	10.7	--	2.3	-.6	-.2	.4	4.5	12.6	8.3	--	1.7	.2	1.2	2.7
9	10.6	--	2.2	-.7	-.2	.5	4.7	12.4	8.1	--	1.7	.6	1.2	3.2
10	10.3	--	2.0	-.3	-.3	.5	4.9	12.2	--	--	1.6	.9	1.1	3.5
11	10.0	--	2.1	-.3	-.5	.6	5.2	12.0	7.4	--	1.6	.8	1.0	3.9
12	9.8	--	1.8	-.2	-.7	.7	5.4	11.7	--	--	1.6	.9	1.1	4.1
13	9.8	--	2.0	-.1	-1.0	.7	5.6	11.3	6.7	--	1.3	.9	1.2	4.3
14	9.8	5.7	1.7	.1	-1.2	.9	5.4	10.9	6.5	--	1.1	1.0	1.3	--
15	9.8	5.5	1.7	.1	-1.3	.9	5.1	10.5	6.2	--	.8	1.0	1.2	--
16	9.7	5.3	1.5	.1	-1.5	.8	4.6	10.4	5.9	--	.7	.9	1.2	--
17	9.6	5.1	1.4	.1	-1.6	1.0	4.5	10.2	5.2	--	.8	1.0	1.3	5.2
18	9.5	4.2	1.3	.1	-1.6	1.1	4.5	10.3	5.2	--	.7	.9	1.3	--
19	9.5	4.2	1.1	.2	-1.6	1.1	4.6	10.4	--	--	.4	1.0	1.2	--
20	9.4	4.2	1.0	.2	-1.6	1.0	4.8	10.5	--	--	.5	1.0	1.2	--
21	9.4	4.2	.8	.2	-1.6	1.1	5.0	10.6	4.7	--	.4	.9	1.3	--
22	9.5	4.0	.6	.3	-1.6	.9	5.1	10.7	4.6	--	.5	1.0	1.1	--
23	9.6	3.8	.6	.4	-1.5	.6	5.2	10.8	4.5	--	.4	1.2	1.1	--
24	9.8	3.8	.6	.2	-1.5	1.0	5.6	10.8	4.4	--	.7	1.1	1.2	--
25	10.0	3.7	.6	.1	-1.6	1.2	6.1	10.7	--	--	.4	1.1	1.2	--
26	10.0	3.7	.4	.1	-1.5	1.3	6.4	10.6	--	--	.1	1.1	1.2	--
27	10.0	3.5	.3	.1	-1.4	1.1	6.4	10.5	4.1	2.0	-.1	1.1	1.3	--
28	9.8	3.4	.1	0	-1.3	1.3	6.2	10.4	4.1	1.9	.1	1.1	1.3	--
29	9.7	3.4	.2	-.2	--	1.4	6.1	10.4	4.2	1.9	-.1	--	1.2	--
30	9.7	3.3	-.1	-.3	--	1.8	6.3	10.2	4.1	1.9	0	--	1.3	--
31	9.6	--	-.1	-.4	--	2.3	--	10.2	--	--	0	--	1.3	--

Table 23.--Daily mean recorded soil temperature data (degrees Celsius), for site 8--Continued

Depth 1.25 meters														
Period: October 1985-April 1986								Period: October 1986-April 1987						
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	12.6	9.9	4.4	1.5	0.8	-0.1	2.6	--	10.4	5.1	--	1.0	1.7	1.7
2	12.4	9.8	4.5	1.4	.8	-.1	3.0	--	10.2	4.9	--	.7	1.7	1.7
3	12.3	9.6	4.4	1.3	.8	-.1	3.2	--	10.2	--	2.8	1.0	1.8	2.0
4	12.0	9.3	3.8	1.3	.8	.4	3.5	--	9.8	--	2.7	1.0	1.7	2.3
5	11.9	--	3.8	1.2	.8	.7	3.7	13.3	9.7	--	2.7	1.0	1.4	2.3
6	11.8	--	3.8	1.2	.8	.9	3.8	13.0	9.5	--	2.5	1.0	1.7	2.4
7	11.7	--	3.7	1.1	.8	.9	3.9	12.9	9.3	--	--	.9	1.7	2.5
8	11.4	--	3.6	.9	.9	1.0	4.0	12.8	9.1	--	2.7	1.1	1.8	2.8
9	11.3	--	3.5	.9	.9	1.2	4.3	12.7	9.0	--	2.6	1.5	1.8	3.0
10	11.2	--	3.4	1.3	.9	1.2	4.5	12.6	--	--	2.6	1.7	1.7	3.2
11	11.0	--	3.4	1.2	.8	1.3	4.7	12.4	8.5	--	2.5	1.6	1.6	3.6
12	10.8	--	3.1	1.2	.7	1.3	4.9	12.2	--	--	2.5	1.7	1.7	3.8
13	10.6	--	3.3	1.2	.5	1.4	5.1	11.9	7.9	--	2.2	1.7	1.8	4.0
14	10.5	7.3	3.1	1.3	.3	1.5	5.2	11.7	7.8	--	2.0	1.8	1.8	--
15	10.5	7.1	3.1	1.3	.2	1.5	5.1	11.4	7.5	--	1.7	1.7	1.7	--
16	10.4	6.8	3.0	1.3	.1	1.5	4.7	11.2	7.3	--	1.7	1.7	1.8	--
17	10.3	6.7	2.9	1.3	0	1.6	4.8	11.0	6.5	--	1.7	1.7	1.8	5.1
18	10.3	5.6	2.8	1.3	-.1	1.7	4.7	10.9	6.5	--	1.7	1.7	1.8	--
19	10.2	3.7	2.6	1.3	-.1	1.7	4.6	10.9	--	--	1.4	1.7	1.8	--
20	10.1	4.4	2.5	1.4	-.2	1.7	4.7	10.9	--	--	1.5	1.7	1.8	--
21	10.1	5.7	2.4	1.3	-.2	1.7	4.9	10.9	5.9	--	1.4	1.6	1.8	--
22	10.0	5.4	2.2	1.4	-.3	1.5	5.0	11.0	5.8	--	1.5	1.7	1.6	--
23	10.0	5.3	2.1	1.5	-.1	1.2	5.1	11.0	5.7	--	1.4	1.9	1.7	--
24	10.1	5.3	2.1	1.3	-.2	1.6	5.3	11.0	5.6	--	1.7	1.8	1.7	--
25	10.2	5.2	2.0	1.2	-.2	1.8	5.6	11.0	--	--	1.5	1.7	1.7	--
26	10.3	5.0	1.9	1.3	-.2	1.9	5.8	11.0	--	--	1.1	1.8	1.7	--
27	10.2	4.9	1.9	1.2	-.2	1.7	6.0	10.9	5.3	3.1	1.0	1.8	1.8	--
28	10.2	4.8	1.7	1.2	-.1	1.9	6.0	10.8	5.3	3.0	1.1	1.8	1.8	--
29	10.2	4.8	1.7	1.1	--	2.0	6.0	10.8	5.3	2.9	1.0	--	1.7	--
30	10.1	4.7	1.5	1.1	--	2.1	6.0	10.7	5.2	2.9	1.0	--	1.8	--
31	10.0	--	1.5	1.0	--	2.3	--	10.6	--	--	1.0	--	1.7	--

Table 23.--Daily mean recorded soil temperature data (degrees Celsius), for site 8--Continued

Depth 1.50 meters														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	12.9	10.3	5.6	2.7	2.0	0.9	2.9	--	10.9	6.2	--	1.9	2.4	2.3
2	12.8	10.2	5.6	2.7	1.9	.8	3.1	--	10.8	6.0	--	1.7	2.4	2.3
3	12.7	10.2	5.5	2.6	1.9	.8	3.3	--	10.8	--	3.8	1.8	2.5	2.5
4	12.4	9.9	5.2	2.5	1.8	1.3	3.5	--	10.5	--	3.8	1.9	2.3	2.8
5	12.3	--	5.0	2.4	1.8	1.5	3.7	13.5	10.5	--	3.8	1.8	2.1	2.8
6	12.2	--	4.9	2.4	1.8	1.6	3.8	13.3	10.3	--	3.6	1.8	2.4	2.8
7	12.1	--	4.8	2.3	1.8	1.7	3.9	13.2	10.1	--	--	1.7	2.4	2.9
8	11.8	--	4.7	2.1	1.8	1.7	4.0	13.1	9.9	--	3.7	1.9	2.5	3.0
9	11.8	--	4.6	2.2	1.8	1.8	4.2	13.0	9.8	--	3.7	2.4	2.5	3.2
10	11.7	--	4.5	2.5	1.8	1.9	4.4	12.9	--	--	3.6	2.6	2.3	3.3
11	11.5	--	4.5	2.4	1.8	1.9	4.6	12.8	9.4	--	3.5	2.4	2.2	3.5
12	11.4	--	4.2	2.4	1.7	1.9	4.7	12.6	--	--	3.6	2.6	2.3	3.7
13	11.2	--	4.4	2.3	1.6	2.0	4.8	12.4	9.0	--	3.2	2.6	2.4	3.9
14	11.1	8.3	4.2	2.4	1.5	2.1	5.0	12.3	8.9	--	2.9	2.6	2.5	--
15	11.0	8.2	4.2	2.4	1.4	2.1	5.0	12.1	8.7	--	2.6	2.5	2.4	--
16	10.9	7.9	4.1	2.4	1.3	2.1	4.8	11.9	8.5	--	2.5	2.5	2.4	--
17	10.8	7.8	4.1	2.4	1.2	2.3	5.0	11.6	7.7	--	2.6	2.5	2.4	7.9
18	10.8	6.8	4.0	2.3	1.2	2.3	4.9	11.6	7.7	--	2.5	2.5	2.4	--
19	10.7	5.1	3.8	2.3	1.1	2.3	4.8	11.5	--	--	2.3	2.5	2.4	--
20	10.6	5.7	3.7	2.4	1.0	2.3	4.8	11.5	--	--	2.4	2.5	2.4	--
21	10.6	6.8	3.6	2.3	1.0	2.3	4.9	11.4	7.1	--	2.3	2.4	2.4	--
22	10.5	6.6	3.5	2.4	.9	2.1	5.0	11.4	7.0	--	2.5	2.5	2.2	--
23	10.4	6.4	3.4	2.4	1.0	1.7	5.1	11.5	6.9	--	2.3	2.6	2.3	--
24	10.4	6.4	3.3	2.2	.9	2.2	5.2	11.4	6.8	--	2.7	2.5	2.3	--
25	10.5	6.3	3.2	2.2	.9	2.4	5.3	11.4	--	--	2.4	2.5	2.3	--
26	10.6	6.1	3.1	2.3	.8	2.5	5.5	11.3	--	--	2.1	2.5	2.3	--
27	10.5	6.1	3.1	2.2	.9	2.2	5.7	11.3	6.5	4.2	1.9	2.5	2.4	--
28	10.5	6.0	2.9	2.2	.9	2.5	5.8	11.3	6.4	4.1	2.1	2.5	2.4	--
29	10.5	5.9	3.0	2.2	--	2.6	5.8	11.2	6.4	4.0	1.9	--	2.3	--
30	10.4	5.8	2.8	2.1	--	2.6	5.9	11.1	6.3	4.0	2.0	--	2.3	--
31	10.4	--	2.8	2.1	--	2.7	--	11.1	--	--	1.9	--	2.3	--

Table 23.--Daily mean recorded soil temperature data (degrees Celsius), for site 8--Continued

Depth 1.75 meters														
Period: October 1985-April 1986								Period: October 1986-April 1987						
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	13.0	10.5	6.3	3.7	2.8	1.7	3.1	--	11.1	6.9	--	2.3	2.9	2.5
2	12.9	10.4	6.3	3.6	2.8	1.6	3.3	--	11.0	6.7	--	2.1	2.9	2.5
3	12.8	10.4	6.2	3.5	2.7	1.5	3.4	--	11.1	--	4.6	2.2	2.9	2.8
4	12.6	10.2	6.0	3.4	2.7	1.9	3.5	--	10.8	--	4.5	2.3	2.7	3.1
5	12.5	--	5.8	3.4	2.6	2.1	3.7	13.4	10.8	--	4.5	2.2	2.5	3.1
6	12.4	--	5.6	3.4	2.6	2.3	3.8	13.2	10.7	--	4.2	2.2	2.8	3.1
7	12.3	--	5.6	3.2	2.6	2.3	3.9	13.2	10.5	--	--	2.1	2.8	3.1
8	12.0	--	5.5	3.0	2.6	2.3	3.9	13.1	10.4	--	4.4	2.2	2.9	3.2
9	12.0	--	5.4	3.1	2.5	2.4	4.1	13.0	10.2	--	4.4	2.9	2.9	3.3
10	11.9	--	5.2	3.4	2.5	2.4	4.2	12.9	--	--	4.3	3.1	2.7	3.3
11	11.8	--	5.3	3.4	2.5	2.5	4.4	12.8	9.9	--	4.2	3.0	2.6	3.5
12	11.7	--	5.0	3.3	2.5	2.5	4.5	12.7	--	--	4.2	3.1	2.8	3.7
13	11.6	--	5.1	3.2	2.4	2.5	4.6	12.6	9.6	--	3.8	3.1	2.8	3.8
14	11.4	9.0	5.0	3.2	2.4	2.6	4.7	12.5	9.6	--	3.3	3.2	2.9	--
15	11.3	8.9	5.0	3.2	2.3	2.6	4.8	12.3	9.4	--	3.0	3.1	2.8	--
16	11.2	8.7	4.9	3.2	2.2	2.5	4.6	12.2	9.2	--	2.9	3.0	2.8	--
17	11.2	8.5	4.8	3.2	2.1	2.7	4.9	12.0	8.5	--	2.9	3.0	2.8	4.7
18	11.1	7.4	4.8	3.1	2.1	2.7	4.9	11.9	8.4	--	2.9	3.0	2.8	--
19	11.0	5.8	4.6	3.1	2.0	2.7	4.8	11.8	--	--	2.7	3.0	2.8	--
20	10.9	6.4	4.6	3.1	1.9	2.7	4.8	11.7	--	--	2.8	3.0	2.8	--
21	10.9	7.5	4.5	3.1	1.9	2.7	4.9	11.7	7.9	--	2.7	2.9	2.8	--
22	10.8	7.3	4.3	3.1	1.8	2.5	4.9	11.6	7.8	--	2.9	3.0	2.6	--
23	10.7	7.2	4.3	3.1	1.9	2.1	5.0	11.6	7.7	--	2.7	3.2	2.6	--
24	10.7	7.1	4.2	3.0	1.8	2.6	5.1	11.5	7.6	--	3.1	3.0	2.7	--
25	10.7	7.0	4.1	3.0	1.7	2.8	5.1	11.5	--	--	2.8	3.0	2.6	--
26	10.7	6.9	4.0	3.0	1.7	2.9	5.2	11.5	--	--	2.5	3.0	2.6	--
27	10.7	6.8	4.0	3.0	1.7	2.6	5.4	11.5	7.2	4.9	2.4	3.0	2.7	--
28	10.6	6.7	3.8	3.0	1.7	2.9	5.5	11.4	7.2	4.9	2.5	3.0	2.7	--
29	10.6	6.6	3.9	2.9	--	3.0	5.6	11.4	7.1	4.8	2.4	--	2.6	--
30	10.6	6.6	3.7	2.9	--	3.0	5.6	11.3	7.0	4.8	2.4	--	2.6	--
31	10.5	--	3.7	2.9	--	3.1	--	11.3	--	--	2.3	--	2.6	--

Table 23.--Daily mean recorded soil temperature data (degrees Celsius), for site 8--Continued

Depth 2.00 meters														
Day	Period: October 1985-April 1986							Period: October 1986-April 1987						
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	13.1	10.6	7.0	4.5	3.5	2.4	3.5	--	11.3	7.6	--	2.8	3.4	2.9
2	13.0	10.6	7.0	4.4	3.5	2.3	3.6	--	11.2	7.3	--	2.6	3.4	2.9
3	12.9	10.6	6.9	4.3	3.4	2.2	3.6	--	11.3	--	5.2	2.7	3.4	3.1
4	12.7	10.5	6.5	4.2	3.4	2.5	3.7	--	11.1	--	5.2	2.7	3.1	3.5
5	12.6	--	6.4	4.2	3.4	2.8	3.8	13.3	11.1	--	5.1	2.6	2.9	3.5
6	12.5	--	6.3	4.1	3.3	2.9	3.9	13.2	11.0	--	4.9	2.6	3.3	3.5
7	12.5	--	6.3	4.0	3.2	2.9	4.0	13.2	10.9	--	--	2.6	3.3	3.5
8	12.2	--	6.2	3.7	3.2	2.9	4.0	13.2	10.7	--	5.0	2.6	3.3	3.5
9	12.2	--	6.1	3.9	3.2	3.0	4.1	13.0	10.6	--	5.0	3.5	3.4	3.6
10	12.1	--	5.9	4.2	3.2	2.9	4.2	13.0	--	--	4.9	3.7	3.2	3.6
11	12.0	--	6.0	4.2	3.2	3.0	4.4	12.9	10.3	--	4.8	3.5	3.0	3.7
12	11.9	--	5.7	4.1	3.2	3.0	4.4	12.8	--	--	4.8	3.7	3.2	3.8
13	11.8	--	5.8	4.0	3.1	3.0	4.5	12.7	10.1	--	4.3	3.7	3.3	3.9
14	11.7	9.5	5.7	4.0	3.1	3.1	4.6	12.6	10.1	--	3.8	3.7	3.3	--
15	11.6	9.4	5.7	4.0	3.1	3.1	4.7	12.5	10.0	--	3.5	3.6	3.2	--
16	11.5	9.2	5.6	3.9	3.0	3.0	4.5	12.5	9.8	--	3.4	3.6	3.2	--
17	11.4	9.1	5.5	3.9	2.9	3.2	4.9	12.3	9.1	--	3.4	3.6	3.2	--
18	11.4	7.9	5.5	3.9	2.9	3.2	4.9	12.2	9.1	--	3.3	3.5	3.2	--
19	11.3	6.3	5.4	3.9	2.8	3.2	4.9	12.1	--	--	3.2	3.5	3.2	--
20	11.2	7.0	5.4	3.9	2.7	3.2	4.9	12.0	--	--	3.3	3.6	3.2	--
21	11.1	8.2	5.2	3.8	2.7	3.2	4.9	11.9	8.6	--	3.2	3.5	3.2	--
22	11.0	8.0	5.1	3.8	2.6	2.9	4.9	11.9	8.5	--	3.4	3.5	3.1	--
23	10.9	7.8	5.1	3.8	2.6	2.4	5.0	11.8	8.3	--	3.2	3.7	3.1	--
24	10.9	7.8	5.0	3.7	2.6	3.1	5.1	11.7	8.2	--	3.6	3.5	3.1	--
25	10.9	7.7	4.9	3.7	2.5	3.2	5.1	11.7	--	--	3.3	3.5	3.0	--
26	10.9	7.6	4.8	3.7	2.4	3.3	5.2	11.7	--	--	3.0	3.5	3.0	--
27	10.8	7.5	4.8	3.6	2.5	3.1	5.3	11.6	7.9	5.6	2.9	3.5	3.1	--
28	10.7	7.4	4.6	3.7	2.4	3.4	5.3	11.6	7.8	5.6	3.0	3.5	3.1	--
29	10.8	7.3	4.7	3.6	--	3.4	5.4	11.5	7.8	5.5	2.8	--	3.0	--
30	10.7	7.3	4.5	3.6	--	3.4	5.5	11.5	7.7	5.5	2.9	--	3.0	--
31	10.7	--	4.5	3.6	--	3.5	--	11.5	--	--	2.8	--	3.0	--

Table 23.--Daily mean recorded soil temperature data (degrees Celsius), for site 8--Continued

Depth 2.50 meters														
Period: October 1985-April 1986								Period: October 1986-April 1987						
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	12.7	10.9	8.2	5.8	4.8	3.7	4.2	--	--	--	--	--	--	--
2	12.7	10.9	8.2	5.8	4.8	3.6	4.3	--	--	--	--	--	--	--
3	12.7	10.9	8.0	5.7	4.7	3.4	4.3	--	--	--	--	--	--	--
4	12.5	10.8	7.8	5.6	4.7	3.7	4.3	--	--	--	--	--	--	--
5	12.5	--	7.6	5.6	4.6	4.0	4.3	--	--	--	--	--	--	--
6	12.4	--	7.5	5.5	4.6	4.1	4.3	--	--	--	--	--	--	--
7	12.4	--	7.4	5.4	4.5	4.0	4.4	--	--	--	--	--	--	--
8	12.2	--	7.4	5.3	4.5	4.0	4.4	--	--	--	--	--	--	--
9	12.2	--	7.3	5.3	4.5	4.1	4.5	--	--	--	--	--	--	--
10	12.1	--	7.1	5.6	4.5	4.0	4.5	--	--	--	--	--	--	--
11	12.1	--	7.1	5.6	4.4	4.1	4.7	--	--	--	--	--	--	--
12	12.0	--	6.9	5.5	4.4	4.0	4.6	--	--	--	--	--	--	--
13	11.9	--	7.0	5.5	4.3	4.0	4.7	--	--	--	--	--	--	--
14	11.8	10.2	6.9	5.4	4.3	4.1	4.8	--	--	--	--	--	--	--
15	11.8	10.1	6.9	5.4	4.3	4.1	4.8	--	--	--	--	--	--	--
16	11.7	10.0	6.8	5.3	4.3	3.9	4.6	--	--	--	--	--	--	--
17	11.6	9.9	6.7	5.3	4.2	4.1	5.0	--	--	--	--	--	--	--
18	11.6	8.7	6.7	5.2	4.2	4.2	5.1	--	--	--	--	--	--	--
19	11.5	7.4	6.6	5.2	4.2	4.1	5.0	--	--	--	--	--	--	--
20	11.5	8.0	6.6	5.2	4.1	4.1	5.1	--	--	--	--	--	--	--
21	11.4	9.1	6.5	5.1	4.0	4.1	5.1	--	--	--	--	--	--	--
22	11.3	9.0	6.5	5.1	3.9	3.7	5.1	--	--	--	--	--	--	--
23	11.2	8.8	6.4	5.1	4.0	3.2	5.2	--	--	--	--	--	--	--
24	11.2	8.8	6.3	5.0	3.8	3.9	5.2	--	--	--	--	--	--	--
25	11.1	8.8	6.2	4.9	3.8	4.1	5.2	--	--	--	--	--	--	--
26	11.2	8.7	6.2	4.9	3.8	4.2	5.3	--	--	--	--	--	--	--
27	11.1	8.6	6.1	4.9	3.8	3.9	5.3	--	--	--	--	--	--	--
28	11.0	8.5	6.0	4.9	3.7	4.2	5.3	--	--	--	--	--	--	--
29	11.0	8.5	6.0	4.9	--	4.2	5.4	--	--	--	--	--	--	--
30	10.9	8.4	5.9	4.9	--	4.2	5.5	--	--	--	--	--	--	--
31	10.9	--	5.9	4.9	--	4.2	--	--	--	--	--	--	--	--

Table 24.--Soil descriptions

Site and location: U.S. Geological Survey - Oakes, 30.5 m south and 45.8 m west of the east quarter corner of sec. 26, T. 130 N., R. 59 W., Dickey County, N.Dak.

Described: 05/07/86 by M. D. Sweeney, North Dakota Agricultural Experiment Station, Fargo, N.Dak.

Soil type and classification: Hecla sand; sandy, mixed Aquic Haploboroll.

Physiography and parent material: Glaciofluvial-lacustrine deposits in the glacial Lake Dakota basin that have been reworked by wind to some extent.

Drainage: Moderately well. Permeability: Rapid. Moisture: Near field capacity. Ground water: Depths >1.52 m. Vegetation: Rye.

NOTES: Moist colors unless otherwise specified.

Soil profile: 2 m north of site 3.

Alp 0.0-0.20 m, very dark brown (10YR 2/2) sand, dark-gray (10YR 4/1) dry; weak coarse and medium subangular blocky structure; soft, very friable, nonsticky and nonplastic; many very fine roots; clear smooth boundary.

A2 0.20-0.66 m, black (10YR 2/1) sand, dark-gray (10YR 4/1) dry; weak coarse prismatic parting to weak coarse and medium subangular blocky structure; soft, very friable, nonsticky and nonplastic; common very fine roots, gradual wavy boundary.

Bw1 0.66-0.79 m, very dark grayish brown (10YR 3/2) sand, grayish-brown (10YR 5/2) dry; weak coarse prismatic parting to weak coarse and medium subangular blocky structure; soft, very friable, nonsticky and nonplastic; common very fine roots; gradual wavy boundary.

Bw2 0.79-0.91 m, dark-grayish-brown (10YR 4/2) sand, grayish-brown (10YR 5/2) dry; weak coarse prismatic parting to weak coarse and medium subangular blocky structure; soft, very friable, nonsticky and nonplastic; common very fine roots; clear wavy boundary.

C1 0.91-1.27 m, light-olive-brown (2.5Y 4.5/4) sand, light-yellowish-brown (2.5Y 6/4) dry with few fine faint dark-yellowish-brown (10YR 4/4) mottles; single grained; loose, nonsticky and nonplastic, few very fine roots; gradual wavy boundary.

C2 1.27-1.65 m, light-yellowish-brown (2.5Y 6/4) sand, pale-yellow (2.5Y 7/4) dry with few medium distinct dark-yellowish-brown (10YR 3/4) and common medium distinct dark-yellowish-brown (10YR 4/4) mottles; single grained; loose, nonsticky and nonplastic; few very fine roots; gradual wavy boundary.

Table 24.--Soil descriptions--Continued

- C3 1.65-1.83 m, dark-grayish-brown (2.5Y 4/2) sand, light-gray (2.5Y 7/2) dry with common medium distinct dark-yellowish-brown (10YR 4/4) mottles; single grained; loose, nonsticky and nonplastic; gradual wavy boundary.
- C4 1.83-2.34 m, grayish-brown (2.5Y 5/2) sand, white (2.5Y 8/2) dry; single grained; loose nonsticky and nonplastic; clear wavy boundary.
- Cg 2.34-2.46 m, dark-gray (5Y 4/1) loamy fine sand, light-gray (5Y 7/1) dry; single grained; very friable to loose, slightly sticky and nonplastic; clear wavy boundary.
- C5 2.46-2.74 m, multicolored sand; single grained, loose, nonsticky and nonplastic.

Site and location: U.S. Geological Survey - Oakes, 27.4 m south and 32.3 m west of the east quarter corner of sec. 26, T. 130 N., R. 59 W., Dickey County, N.Dak.

Described: 05/07/86 by M. D. Sweeney, North Dakota Agricultural Experiment Station, Fargo, N.Dak.

Soil type and classification: Hecla sand; sandy, mixed Aquic Haploboroll.

Physiography and parent material: Glaciofluvial-lacustrine deposits in the glacial Lake Dakota basin that have been reworked by wind to some extent.

Drainage: Moderately well. Permeability: Rapid. Moisture: Near field capacity. Ground water: Depths >1.52 m. Vegetation: Rye.

NOTES: Moist colors unless otherwise specified.

Soil profile: 2 m north of site 6.

- Alp 0.0-0.20 m, very dark brown (10YR 2/2) sand, dark-gray (10YR 4/1) dry; weak medium subangular blocky structure; soft, very friable, nonsticky and nonplastic; many very fine roots; clear smooth boundary.
- A2 0.20-0.56 m, black (10YR 2/1) sand, dark-gray (10YR 4/1) dry; weak coarse prismatic parting to weak coarse and medium subangular blocky structure; soft, very friable, very slightly sticky and nonplastic; common very fine roots; gradual wavy boundary.
- Bw1 0.56-0.76 m, very dark grayish brown (10YR 3/2) sand, dark-gray (10YR 4/1) dry; weak coarse prismatic parting to weak medium subangular blocky structure; soft, very friable, nonsticky and nonplastic; common very fine roots; gradual wavy boundary.

Table 24.--Soil descriptions--Continued

- Bw2 0.76-0.96 m, dark-grayish-brown (10YR 4/2) sand, grayish-brown (10YR 5/2) dry with common medium faint dark-yellowish-brown (10YR 4/4) mottles; weak coarse prismatic parting to weak medium subangular blocky structure; soft, very friable, nonsticky and nonplastic; common very fine roots; gradual wavy boundary.
- C1 0.96-1.27 m, light-olive-brown (2.5Y 5/4) sand, light-yellowish-brown (2.5Y 6/4) dry with common medium distinct dark-yellowish-brown (10YR 4/4) mottles; single grained; loose, nonsticky and nonplastic; few very fine roots; gradual wavy boundary.
- C2 1.27-1.63 m, light-yellowish-brown (2.5Y 6/4) sand, pale-yellow (2.5Y 7/4) dry with common medium distinct dark-yellowish-brown (10YR 4/4) mottles; single grained; loose, nonsticky and nonplastic; few very fine roots; gradual wavy boundary.
- C3 1.63-1.98 m, light-olive-brown (2.5Y 5/4) sand, pale-yellow (2.5Y 8/4) dry with common medium distinct dark-yellowish-brown (10YR 4/4) mottles; single grained; loose, nonsticky and nonplastic; clear wavy boundary.
- C4 1.98-2.24 m, dark-grayish-brown (2.5Y 4/2) sand, light-gray (2.5Y 7/2) dry; single grained; loose, nonsticky and nonplastic; clear wavy boundary.
- Cg 2.24-2.49 m, dark-gray (5Y 4/1) loamy fine sand, light-gray (2.5Y 7/1) dry; single grained; very friable to loose, slightly sticky and nonplastic; clear wavy boundary.
- C5 2.49-2.74 m, multicolored sand; single grained; loose, nonsticky and nonplastic; slight effervescence.
- Site and location: U.S. Geological Survey - Oakes, 25.9 m south and 21.4 m west of the east quarter corner of sec. 26, T. 130 N., R. 59 W., Dickey County, N.Dak.
- Described: 05/07/86 by M. D. Sweeney, North Dakota Agricultural Experiment Station, Fargo, N.Dak.
- Soil type and classification: Hecla sand; sandy, mixed Aquic Haploboroll.
- Physiography and parent material: Glaciofluvial-lacustrine deposits in the glacial Lake Dakota basin that have been reworked by wind to some extent.
- Drainage: Moderately well. Permeability: Rapid. Moisture: Near field capacity. Ground water: Depths >1.52 m. Vegetation: Rye.
- NOTES: Moist colors unless otherwise specified.

Table 24.--Soil descriptions--Continued

Soil profile: 2 m north of site 9.

- Alp 0.0-0.20 m, very dark brown (10YR 2/2) sand, dark-gray (10YR 4/1) dry; weak medium subangular blocky structure; soft, very friable, nonsticky and nonplastic; many very fine roots; clear smooth boundary.
- A2 0.20-0.46 m, black (10YR 2/1) sand, dark-gray (10YR 4/1) dry; weak coarse prismatic parting to weak coarse and medium subangular blocky structure; soft, very friable, very slightly sticky and nonplastic; common very fine roots; clear wavy boundary.
- B 0.46-0.81 m, very dark brown (10YR 2/2) sand, dark-gray (10YR 4/1) dry, weak coarse prismatic parting to weak coarse and medium subangular blocky structure; soft, very friable, very slightly sticky and nonplastic; common very fine roots; gradual wavy boundary.
- Bw 0.81-0.94 m, dark-grayish-brown (2.5Y 4/2) sand, grayish-brown (2.5Y 5/2) dry with common medium faint-dark-brown (10YR 4/3) mottles; weak coarse prismatic parting to weak medium subangular blocky structure; soft, very friable, nonsticky and nonplastic, few very fine roots; clear wavy boundary.
- C1 0.94-1.27 m, light-olive-brown (2.5Y 5/4) sand, pale-yellow to light-yellowish-brown (2.5Y 6.5/4) dry with common medium distinct black (10YR 2/1) and yellowish-brown (10YR 5/6) mottles; single grained; loose, nonsticky and nonplastic; few very fine roots; gradual wavy boundary.
- C2 1.27-1.60 m, light-yellowish-brown (2.5Y 6/4) sand, pale-yellow (2.5Y 7.5/4) dry with few medium distinct black (10YR 2/1) mottles; single grained; loose, nonsticky and nonplastic; gradual wavy boundary.
- C3 1.60-1.83 m, light-olive-brown (2.5Y 5/4) sand, pale-yellow (2.5Y 8/4) dry with common medium distinct dark-yellowish-brown (10YR 4/4) mottles; single grained; loose, nonsticky and nonplastic; strong effervescence; clear wavy boundary.
- C4 1.83-2.03 m, grayish-brown (2.5Y 5/2) sand, white (2.5Y 8/2) dry; single grained; loose, nonsticky and nonplastic; strong effervescence; clear wavy boundary.
- Cg 2.03-2.44 m, dark-gray (5Y 4/1) loamy fine sand, light-gray (5Y 7/1) dry; single grained; very friable to loose, slightly sticky and nonplastic; strong effervescence; clear wavy boundary.
- C5 2.44-2.64 m, multicolored sand; single grained; loose, nonsticky and nonplastic; slight effervescence.
-

Table 25.--Particle-size analyses of soil

[μ m, micrometer; analyses were determined using the pipette method]

Sample depth interval (meters)	Percent by weight											U.S. Department of Agriculture textural class
	Very coarse sand (2,000- 1,000 μ m)	Coarse sand (1,000- 500 μ m)	Medium sand (500- 250 μ m)	Fine sand (250- 100 μ m)	Very fine sand (100- 50 μ m)	Total sand (2,000- 50 μ m)	Silt (50- 2 μ m)	Clay (<2 μ m)	Fine silt (20- 2 μ m)	Coarse silt (50- 20 μ m)	Carbonate clay (<2 μ m)	
	Site 3											
0-0.15	0	2.1	28.2	46.4	10.7	87.4	9.7	2.8	3.0	6.8	0	Sand.
0.15-0.30	.1	2.9	31.4	44.4	9.2	88.0	8.4	3.6	3.0	5.4	0	Sand.
0.30-0.45	0	2.7	32.1	45.9	8.3	88.9	8.6	2.4	4.4	4.2	0	Sand.
0.45-0.60	0	2.6	32.0	46.8	8.6	90.0	6.5	3.5	2.6	3.9	0	Sand.
0.60-0.75	.1	2.3	29.9	50.1	9.9	92.4	5.6	2.0	2.6	3.0	0	Fine sand.
0.75-0.90	0	2.1	32.8	51.4	7.6	93.9	4.0	2.0	2.9	1.1	0	Fine sand.
0.90-1.20	.3	1.8	31.7	51.1	8.4	93.4	6.0	.6	3.7	2.4	0	Fine sand.
1.20-1.50	.1	1.6	39.2	47.9	6.3	95.1	4.5	.4	2.2	2.3	0	Sand.
1.50-1.80	0	1.1	30.4	50.4	7.7	89.6	7.7	2.8	1.8	5.8	0	Fine sand.
1.80-2.10	.1	.8	25.2	59.0	5.0	90.1	7.5	2.4	4.0	3.5	0	Fine sand.
2.10-2.40	.1	1.3	23.1	41.3	21.3	87.1	9.4	3.5	3.7	5.7	0	Sand.

Table 25.--Particle-size analyses of soil--Continued

Sample depth interval (meters)	Very coarse sand (2,000- 1,000 μ m)	Coarse sand (1,000- 500 μ m)	Medium sand (500- 250 μ m)	Fine sand (250- 100 μ m)	Very				Clay ($<2\ \mu$ m)	Fine silt (20- 2 μ m)	Coarse silt (50- 20 μ m)	Carbonate clay ($<2\ \mu$ m)	U.S. Department of Agriculture textural class
					fine sand (100- 50 μ m)	Total sand (2,000- 50 μ m)	Silt (50- 2 μ m)						
					Percent by weight								
					Site 6								
0-0.15	0.1	1.5	26.4	50.8	9.9	88.7	8.9	2.4	2.6	6.3	0		Fine sand.
0.15-0.30	.1	2.3	30.4	46.1	8.7	87.5	9.7	2.8	4.5	5.2	0		Sand.
0.30-0.45	.2	2.3	32.4	46.1	7.9	88.8	8.0	3.2	3.7	4.3	0		Sand.
0.45-0.60	.1	1.7	26.8	48.9	10.0	87.6	4.8	7.6	2.1	2.7	0		Sand.
0.60-0.75	0	1.9	30.0	48.8	8.8	89.5	6.7	3.9	2.9	3.7	0		Sand.
0.75-0.90	.1	1.7	31.6	49.3	8.0	90.8	7.2	2.0	3.7	3.5	0		Sand.
0.90-1.20	.1	1.6	27.5	54.9	8.3	92.4	5.2	2.4	2.2	3.0	0		Fine sand.
1.20-1.50	.3	1.3	33.1	50.6	6.4	91.7	5.9	2.4	1.5	4.4	0		Fine sand.
1.50-1.80	.1	1.3	32.6	53.8	4.7	92.4	7.4	.2	5.1	2.3	0		Fine sand.
1.80-2.10	0	1.4	37.3	45.1	6.6	90.3	6.9	2.8	1.8	5.1	0		Sand.
2.10-2.40	0	1.4	30.8	38.9	14.1	85.1	11.7	3.2	5.9	5.8	0		Sand.

Table 25.---Particle-size analyses of soil---Continued

Sample depth interval (meters)	Very coarse sand (2,000-1,000 μm)	Coarse sand (1,000-500 μm)	Medium sand (500-250 μm)	Fine sand (250-100 μm)	Very fine sand			Total sand (2,000-50 μm)	Silt (50-2 μm)	Clay ($<2 \mu\text{m}$)	Fine silt (20-2 μm)	Coarse silt (50-20 μm)	Carbonate clay ($<2 \mu\text{m}$)	U.S. Department of Agriculture textural class
					50 μm	100 μm	250 μm							
					Percent by weight									
Site 9														
0-0.15	0	2.0	31.1	47.4	9.0	89.5	8.5	2.1	3.3	5.1	0	Sand.		
0.15-0.30	0	2.4	32.9	44.3	9.7	89.3	7.5	3.2	3.0	4.6	0	Sand.		
0.30-0.45	0	2.8	32.9	41.2	8.6	85.5	10.3	4.3	4.8	5.5	0	Sand.		
0.45-0.60	0	2.5	32.9	42.7	8.4	86.4	8.2	5.4	3.3	4.9	0	Sand.		
0.60-0.75	.2	2.8	30.3	42.3	10.1	85.7	8.6	5.7	2.2	6.4	0	Sand.		
0.75-0.90	.2	3.3	34.7	44.2	7.9	90.4	6.1	3.5	2.2	3.9	0	Sand.		
0.90-1.20	0	2.0	29.1	47.1	9.3	87.5	10.5	2.1	4.0	6.4	0	Sand.		
1.20-1.50	0	1.8	44.8	44.4	2.3	93.4	5.3	1.3	2.9	2.3	0	Sand.		
1.50-1.80	.1	2.7	44.3	38.4	4.9	90.4	6.8	2.8	4.7	2.1	0	Sand.		
1.80-2.10	.1	2.1	39.2	36.7	6.7	84.8	9.9	5.3	4.7	5.1	0	Sand.		
2.10-2.40	.2	4.2	45.1	32.6	7.4	89.5	4.8	5.7	.4	4.5	0	Sand.		

Table 26.--Inorganic and organic carbon analyses of soil

Sample depth interval (meters)	Calcium carbonate equivalent	Total carbon	Inorganic carbon	Organic carbon	Organic matter content
	Percent by weight				
	<u>Site 3</u>				
0-0.15	0	1.12	0	1.12	1.94
0.15-0.30	0	1.25	0	1.26	2.17
0.30-0.45	0	.93	0	.94	1.62
0.45-0.60	0	.59	0	.59	1.02
0.60-0.75	0	.36	0	.36	.63
0.75-0.90	0	.16	0	.16	.28
0.90-1.20	0	.18	0	.18	.32
1.20-1.50	0	.12	0	.12	.21
1.50-1.80	0	.10	0	.10	.18
1.80-2.10	0	.04	0	.04	.07
2.10-2.40	0	.09	0	.09	.15

Table 26.--Inorganic and organic carbon analyses of soil--Continued

Sample depth interval (meters)	Calcium carbonate equivalent	Total carbon	Inorganic carbon	Organic carbon	Organic matter content
	Percent by weight				
	<u>Site 6</u>				
0-0.15	0	1.03	0	1.03	1.78
0.15-0.30	0	1.05	0	1.05	1.82
0.30-0.45	0	.88	0	.88	1.52
0.45-0.60	0	.65	0	.66	1.13
0.60-0.75	0	.86	0	.86	1.48
0.75-0.90	0	.26	0	.27	.46
0.90-1.20	0	.15	0	.16	.27
1.20-1.50	0	.13	0	.13	.23
1.50-1.80	0	.09	0	.09	.15
1.80-2.10	0	.08	0	.09	.15
2.10-2.40	0	.41	0	.41	.71

Table 26.--Inorganic and organic carbon analyses of soil--Continued

Sample depth interval (meters)	Calcium carbonate equivalent	Total carbon	Inorganic carbon	Organic carbon	Organic matter content
	Percent by weight				
	<u>Site 9</u>				
0-0.15	0	1.12	0	1.12	1.93
0.15-0.30	0	.92	0	.93	1.60
0.30-0.45	0	.86	0	.87	1.49
0.45-0.60	0	.63	0	.63	1.09
0.60-0.75	0	.44	0	.45	.77
0.75-0.90	0	.19	0	.19	.33
0.90-1.20	0	.13	0	.13	.23
1.20-1.50	0	.26	0	.26	.45
1.50-1.80	3.0	.45	.3	.09	.16
1.80-2.10	3.0	.72	.3	.36	.62
2.10-2.40	3.1	.59	.3	.22	.38

Table 27.--Saturation extract soluble ion analyses of soil

[μ S/cm, microsiemens per centimeter at 25 °Celsius; meq/L, milliequivalent per liter; mg/L, milligram per liter]

Chemical characteristic or constituent	Sample depth interval (meters)											
	0.00 to 0.15	0.15 to 0.30	0.30 to 0.45	0.45 to 0.60	0.60 to 0.75	0.75 to 0.90	0.90 to 1.20	1.20 to 1.50	1.50 to 1.80	1.80 to 2.10	2.10 to 2.40	
Site 3												
pH (units)	6.3	4.9	5.8	6.0	6.2	6.9	6.8	6.7	7.5	6.7	7.5	
Electrical conductivity (μ S/cm)	2,180	1,296	648	566	448	92	116	123	189	211	454	
Carbonate (meq/L as CO ₃)	0	0	0	0	0	0	0	0	0	0	0	
Bicarbonate (meq/L as HCO ₃)	1.36	.48	.88	.80	.60	.40	.28	.22	.82	.16	1.76	
Chloride, dissolved (meq/L as Cl)	.25	.20	.10	.10	.08	.04	.12	.10	.15	.20	.63	
Sulfate, dissolved (meq/L as SO ₄)	20.20	15.06	7.42	5.72	4.31	.88	1.04	.86	1.09	2.10	2.45	
Calcium, dissolved (meq/L as Ca)	10.62	9.75	5.76	4.53	3.00	.62	.62	.66	1.03	.95	2.59	
Magnesium, dissolved (meq/L as Mg)	5.99	4.40	2.34	1.80	1.62	.65	.77	.45	.95	1.43	2.03	
Sodium, dissolved (meq/L as Na)	.27	.59	.06	.08	.09	0	0	0	.03	.03	.13	

Table 27.--Saturation extract soluble ion analyses of soil--Continued

Chemical characteristic or constituent	Sample depth interval (meters)											
	0.00 to 0.15	0.15 to 0.30	0.30 to 0.45	0.45 to 0.60	0.60 to 0.75	0.75 to 0.90	0.90 to 1.20	1.20 to 1.50	1.50 to 1.80	1.80 to 2.10	2.10 to 2.40	
Site 3--Continued												
Potassium, dissolved (meq/L as K)	4.94	1.00	0.23	0.22	0.27	0.06	0.06	0.07	0.06	0.06	0.08	
Sodium-adsorption ratio (SAR)	.09	.22	.03	.04	.06	0	0	0	.03	0	.09	
Residual sodium carbonate	-15.2	-13.7	-7.2	-5.5	-4.0	-.9	-1.1	-.9	-1.2	-2.2	-2.9	
Carbonate (mg/L as CO ₃)	0	0	0	0	0	0	0	0	0	0	0	
Bicarbonate (mg/L as HCO ₃)	83	29	54	49	37	24	17	13	50	10	107	
Chloride, dissolved (mg/L as Cl)	9	7	4	4	3	1	4	4	5	7	22	
Sulfate, dissolved (mg/L as SO ₄)	970	723	356	275	207	43	50	41	52	101	117	
Calcium, dissolved (mg/L as Ca)	213	195	115	91	60	12	12	13	21	19	52	
Magnesium, dissolved (mg/L as Mg)	73	53	28	22	20	8	9	5	12	17	25	

Table 27.--Saturation extract soluble ion analyses of soil--Continued

Chemical characteristic or constituent	Sample depth interval (meters)											
	0.00 to 0.15	0.15 to 0.30	0.30 to 0.45	0.45 to 0.60	0.60 to 0.75	0.75 to 0.90	0.90 to 1.20	1.20 to 1.50	1.50 to 1.80	1.80 to 2.10	2.10 to 2.40	
Site 3--Continued												
Sodium, dissolved (mg/L as Na)	6	14	1	2	2	0	0	0	1	1	3	
Potassium, dissolved (mg/L as K)	193	39	9	9	11	2	2	3	2	2	3	
Dissolved solids (mg/L)	1,547	1,061	568	450	339	91	95	80	143	157	330	
Site 6												
pH (units)	5.5	5.9	6.3	6.4	6.5	7.0	7.1	6.8	7.0	7.6	7.8	
Electrical conductivity (μ S/cm)	1,273	636	589	552	589	128	104	94	86	130	271	
Carbonate (meq/L as CO ₃)	0	0	0	0	0	0	0	0	0	0	0	
Bicarbonate (meq/L as HCO ₃)	.92	.88	.96	1.00	1.20	.52	.48	.40	.48	.88	1.60	
Chloride, dissolved (meq/L as Cl)	.10	.10	.06	.09	.10	.04	.06	.04	.07	.10	.09	
Sulfate, dissolved (meq/L as SO ₄)	13.68	7.13	7.21	6.11	6.19	.69	.65	.61	.58	.59	1.63	

Table 27.--Saturation extract soluble ion analyses of soil--Continued

Chemical characteristic or constituent	Sample depth interval (meters)											
	0.00 to 0.15	0.15 to 0.30	0.30 to 0.45	0.45 to 0.60	0.60 to 0.75	0.75 to 0.90	0.90 to 1.20	1.20 to 1.50	1.50 to 1.80	1.80 to 2.10	2.10 to 2.40	
Site 6--Continued												
Calcium, dissolved (meq/L as Ca)	4.53	5.88	5.14	4.53	4.86	0.82	0.70	0.62	0.53	0.74	1.85	
Magnesium, dissolved (meq/L as Mg)	8.20	1.90	2.76	2.39	2.34	.36	.41	.37	.53	.72	1.31	
Sodium, dissolved (meq/L as Na)	.08	.14	.11	.08	.09	0	.03	.02	.03	.09	.15	
Potassium, dissolved (meq/L as K)	1.89	.18	.21	.20	.21	.06	.05	.04	.03	.02	.01	
Sodium-adsorption ratio (SAR)	.03	.07	.06	.04	.05	0	.04	.03	.04	.11	.12	
Residual sodium carbonate	1.8	6.9	6.9	5.9	-6.0	-.7	-.6	-.6	-.6	-.6	-1.6	
Carbonate (mg/L as CO ₃)	0	0	0	0	0	0	0	0	0	0	0	
Bicarbonate (mg/L as HCO ₃)	56	54	59	61	73	32	29	4	29	54	98	
Chloride, dissolved (mg/L as Cl)	4	4	2	3	4	1	2	1	2	4	3	

Table 27.--Saturation extract soluble ion analyses of soil--Continued

Chemical characteristic or constituent	Sample depth interval (meters)											
	0.00 to 0.15	0.15 to 0.30	0.30 to 0.45	0.45 to 0.60	0.60 to 0.75	0.75 to 0.90	0.90 to 1.20	1.20 to 1.50	1.50 to 1.80	1.80 to 2.10	2.10 to 2.40	
Site 6--Continued												
Sulfate, dissolved (mg/L as SO ₄)	657	342	346	293	298	33	31	29	28	28	78	
Calcium, dissolved (mg/L as Ca)	91	118	103	91	97	16	14	12	11	15	37	
Magnesium, dissolved (mg/L as Mg)	100	23	34	29	28	4	5	5	6	9	16	
Sodium, dissolved (mg/L as Na)	2	3	3	2	2	0	1	0	1	2	3	
Potassium, dissolved (mg/L as K)	74	7	8	8	8	2	2	2	1	1	0	
Dissolved solids (mg/L)	983	551	554	487	510	89	84	74	79	112	236	
Site 9												
pH (units)	5.8	5.8	6.3	6.8	6.8	7.3	7.2	7.7	7.8	7.9	7.8	
Electrical conductivity (µS/cm)	1,485	660	542	425	389	144	169	248	281	352	341	

Table 27.--Saturation extract soluble ion analyses of soil--Continued

Chemical characteristic or constituent	Sample depth interval (meters)											
	0.00 to 0.15	0.15 to 0.30	0.30 to 0.45	0.45 to 0.60	0.60 to 0.75	0.75 to 0.90	0.90 to 1.20	1.20 to 1.50	1.50 to 1.80	1.80 to 2.10	2.10 to 2.40	
Site 9--Continued												
Carbonate (meq/L as CO ₃)	0	0	0	0	0	0	0	0	0	0	0	
Bicarbonate (meq/L as HCO ₃)	1.04	0.80	0.96	1.00	1.04	0.80	0.70	2.16	2.12	2.30	1.88	
Chloride, dissolved (meq/L as Cl)	.11	.10	.05	.10	.07	.05	.05	.05	.05	.13	.17	
Sulfate, dissolved (meq/L as SO ₄)	15.06	7.52	6.02	4.29	3.88	.93	.75	2.15	1.22	1.37	1.70	
Calcium, dissolved (meq/L as Ca)	10.90	5.72	4.73	3.50	2.96	1.03	1.15	2.39	2.18	2.47	2.14	
Magnesium, dissolved (meq/L as Mg)	4.31	2.38	2.03	1.64	1.78	.67	.31	1.84	1.06	1.09	1.22	
Sodium, dissolved (meq/L as Na)	.16	.13	.15	.16	.15	.04	.02	.10	.14	.23	.37	
Potassium, dissolved (meq/L as K)	.83	.19	.12	.09	.10	.04	.02	.03	.01	.01	.02	
Sodium-adsorption ratio (SAR)	.06	.06	.08	.10	.10	.04	.02	.07	.11	.17	.29	

Table 27.--Saturation extract soluble ion analyses of soil--Continued

Chemical characteristic or constituent	Sample depth interval (meters)											
	0.00 to 0.15	0.15 to 0.30	0.30 to 0.45	0.45 to 0.60	0.60 to 0.75	0.75 to 0.90	0.90 to 1.20	1.20 to 1.50	1.50 to 1.80	1.80 to 2.10	2.10 to 2.40	
Site 9--Continued												
Residual sodium carbonate	-14.2	-7.3	-5.8	-4.1	-3.7	-0.9	-0.8	-2.1	-1.1	-1.3	-1.5	
Carbonate (mg/L as CO ₃)	0	0	0	0	0	0	0	0	0	0	0	
Bicarbonate (mg/L as HCO ₃)	63	49	59	61	63	49	43	132	129	140	115	
Chloride, dissolved (mg/L as Cl)	4	4	2	4	2	2	2	2	2	5	6	
Sulfate, dissolved (mg/L as SO ₄)	723	361	289	206	187	45	36	103	59	66	82	
Calcium, dissolved (mg/L as Ca)	219	115	95	70	59	21	23	48	44	49	43	
Magnesium, dissolved (mg/L as Mg)	52	29	25	20	22	8	4	22	13	13	15	
Sodium, dissolved (mg/L as Na)	4	3	3	4	3	1	0	2	3	5	9	
Potassium, dissolved (mg/L as K)	32	7	5	4	4	2	1	1	0	0	1	
Dissolved solids (mg/L)	1,098	568	477	368	341	127	109	311	250	279	269	