

HYDROLOGICAL AND METEOROLOGICAL DATA FOR AN UNSATURATED ZONE
STUDY NEAR THE RADIOACTIVE WASTE MANAGEMENT COMPLEX,
IDAHO NATIONAL ENGINEERING LABORATORY, IDAHO--1985-86

by John R. Pittman

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CONVERSION FACTORS AND ABBREVIATIONS

International system (SI) units of measure used in this report may be converted to inch-pound units by using the following factors:

<u>Multiply</u>	<u>by</u>	<u>To obtain</u>
millimeter (mm)	0.03937	inch
centimeter (cm)	0.3937	inch
gram per cubic centimeter (g/cm ³)	62.43	pound per cubic foot
kilometer (km)	0.6214	mile
meter (m)	3.281	foot
cubic meter (m ³)	35.32	cubic foot
square kilometer (km ²)	0.3861	square mile
kilometer per hour (km/hr)	0.6214	mile per hour
calories per centimeter squared (cal/cm ²)	0.155	calories per inch squared

For temperature, degrees Celsius (C°) may be converted to degrees Fahrenheit (°F) by using the formula °F = [(1.8)(°C)] + 32.

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

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ABSTRACT

The hydrologic properties of the unsaturated zone and amount of net recharge to the system must be determined to field-calibrate a mathematical model to predict the long-term migration of radionuclides in the unsaturated zone. This study is being conducted to provide that necessary data for a specific area. Radioactive waste has been buried at the RWMC (Radioactive Waste Management Complex) at the INEL (Idaho National Engineering Laboratory) since 1952. In 1985, the U.S. Geological Survey and EG&G Idaho, Inc., in cooperation with the U.S. Department of Energy, began a study of the geohydrology of the RWMC to provide a basis for estimating the extent of and the potential for migration of radionuclides in the unsaturated zone beneath the waste burial trenches and pits.

Two test trenches were installed in the surficial sediment adjacent to the RWMC burial ground to collect hydrologic data from undisturbed and disturbed soil. Hydrologic data collected during 1985 and 1986 included measurements, taken every 12 hours, of soil temperature and soil-water potential from 30 sensors placed at selected depths to about 6 meters using thermocouple psychrometers; and soil-moisture content measurements collected weekly in 9 neutron-probe access holes with a neutron moisture depth gage. Meteorological data averaged every 6 hours included wind speed, wind direction, relative humidity, air temperature; solar radiation and precipitation were totaled over the 6-hour period.

INTRODUCTION

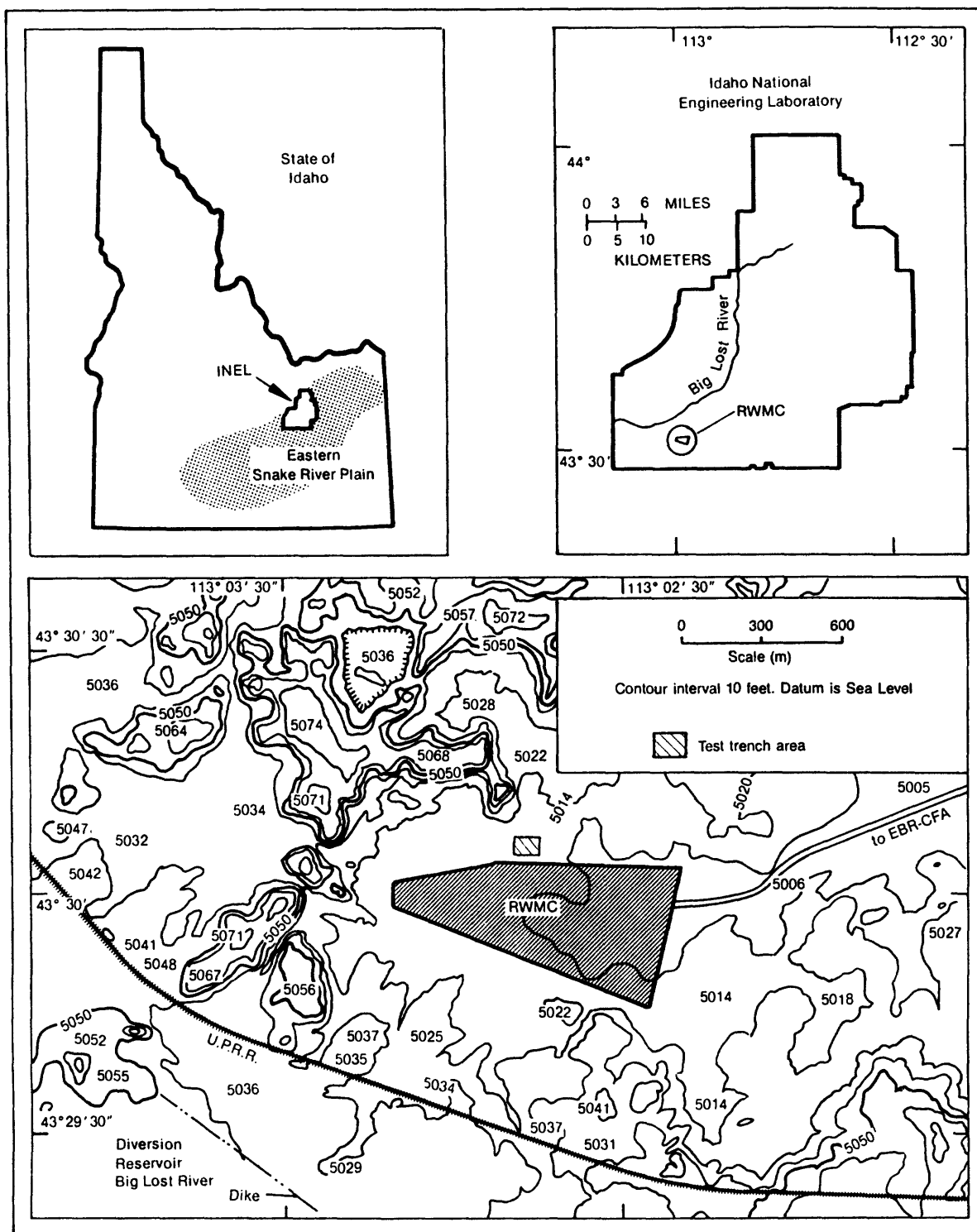
The RWMC (Radioactive Waste Management Complex) occupies 144 acres of the INEL (Idaho National Engineering Laboratory) in southeastern Idaho

(fig. 1). The RWMC is managed by the U.S. Department of Energy and operated by EG&G Idaho, Inc., a Department of Energy contractor at the INEL. Radioactive waste has been buried at the RWMC since 1952. From 1952 to 1970, low-level radioactive and transuranic waste were buried in pits and trenches excavated into a veneer of surficial sediment. The sediment is underlain by a thick sequence of basaltic lava intercalated with sedimentary deposits. Since 1970, low-level radioactive waste has been buried and the transuranic waste has been stored on above-ground asphalt pads in retrievable containers. From 1952 to 1986, about 180,000 m³ of low-level and transuranic radioactive waste containing about 9.5 million curies of radioactivity were buried at the RWMC. An estimated 335,000 liters of organic waste were also buried before 1970 (D.E. Kudera, EG&G Idaho, Inc., written commun., 1987).

Radionuclides have been detected in core and drill cuttings from several boreholes drilled into the surficial sediment and underlying basalt at the RWMC. Americium-241, plutonium-238, and plutonium-239, -240 (undivided) were detected in core samples from the 34 m deep sedimentary deposit. Because of the potential for the migration of radionuclides from the RWMC to the Snake River Plain aquifer about 177 m below land surface, a comprehensive study to determine extent of and potential for migration was undertaken by the U.S. Geological Survey and EG&G Idaho, Inc., in cooperation with the U.S. Department of Energy. The objectives and methods to be used in the multiphased program are described in a two-volume planning document by EG&G Idaho, Inc., the U.S. Geological Survey, and U.S. Department of Energy (1983).

Purpose and Scope

The purpose of the unsaturated-zone study at the RWMC is to obtain a reliable estimate of the amount of water that infiltrates the surficial sediment and eventually recharges the aquifer. This study provides data to determine the potential for downward movement of water through the surficial sediment and waste by quantifying ET (evapotranspiration) rates, soil-moisture content and variability, soil-moisture flux, hydraulic



9-7577

Figure 1.--Location of the INEL and eastern Snake River Plain, and the relation of the test trench facility to the RWMC and the Big Lost River.

conductivities, soil-moisture velocities, and soil temperatures. The data will be used to aid in the calibration of a numerical model which will be used to predict the migration of radionuclides in the unsaturated zone. This report presents hydrological and meteorological data collected as part of the test trench study for 1985-86.

The study of the movement of water through the unsaturated surficial sediment is one of several investigations included in a comprehensive subsurface investigation program at the RWMC. The main factor that influences the migration of radionuclides in the unsaturated zone is the amount of water that infiltrates the surficial sediment, moves down through the buried waste, and eventually recharges the aquifer. The amount of water that reaches the buried waste depends on the amount of rainfall, snowmelt, and ET rate.

Physical Setting

The INEL is located on the eastern Snake River Plain in southeastern Idaho (fig. 1), and occupies about 2,300 km² of semiarid sagebrush-covered terrain on the northwest side of the plain. The INEL has an average annual precipitation rate of 217 mm, with about 30 percent falling as snow.

The eastern Snake River Plain is a structural basin about 500 km long and 50 to 100 km wide. Rising from an altitude of about 700 m in the west to about 2,000 m in the east, the eastern Snake River Plain is bounded on the west, north, and east by mountain ranges and high plateaus. Many of the high peaks in these ranges exceed 3,500 m in altitude. Alluvial valleys draining the mountain ranges to the north and northwest drain onto the plain and the INEL. Flow in these streams is dependent on rainfall and snowmelt.

The eastern Snake River Plain is underlain by a sequence of basaltic lava flows interbedded with sedimentary deposits. Wells at the RWMC penetrate 200 m of the lava flows and sedimentary deposits. At well INEL-1, 16 km north northeast of the RWMC, the lava flows and sedimentary deposits have an aggregate thickness of 658 m. The lava flows and sedimentary

deposits combine to form the Snake River Plain aquifer--the most extensive and productive aquifer in Idaho.

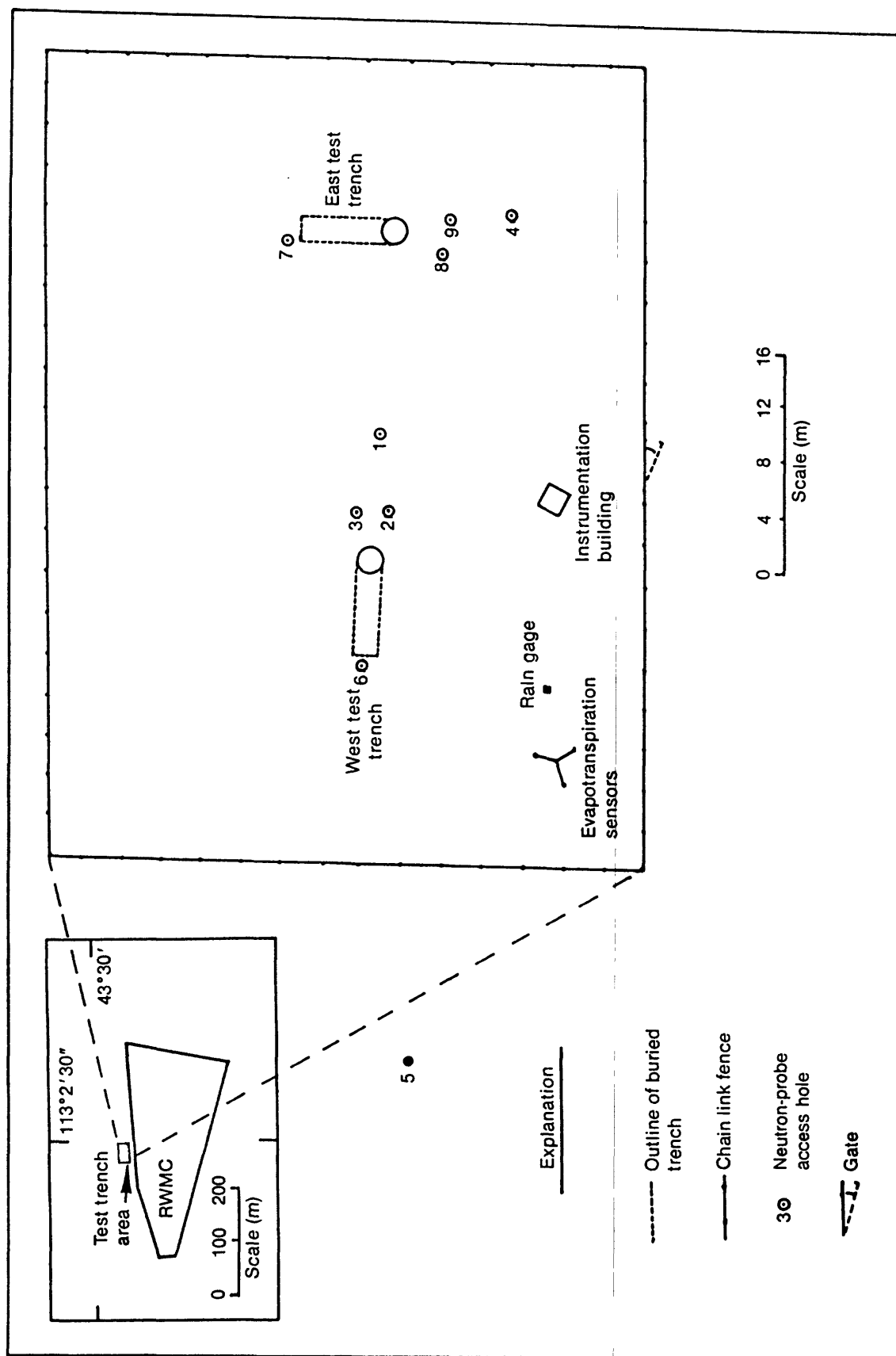
The RWMC is located in the southwestern part of the INEL in a shallow topographic depression (fig. 1). The surficial sediment consists of about 0.6 to 7.5 m of silt, sand, clay, and gravel. Sedimentary deposits occur at depths of about 9, 34, and 73 m below land surface. The 73-m deposit underlies all of the RWMC and may underlie a large part of the INEL. The 9- and 34-m deposits are discontinuous at the RWMC; however the 34-m deposit underlies a large part of the RWMC.

INSTALLATION OF THE TEST TRENCHES

Two test trenches (designated as the east and west test trenches) were installed in the surficial sediment near the northern boundary of the RWMC (fig. 2). A 44- by 33-m area was fenced around the test trenches to preserve natural vegetation and to prevent vehicular traffic. The conceptual design for these test trenches, described by Foster and Erickson (1980), Nichols (1982), Cahill (1982), and Lewis (1984), permits the placement of retrievable instrumentation in the unsaturated zone.

Each test trench was constructed by augering a hole to accommodate a vertical section of corrugated metal culvert 1.8 m in diameter and 4.3 m in length (fig. 3). A trench was then excavated adjacent to the vertical culvert to permit the installation of a horizontal section of corrugated metal culvert 1.8-m in diameter and 6.1-m in length. The top of the horizontal culvert is 1.3 m below land surface. The horizontal culvert was welded to the vertical culvert and the assembly was lowered into the excavated holes. The annular space between the culvert assemblies and the undisturbed soil was backfilled with a mixture of very coarse to very fine sand containing 12 to 15 percent clay. Soil excavated from the holes was placed over the horizontal culvert and compacted.

Two hinged work platforms were installed in the vertical culverts. Access to these platforms and the horizontal culvert is by a ladder



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Figure 2.--Location of the test trenches near the RWMC.

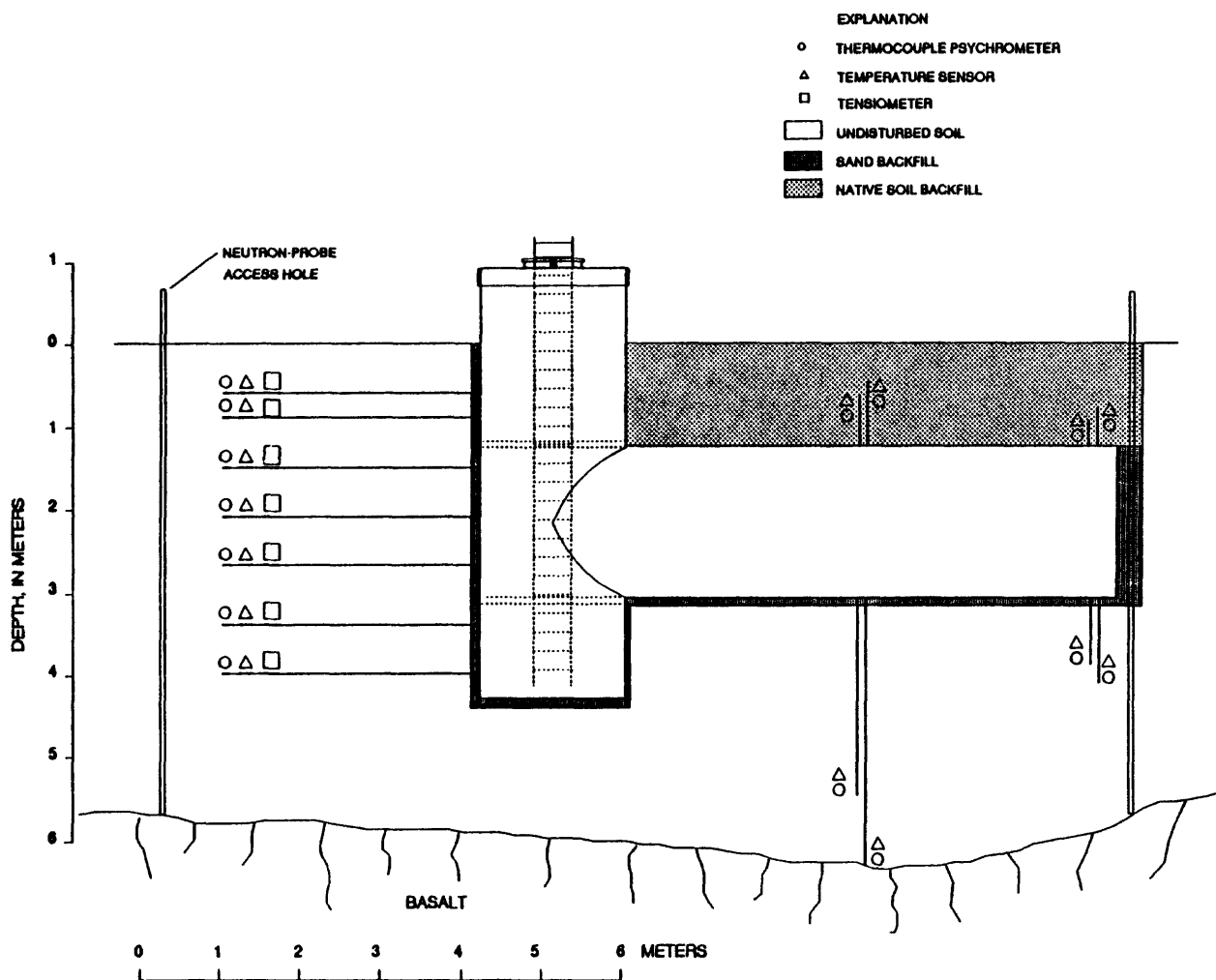


Figure 3.--Cross section of the west test trench.

extending the height of the vertical culvert (fig. 3). When workers are in the culvert, ventilation is supplied by a 10-cm diameter duct that is open at the base of the vertical culvert and at the far end of the horizontal culvert. The duct is connected to a portable fan that is located above ground and outside the culverts.

INSTRUMENTATION OF THE TEST TRENCHES

The test trenches are modeled after those described by Morgan and Fischer (1984). They allow the installation of retrievable instrumentation that is placed horizontally from the vertical culverts into undisturbed soil and vertically from the horizontal culverts into undisturbed and disturbed soil. By installing the instrumentation horizontally from the vertical culvert through augered access holes, disturbance of the vertical soil column was minimized.

Thermocouple Psychrometers

Holes 7.6 cm in diameter were augered in undisturbed soils 3.2 m horizontally from access ports in the vertical culvert, and at specified depths downward and upward from the horizontal culvert. PVC (polyvinyl-chloride) casing 2.5 cm in diameter was placed in the auger holes using spacers to center the casing. A 2.5-cm diameter PVC centering plug was glued into the end of the PVC casing prior to its installation. The annular space between the casing and the wall of the auger hole was then sealed with polyurethane foam. The foam was injected into the annular space through a small-diameter tube that was slowly withdrawn as the injected foam expanded. An example of a completed access hole is shown in figure 4.

After the 2.5-cm diameter PVC casing and centering plug were installed and sealed with polyurethane foam, a 10-mm diameter hole was drilled 15 cm beyond the end of the cased access hole. The psychrometer was mounted at the end of 9.5-mm diameter PVC tubing and the psychrometer base was sealed to the end of the tubing to insure a tight seal. A PVC sealing plug was

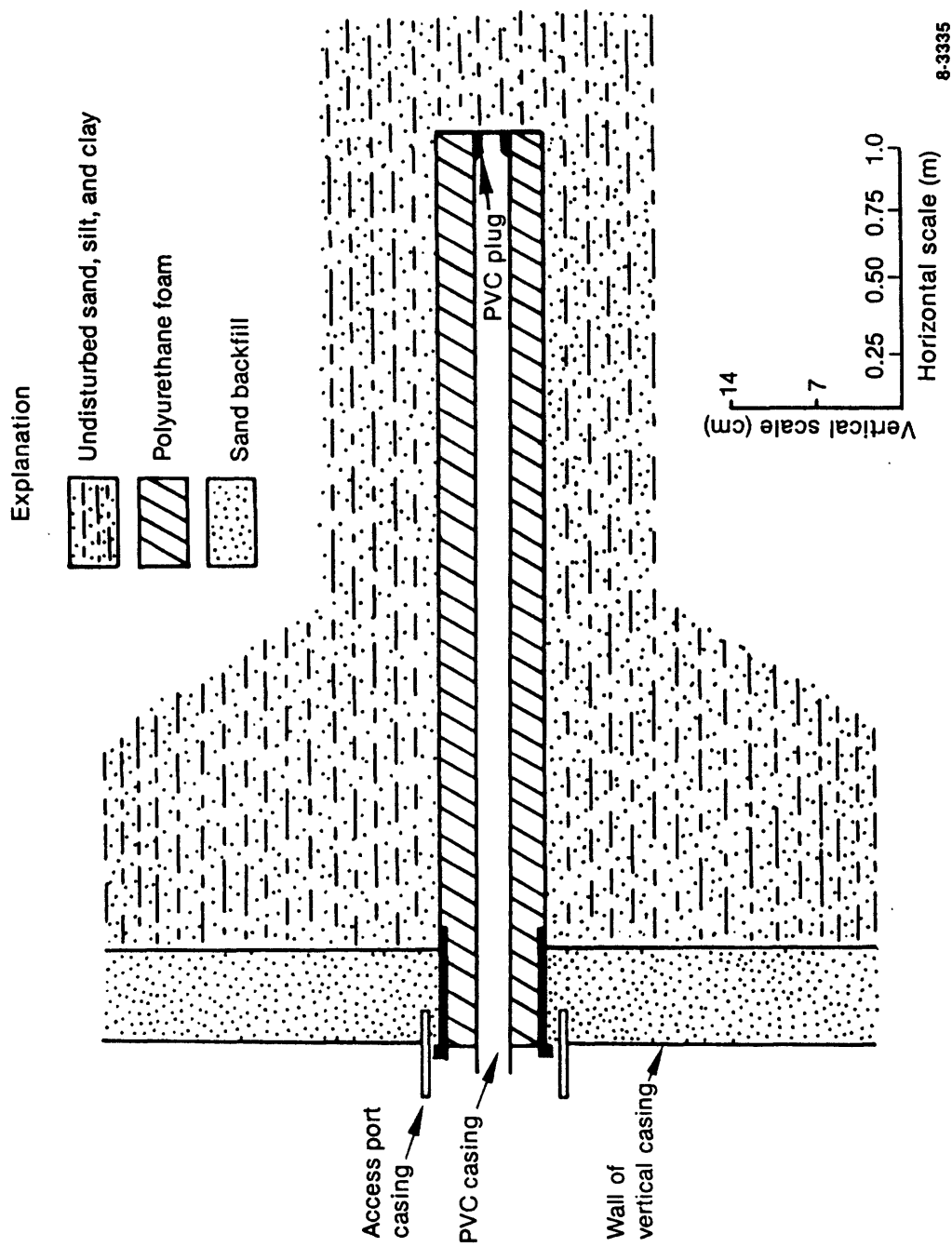


Figure 4.--Cross-sectional view of a completed access hole.

glued onto the tubing about 16 to 20 cm from the psychrometer tip and a rubber "O" ring was placed on the plug. The psychrometer assembly was then installed in the drilled hole with the "O" ring providing an airtight seal between the sealing plug and the centering plug (fig. 5). The seal was tested by pressurizing the casing and noting whether a pressure loss occurred.

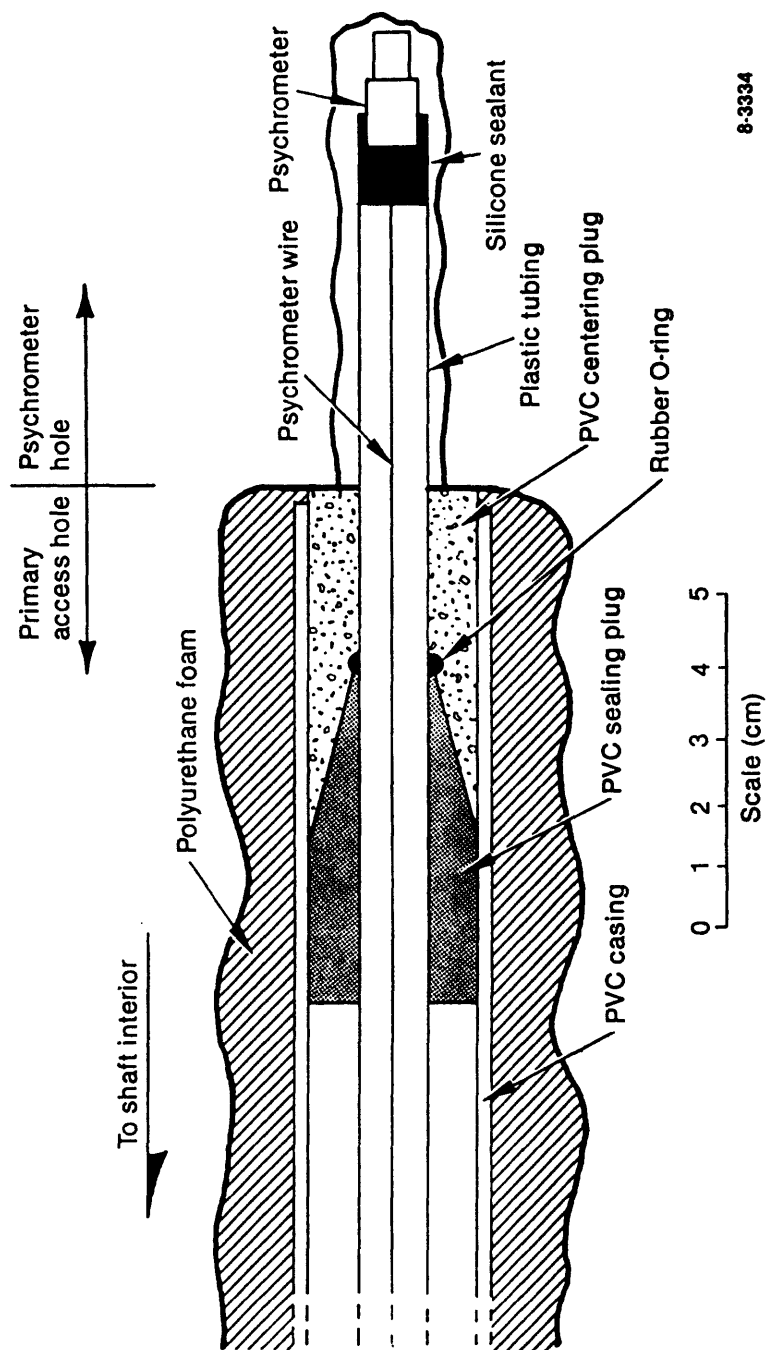
The theory of psychrometric measurement of soil-water potential has been discussed by Rawlins (1966, 1972) and by Van Haveren and Brown (1972). Thermocouple psychrometers installed at the test trenches were of the screen-caged, Spanner type and were calibrated prior to installation using methods described by Meyn and White (1972). Regression equations based on these calibrations were developed for each psychrometer and were used to convert the psychrometer output to soil-water potential. The average standard error of the soil-water potentials calculated using the regression equations was ± 2.3 bars.

Tensiometers

Tensiometers were installed in the west test trench (fig. 2) in the same manner as the psychrometers 3.2 m horizontally from the vertical culverts. When soil-water potentials were above the -1.0 bar limit of the thermocouple psychrometers (close to the 0.0 to -0.6 bar range of the tensiometers), attempts were made to take measurements. Soil conditions, however, were too dry for the tensiometers to work.

Neutron-Probe Access Holes

Nine neutron-probe access holes (fig. 2) were installed in the test trench area to collect spatially distributed soil-moisture profiles and to provide an independent method to check the psychrometer moisture data. Access holes (5 cm in diameter) were hand augered to the surficial sediment-basalt contact which ranged from 4.4 to 5.7 m below land surface. Core samples of the soil were collected at 30-cm depth intervals. Immediately



8-3334

Figure 5.--Schematic cross-sectional view of psychrometer installation.

after the augering was completed, the holes were cased with 5.0-cm diameter stainless steel pipes and neutron-probe readings were taken at depths where core samples were collected.

The neutron probe used to measure soil-moisture content contains a source of fast high-energy neutrons and a slow (thermal) neutron detector. The probe is lowered into a cased hole to a specified depth and readings are taken. Hydrogen present in the water in the soil slows the neutrons down for detection by the probe. The moisture data are displayed as raw hydrogen counts that can then be correlated with the water content of the cores (Campbell Pacific Nuclear, 1984, p. 1).

Relative changes in soil-moisture content with time were proportioned to the changes in the raw hydrogen count. Further, the raw counts were converted to volumetric water content using calibration equations that were developed. The soil cores taken when the access holes were augered were analyzed to determine the weight of the water in the cores, the dry weight of the soil cores, and the oven-dry bulk densities of the soil cores. Volumetric water contents were calculated for each core based on the formula:

$$\theta = \frac{W_w Y_d}{W_d Y_w} \times 100\%$$

where

θ = volumetric water content (%),
 W_w = weight of water (g),
 W_d = dry weight of soil (g),
 Y_d = oven-dry bulk density (g/cm³), and
 Y_w = water density (g/cm³).

Calibration equations based on linear regressions were developed using the calculated volumetric water content and the ratio of the raw count to the standard count (ratio count) performed in the probe's neutron source shield. A single calibration equation was developed for field data from the neutron probe. The standard error of the calculated volumetric water content was ± 2.8 percent.

Meteorological Station

The amount of precipitation that is lost to evaporation and transpiration needs to be determined to obtain an accurate estimate of the amount of water that infiltrates the surficial sediment and eventually recharges the aquifer. Calibrated equipment for use in determining ET rates based on the Idso equation was installed in June 1986. Equipment consisted of an anemometer, wind vane, air temperature and relative humidity sensor, heated rain gage, and incoming and reflected solar radiometers. All sensors were factory calibrated prior to installation. The Idso ET equation detailed in the original study plan (EG&G Idaho and others, 1983) proved not to be applicable in determining ET rates in a semiarid environment (Novak and Black, 1982). Additional sensors were ordered at the end of 1986 to provide the necessary data to calculate ET rates using other energy-balance methods (Ritchie, 1972). The sensors ordered included precision spectral pyrometers, used to measure global sun and sky radiation and reflected short-wave radiation (albedo); precision infrared radiometers, used to measure long-wave terrestrial radiation; an infrared thermometer, used to measure surface temperatures; and additional anemometers and temperature and relative humidity sensors.

HYDROLOGICAL AND METEOROLOGICAL DATA

Data collection began at the west test trench on November 9, 1985, at the east test trench on October 26, 1986, and at the meteorological station on June 18, 1986. Soil temperature at each thermocouple psychrometer was recorded hourly and was averaged over 12-hour periods. The temperature of the undisturbed soil was measured at selected depths ranging from 0.6 m below land surface to the sediment-basalt contact at 6.1 m. Temperatures ranged from 22.2 to -1.7 °C at 0.6 m below land surface, and from 10.1 to 7.7 °C at 6.1 m (fig. 6). The temperatures of the disturbed soils above the horizontal culverts were recorded at depths ranging from 0.5 to 0.9 m below land surface. Soil temperatures at the test trenches for 1985-86 are listed in tables 1, 2, 3, and 4 (all tables are located at the end of this report).

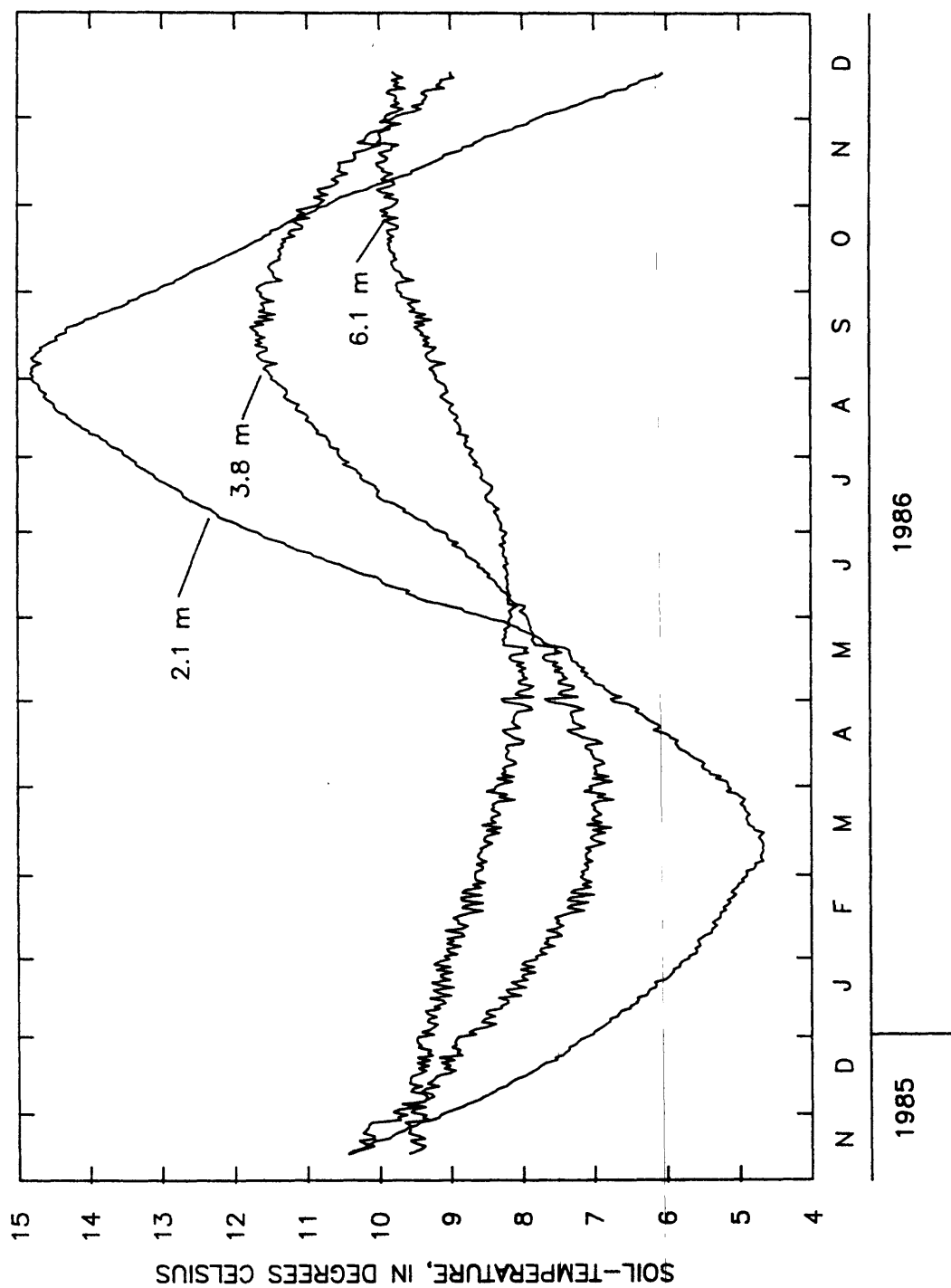


Figure 6.--Variation of soil temperature with depth and time at the west test trench.

Soil-water potential from each thermocouple psychrometer was recorded hourly and was averaged over 12-hour periods. Soil-water potentials ranged from less than -1.0 bar--psychrometer limit--to about -20 bars. The largest fluctuations in soil-water potentials occurred in the shallow, disturbed sediment overlying the horizontal culverts. Smaller fluctuations occurred in the undisturbed sediment (fig. 7). Soil-water potentials at the test trenches during 1985-86 are listed in tables 1-6.

Soil-moisture content data obtained with a neutron probe began April 17, 1985, and were collected on a weekly basis. Moisture profiles generally were driest in September and wettest in April after recharge from snowmelt or rainfall (figs. 8-13). Changes in moisture content were greatest at shallow depths and attenuated with depth. Little or no changes in the moisture profiles were observed at depths below 5 m. Soil-moisture content data for neutron-probe access holes 1-9 are shown in tables 7-15.

The relation between soil-water pressure (head) and water content is called the soil-moisture characteristic. The pressure-plate method (Hillel, 1971) was used to obtain the relations between water content and head on soil cores taken from the neutron-probe access holes. The soil samples in core tubes were saturated with water and placed on ceramic plates in a pressure chamber. A positive air pressure was applied to the soil samples within the chamber, causing water to flow from the sample through the ceramic plate. The air pressure corresponds to the negative pressure head retaining water in the sample (Hillel, 1971). Soil-moisture characteristic data were obtained from soil cores collected at neutron-probe access holes 1, 2, and 6. These data are shown in tables 16-18.

The average annual precipitation at a site 10 km from the RWMC was 217 mm from 1950 to 1969; annual precipitation ranged from 130 to 360 mm per year (Robertson and others, 1974). The annual precipitation at the RWMC for 1986 was 240 mm (fig. 14). Meteorological data for 1986 at the test trench are shown in table 19.

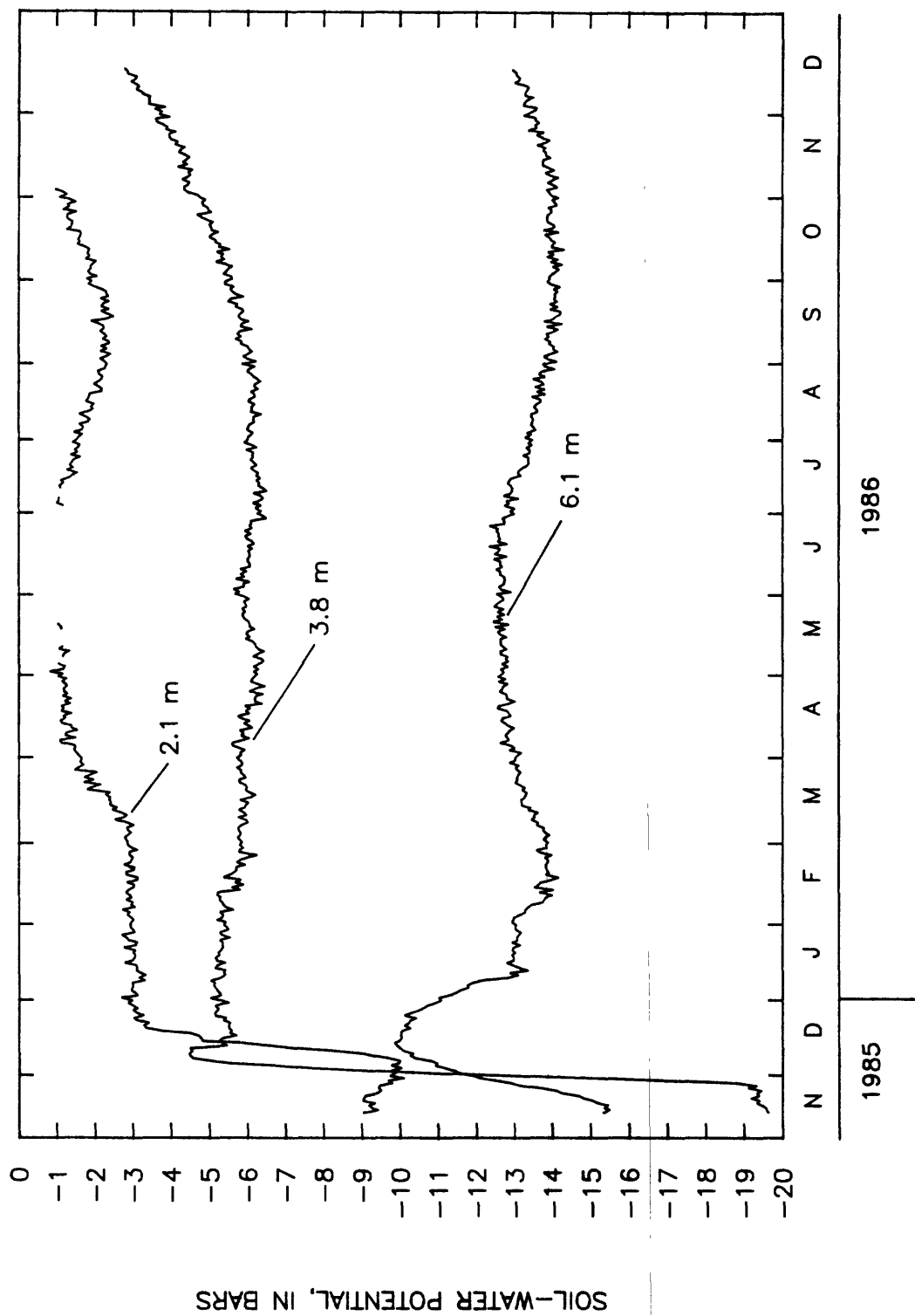


Figure 7.--Variation of soil-water potential with depth and time at the west test trench.

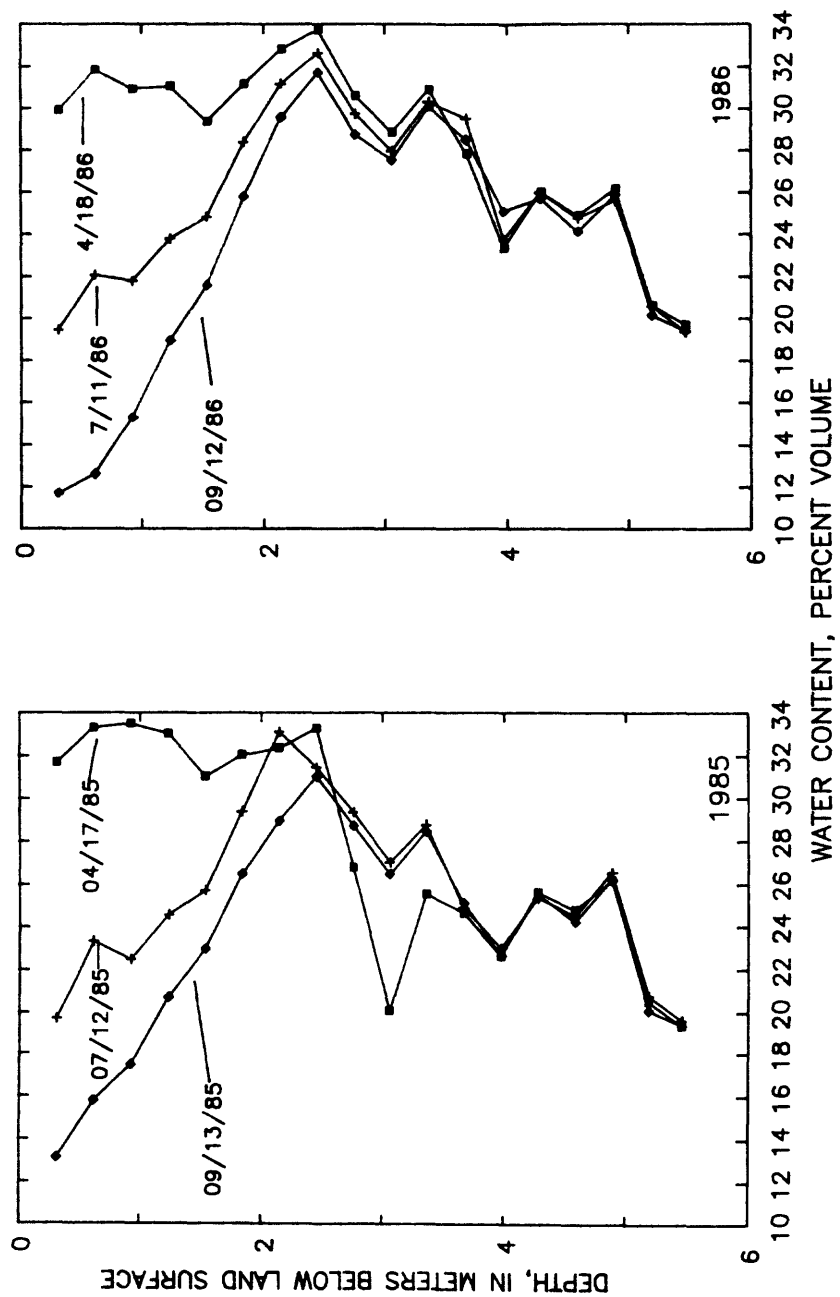


Figure 8.--Variation of soil-moisture content with depth and time at neutron-probe access hole 1.

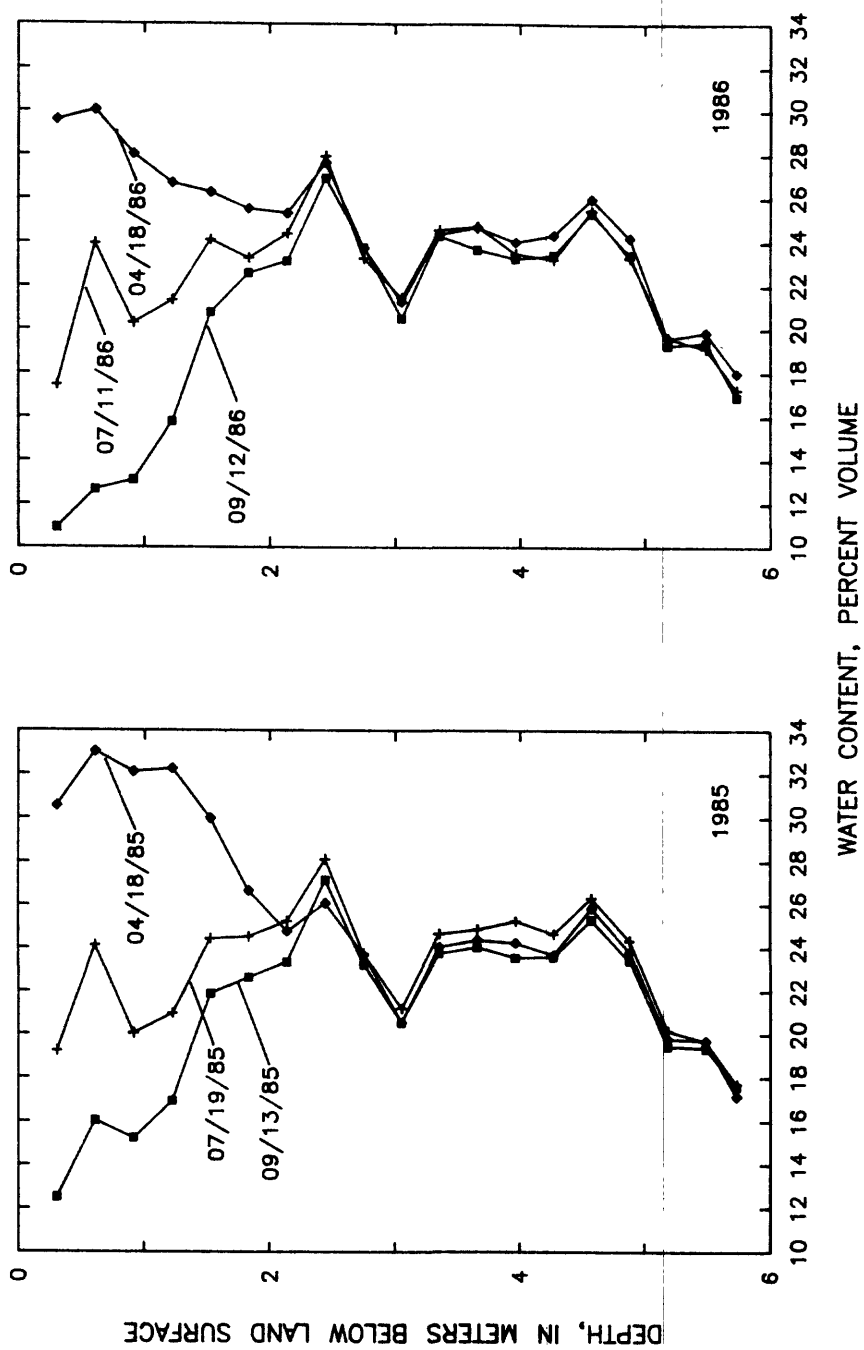


Figure 9.--Variation of soil-moisture content with depth and time at neutron-probe access hole 2.

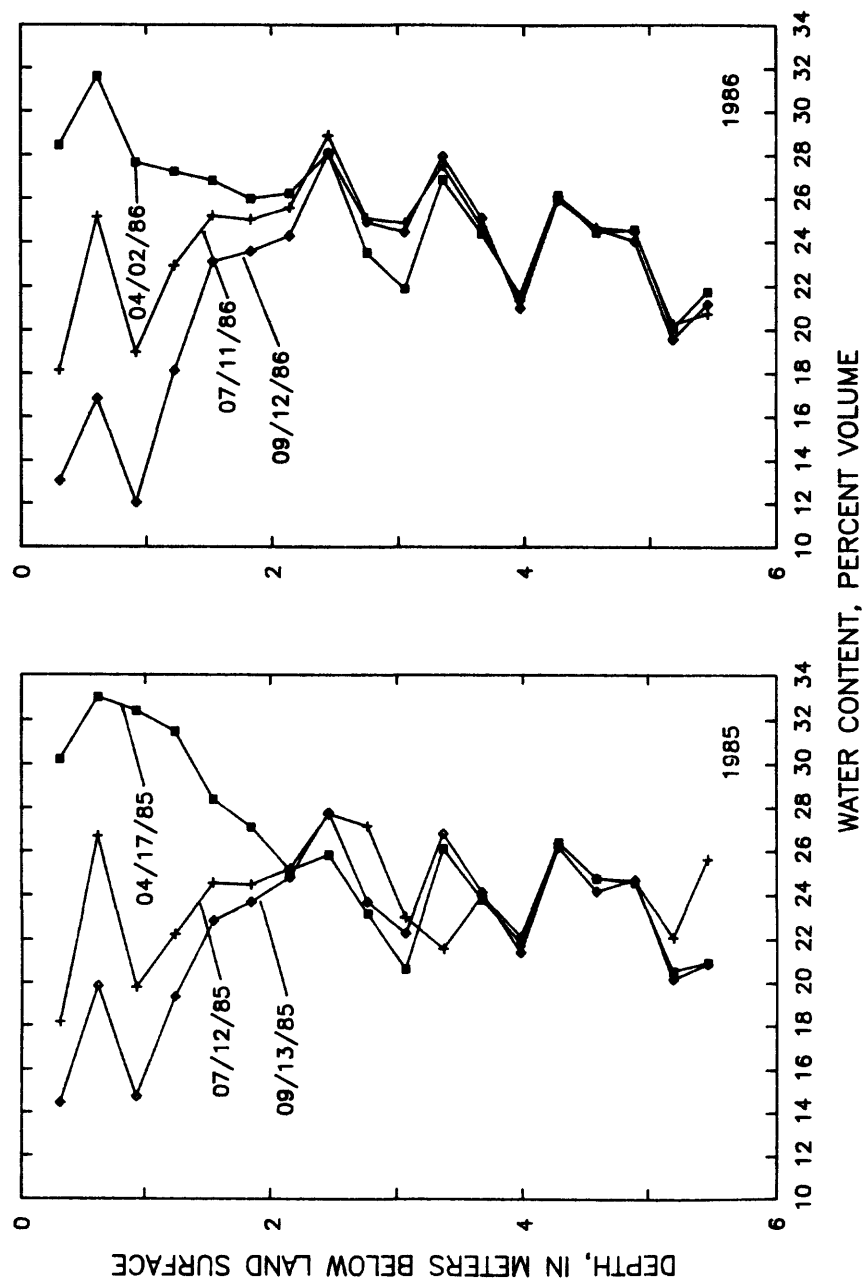


Figure 10.--Variation of soil-moisture content with depth and time at neutron-probe access hole 3.

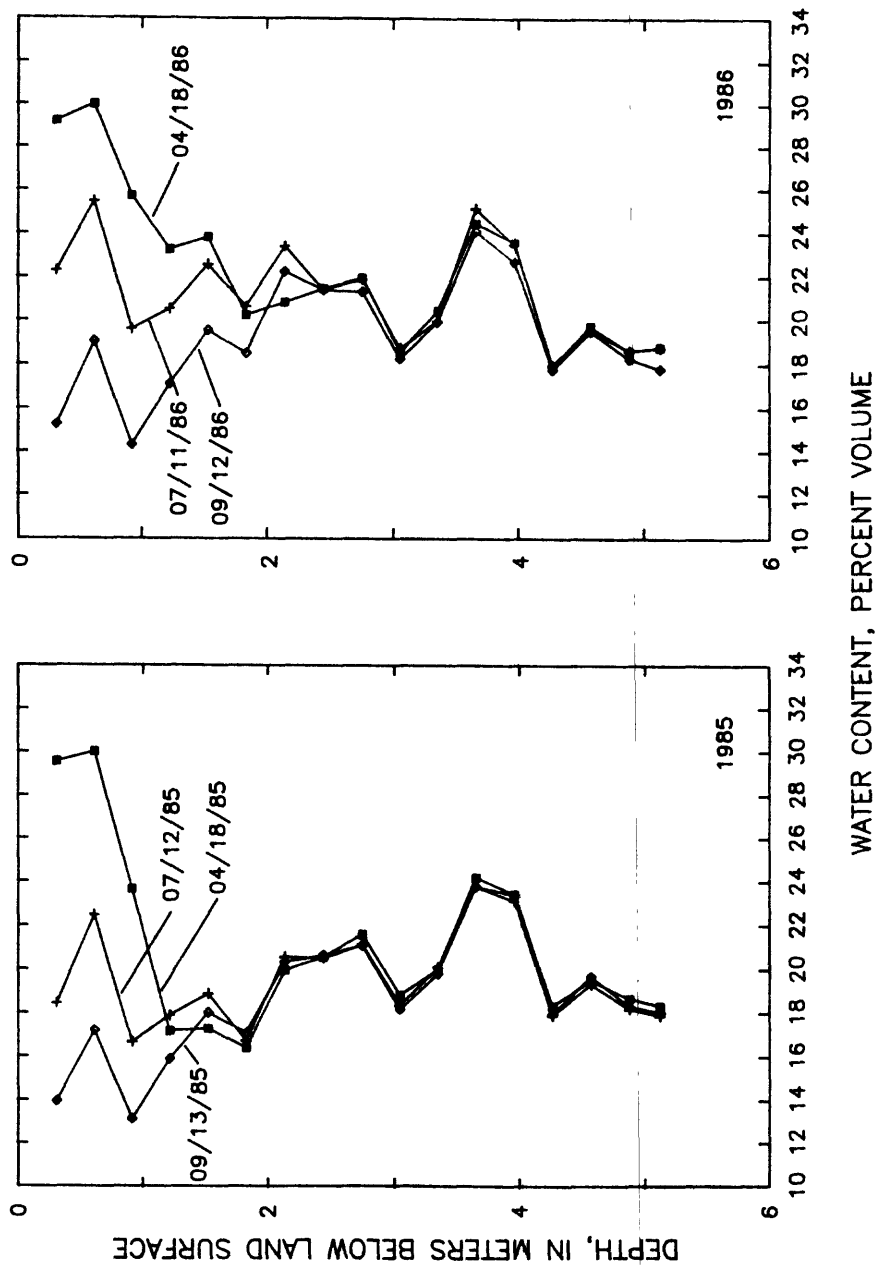


Figure 11.--Variation of soil-moisture content with depth and time at neutron-probe access hole 4.

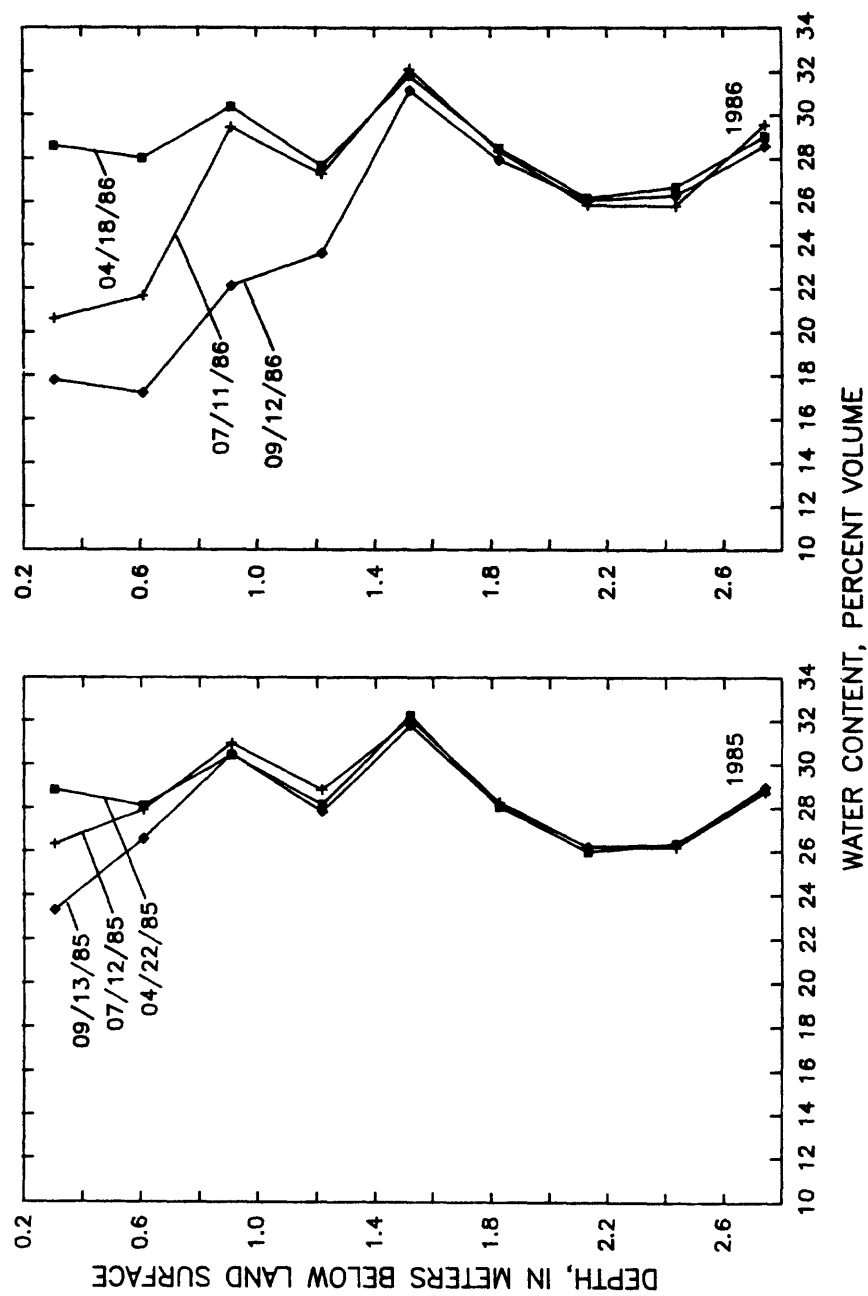


Figure 12.--Variation of soil-moisture content with depth and time at neutron-probe access hole 5.

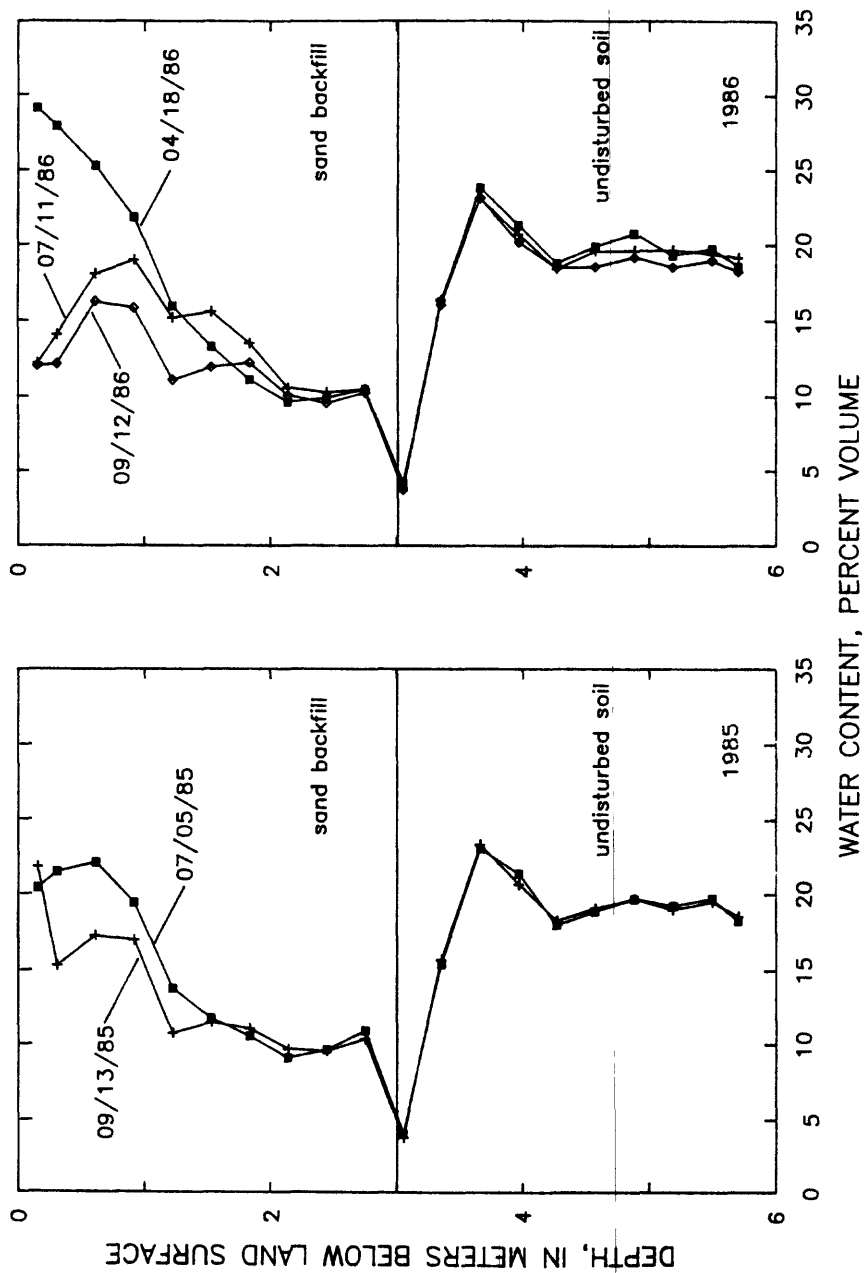


Figure 13.--Variation of soil-moisture content with depth and time at neutron-probe access hole 6.

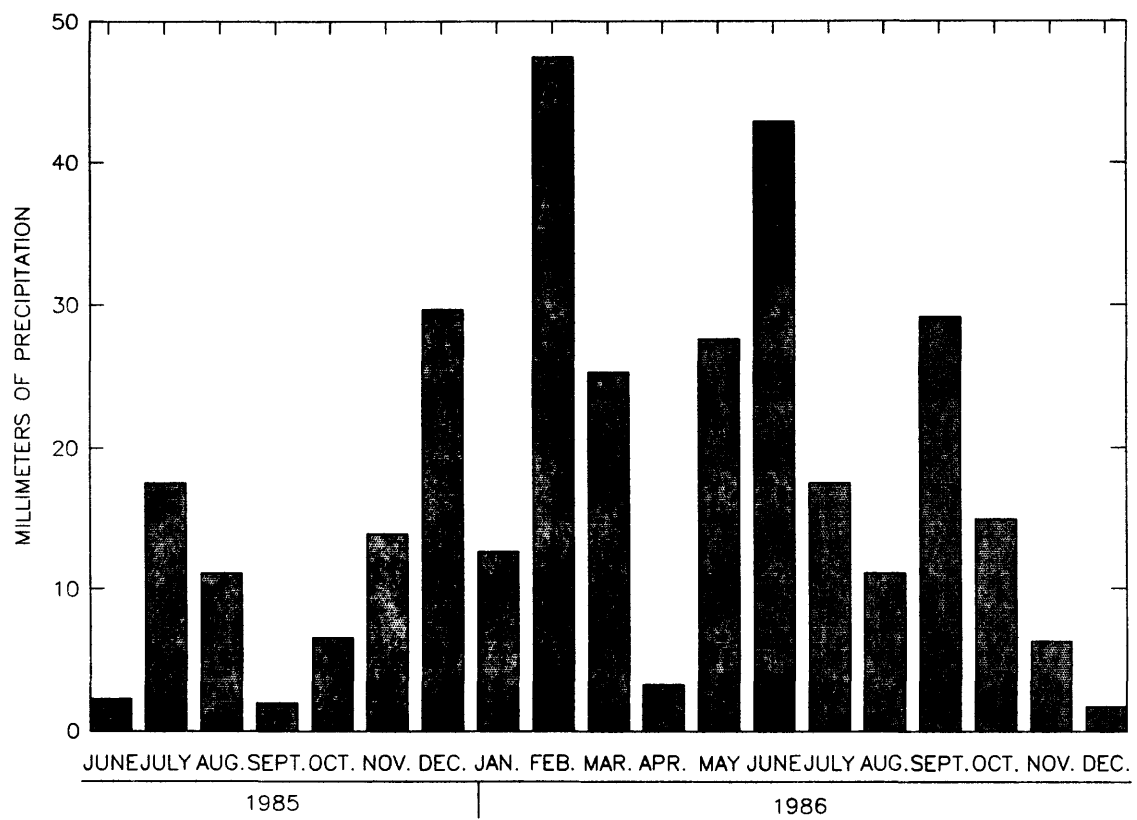


Figure 14.--Precipitation at the test trenches, June 1985 - December 1986.

SUMMARY

The RWMC includes 144 acres of the INEL in southeastern Idaho. Radioactive waste has been buried at the RWMC since 1952. Radionuclides have been detected in soil and rock samples from several boreholes drilled into the surficial sediment and underlying rock units at the RWMC. In 1985, because of the potential for and migration of the radionuclides from the RWMC to the Snake River Plain aquifer 177 m below land surface, a comprehensive study to determine potential for extent of migration was undertaken by the U.S. Geological Survey and EG&G Idaho, Inc., in cooperation with the U.S. Department of Energy.

This study is being conducted to obtain a reliable estimate of the amount of water that infiltrates the surficial sediment and eventually recharges the aquifer by quantifying ET rates, soil-moisture content and variability, soil-moisture flux, hydraulic conductivities, soil-moisture velocities, and soil temperatures. The data will be used to calibrate a numerical model of the unsaturated zone to predict the migration of radionuclides in the subsurface.

Two test trenches were installed in the surficial sediment adjacent to the RWMC burial ground to collect hydrologic data from undisturbed and disturbed soil. During 1985 and 1986, soil temperature and soil-water potential measurements were taken every 12 hours from 30 sensors placed at selected depths from 0.5 to 6.1 m. Weekly soil-moisture content measurements were collected in 9 neutron-probe access holes using a neutron moisture depth gage. Wind speed, wind direction, relative humidity, and air temperature data were averaged every 6 hours. Solar radiation and precipitation were totaled over the 6-hour intervals.

Soil temperatures in undisturbed soils at the test trench ranged from -1.7 to 22.2 °C. Soil-water potentials in undisturbed soils at the test trench ranged from the sensor detection limit of -1.0 bar to about -20.0 bars. Little or no changes in the soil-moisture profiles were observed at depths below 5 m. The annual precipitation at the RWMC was 240 mm in 1986.

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Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench

Sensor identifier Depth below land surface (meters)	tcp#1 0.6			tcp#2 0.9			tcp#3 1.5			tcp#4 2.1		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
11/09/85	0	6.7	-7.2	7.1	-1.6	9.3	10.4	-2.0	10.4	-9.0		
11/09/85	1200	6.6	-6.2	6.9	-1.6	9.2	10.3	-1.9	10.3	-9.1		
11/10/85	0	6.4	-6.1	6.9	-1.6	9.2	10.4	-1.8	10.4	-9.4		
11/10/85	1200	6.1	-5.9	6.6	-1.6	9.1	10.3	-1.5	10.3	-9.1		
11/11/85	0	5.9	-5.9	6.4	-1.7	9.0	10.3	-1.4	10.3	-9.3		
11/11/85	1200	5.6	-5.7	6.2	-1.4	9.0	10.2	-1.4	10.2	-9.2		
11/12/85	0	5.5	-5.6	6.0	-1.5	8.9	10.2	-1.2	10.2	-9.2		
11/12/85	1200	5.3	-5.6	5.8	-1.7	8.8	10.1	-1.1	10.1	-9.2		
11/13/85	0	5.3	-6.1	5.7	-1.5	8.8	10.1	-1.3	10.1	-9.3		
11/13/85	1200	5.1	-5.4	5.6	-1.5	8.7	10.0	-1.5	10.0	-9.0		
11/14/85	0	5.1	-5.7	5.5	-1.4	8.6	10.1	-1.1	10.1	-9.0		
11/14/85	1200	5.0	-5.1	5.4	-1.3	8.5	10.0	-1.0	10.0	-9.4		
11/15/85	0	4.9	-5.3	5.4	-1.4	8.4	9.9	-1.0	9.9	-9.0		
11/15/85	1200	4.9	-5.4	5.3	-1.2	8.4	9.9	-1.0	9.9	-8.9		
11/16/85	0	4.8	-5.4	5.3	-1.2	8.3	9.8	-1.0	9.8	-9.1		
11/16/85	1200	4.8	-5.5	5.3	-1.3	8.3	9.8	-1.0	9.8	-9.2		
11/17/85	0	4.8	-5.5	5.2	-1.2	8.2	9.8	-1.0	9.8	-9.4		
11/17/85	1200	4.7	-5.3	5.1	-1.2	8.1	9.7	-1.0	9.7	-9.0		
11/18/85	0	4.7	-5.1	5.1	-1.1	8.0	9.7	-1.0	9.7	-9.5		
11/18/85	1200	4.6	-5.3	5.1	-1.1	8.0	9.6	-1.0	9.6	-9.4		
11/19/85	0	4.7	-5.2	5.0	-1.2	8.0	9.6	-1.0	9.6	-9.4		
11/19/85	1200	4.5	-5.1	4.9	-1.0	7.9	9.5	-1.0	9.5	-9.6		
11/20/85	0	4.5	-5.0	4.9	-1.0	7.8	9.5	-1.0	9.5	-9.5		
11/20/85	1200	4.4	-4.8	4.8	-1.1	7.8	9.4	-1.0	9.4	-9.6		
11/21/85	0	4.4	-5.0	4.8	-1.1	7.8	9.4	-1.0	9.4	-9.8		
11/21/85	1200	4.3	-4.8	4.7	-1.1	7.7	9.3	-1.0	9.3	-9.7		
11/22/85	0	4.3	-4.8	4.7	-1.2	7.6	9.3	-1.0	9.3	-9.7		
11/22/85	1200	4.3	-4.9	4.6	-1.0	7.6	9.3	-1.0	9.3	-9.6		
11/23/85	0	4.3	-5.3	4.6	-1.0	7.5	9.2	-1.0	9.2	-10.1		
11/23/85	1200	4.1	-4.8	4.6	-1.0	7.5	9.1	-1.0	9.1	-10.0		
11/24/85	0	4.2	-5.1	4.6	-1.0	7.5	9.1	-1.0	9.1	-9.7		
11/24/85	1200	4.0	-5.0	4.4	-1.0	7.3	9.0	-1.0	9.0	-10.3		
11/25/85	0	4.1	-4.9	4.5	-1.0	7.4	9.1	-1.0	9.1	-9.9		
11/25/85	1200	4.0	-5.0	4.4	-1.0	7.3	9.0	-1.0	9.0	-9.8		
11/26/85	0	4.0	-4.8	4.3	-1.0	7.2	9.0	-1.0	9.0	-9.8		
11/26/85	1200	3.9	-4.7	4.3	-1.0	7.2	8.9	-1.0	8.9	-10.2		

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier															
Depth below land surface (meters)															
tcp#1				tcp#2				tcp#3				tcp#4			
0.6				0.9				1.5				2.1			
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)				
11/27/85	0	3.9	-4.4	4.2	>-1.0	7.1	>-1.0	8.8	>-1.0	8.8	-10.0				
11/27/85	1200	3.8	-4.5	4.1	>-1.0	7.0	>-1.0	8.8	>-1.0	8.8	-10.1				
11/28/85	0	3.8	-4.6	4.2	-1.0	7.0	-1.0	8.8	>-1.0	8.8	-9.8				
11/28/85	1200	3.8	-4.5	4.2	>-1.0	7.1	>-1.0	8.8	>-1.0	8.8	-10.1				
11/29/85	0	3.7	-4.4	4.1	>-1.0	7.0	>-1.0	8.7	>-1.0	8.7	-10.0				
11/29/85	1200	3.7	-4.4	4.1	>-1.0	6.9	>-1.0	8.7	>-1.0	8.7	-9.8				
11/30/85	0	3.7	-4.2	4.1	>-1.0	6.8	>-1.0	8.6	>-1.0	8.6	-10.0				
11/30/85	1200	3.7	-4.3	4.1	>-1.0	6.9	>-1.0	8.6	>-1.0	8.6	-9.7				
12/01/85	0	3.6	-4.5	4.0	>-1.0	6.8	-1.0	8.5	-1.0	8.5	-9.7				
12/01/85	1200	3.7	-4.6	4.0	>-1.0	6.8	>-1.0	8.5	>-1.0	8.5	-9.0				
12/02/85	0	3.6	-4.5	4.0	>-1.0	6.7	-1.0	8.4	-1.0	8.4	-9.3				
12/02/85	1200	3.6	-4.4	3.9	>-1.0	6.7	>-1.0	8.4	>-1.0	8.4	-8.8				
12/03/85	0	3.6	-4.3	3.9	>-1.0	6.7	>-1.0	8.4	>-1.0	8.4	-9.0				
12/03/85	1200	3.5	-4.5	3.9	>-1.0	6.6	>-1.0	8.3	>-1.0	8.3	-8.9				
12/04/85	0	3.6	-4.5	3.9	>-1.0	6.6	-1.0	8.3	-1.0	8.3	-8.3				
12/04/85	1200	3.4	-4.3	3.8	>-1.0	6.5	>-1.0	8.3	>-1.0	8.3	-8.1				
12/05/85	0	3.5	-4.2	3.8	>-1.0	6.5	>-1.0	8.2	>-1.0	8.2	-7.2				
12/05/85	1200	3.4	-4.3	3.8	>-1.0	6.5	-1.0	8.2	-1.0	8.2	-7.2				
12/06/85	0	3.5	-4.6	3.8	>-1.0	6.4	>-1.0	8.2	>-1.0	8.2	-6.6				
12/06/85	1200	3.4	-4.2	3.7	>-1.0	6.4	>-1.0	8.1	>-1.0	8.1	-6.2				
12/07/85	0	3.4	-4.5	3.8	>-1.0	6.4	>-1.0	8.1	>-1.0	8.1	-5.9				
12/07/85	1200	3.3	-4.6	3.7	>-1.0	6.4	>-1.0	8.1	>-1.0	8.1	-5.2				
12/08/85	0	3.3	-4.7	3.7	>-1.0	6.3	>-1.0	8.1	>-1.0	8.1	-4.8				
12/08/85	1200	3.2	-4.8	3.6	>-1.0	6.2	-1.1	8.0	-1.1	8.0	-4.8				
12/09/85	0	3.3	-4.6	3.6	>-1.0	6.2	>-1.0	8.0	>-1.0	8.0	-4.8				
12/09/85	1200	3.4	-4.7	3.7	>-1.0	6.3	>-1.0	8.1	>-1.0	8.1	-4.6				
12/10/85	0	3.2	-4.6	3.6	>-1.0	6.2	-1.0	7.9	-1.0	7.9	-4.7				
12/10/85	1200	3.2	-4.8	3.5	>-1.0	6.1	>-1.0	7.9	>-1.0	7.9	-4.4				
12/11/85	0	3.2	-4.7	3.5	>-1.0	6.1	>-1.0	7.8	>-1.0	7.8	-4.5				
12/11/85	1200	3.1	-4.6	3.5	>-1.0	6.0	>-1.0	7.8	>-1.0	7.8	-3.6				
12/12/85	0	3.2	-5.3	3.5	>-1.0	6.1	>-1.0	7.8	>-1.0	7.8	-3.7				
12/12/85	1200	3.1	-4.8	3.5	>-1.0	6.0	>-1.0	7.8	>-1.0	7.8	-3.4				
12/13/85	0	3.2	-4.7	3.5	>-1.0	6.0	>-1.0	7.7	>-1.0	7.7	-3.3				
12/13/85	1200	3.1	-4.8	3.4	>-1.0	6.0	>-1.0	7.7	>-1.0	7.7	-3.2				
12/14/85	0	3.1	-4.8	3.4	>-1.0	5.9	>-1.0	7.7	>-1.0	7.7	-3.3				
12/14/85	1200	3.0	-4.7	3.4	>-1.0	5.9	>-1.0	7.6	>-1.0	7.6	-3.2				

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#1 0.6			tcp#2 0.9			tcp#3 1.5			tcp#4 2.1		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
12/15/85	0	3.0	-4.7	3.3	>-1.0	5.8		>-1.0	7.5		7.5	-3.4
12/15/85	1200	3.0	-4.8	3.3	>-1.0	5.9		>-1.0	7.6		7.6	-3.5
12/16/85	0	3.0	-5.0	3.3	>-1.0	5.9		>-1.0	7.5		7.5	-3.1
12/16/85	1200	2.9	-4.6	3.3	>-1.0	5.8		>-1.0	7.5		7.5	-3.1
12/17/85	0	2.9	-4.8	3.3	>-1.0	5.8		>-1.0	7.4		7.4	-3.0
12/17/85	1200	2.8	-4.2	3.2	>-1.0	5.7		>-1.0	7.4		7.4	-2.9
12/18/85	0	2.8	-4.6	3.2	>-1.0	5.7		>-1.0	7.4		7.4	-3.3
12/18/85	1200	2.8	-4.9	3.2	>-1.0	5.7		>-1.0	7.4		7.4	-2.9
12/19/85	0	2.8	-4.3	3.1	>-1.0	5.7		>-1.0	7.3		7.3	-3.1
12/19/85	1200	2.7	-4.4	3.0	>-1.0	5.6		>-1.0	7.3		7.3	-3.0
12/20/85	0	2.7	-4.6	3.1	>-1.0	5.6		>-1.0	7.3		7.3	-3.0
12/20/85	1200	2.7	-4.6	3.0	>-1.0	5.6		>-1.0	7.2		7.2	-2.9
12/21/85	0	2.7	-4.6	3.1	>-1.0	5.6		>-1.0	7.3		7.3	-3.1
12/21/85	1200	2.6	-4.5	3.0	>-1.0	5.5		>-1.0	7.2		7.2	-3.2
12/22/85	0	2.7	-4.5	3.0	>-1.0	5.5		>-1.0	7.2		7.2	-3.0
12/22/85	1200	2.6	-4.6	2.9	>-1.0	5.4		>-1.0	7.1		7.1	-3.0
12/23/85	0	2.7	-4.7	3.0	>-1.0	5.5		>-1.0	7.2		7.2	-2.9
12/23/85	1200	2.5	-4.5	2.9	>-1.0	5.4		>-1.0	7.0		7.0	-3.2
12/24/85	0	2.6	-4.5	2.9	>-1.0	5.4		>-1.0	7.1		7.1	-3.0
12/24/85	1200	2.6	-5.2	2.9	>-1.0	5.4		>-1.0	7.1		7.1	-3.0
12/25/85	0	2.5	-4.7	2.8	>-1.0	5.3		>-1.0	7.0		7.0	-2.7
12/25/85	1200	2.5	-4.9	2.8	>-1.0	5.3		>-1.0	7.0		7.0	-2.9
12/26/85	0	2.5	-4.7	2.8	>-1.0	5.3		>-1.0	7.0		7.0	-3.1
12/26/85	1200	2.4	-4.4	2.7	>-1.0	5.2		>-1.0	6.9		6.9	-3.0
12/27/85	0	2.4	-4.5	2.8	>-1.0	5.2		>-1.0	6.9		6.9	-3.1
12/27/85	1200	2.3	-4.7	2.7	>-1.0	5.2		>-1.0	6.9		6.9	-3.0
12/28/85	0	2.4	-4.9	2.7	>-1.0	5.2		>-1.0	6.8		6.8	-2.9
12/28/85	1200	2.3	-4.7	2.6	>-1.0	5.1		>-1.0	6.8		6.8	-3.0
12/29/85	0	2.3	-4.9	2.7	>-1.0	5.1		>-1.0	6.8		6.8	-3.0
12/29/85	1200	2.3	-4.9	2.6	>-1.0	5.1		>-1.0	6.8		6.8	-3.0
12/30/85	0	2.2	-4.8	2.6	>-1.0	5.1		>-1.0	6.7		6.7	-3.0
12/30/85	1200	2.2	-4.6	2.6	>-1.0	5.1		>-1.0	6.8		6.8	-3.0
12/31/85	0	2.3	-4.9	2.5	>-1.0	5.0		>-1.0	6.7		6.7	-3.4
12/31/85	1200	2.1	-4.9	2.5	>-1.0	5.0		>-1.0	6.7		6.7	-3.3
01/01/86	0	2.1	-4.6	2.5	>-1.0	5.0		>-1.0	6.7		6.7	-3.3
01/01/86	1200	2.1	-4.8	2.5	>-1.0	5.0		>-1.0	6.7		6.7	-3.2

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#1 0.6			tcp#2 0.9			tcp#3 1.5			tcp#4 2.1		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil-water potential (bars)
01/02/86	0	2.1	-4.6	2.5	>-1.0	4.9	>-1.0	6.7	>-1.0	6.7	>-1.0	-3.2
01/02/86	1200	2.1	-4.7	2.5	>-1.0	5.0	>-1.0	6.6	>-1.0	6.6	>-1.0	-3.5
01/03/86	0	2.1	-4.6	2.4	>-1.0	4.9	>-1.0	6.6	>-1.0	6.6	>-1.0	-3.3
01/03/86	1200	2.0	-4.7	2.4	>-1.0	4.8	>-1.0	6.5	>-1.0	6.5	>-1.0	-3.0
01/04/86	0	2.0	-4.4	2.3	>-1.0	4.8	>-1.0	6.5	>-1.0	6.5	>-1.0	-3.2
01/04/86	1200	2.0	-4.6	2.3	>-1.0	4.8	>-1.0	6.5	>-1.0	6.5	>-1.0	-3.1
01/05/86	0	2.0	-4.7	2.3	>-1.0	4.8	>-1.0	6.5	>-1.0	6.5	>-1.0	-3.1
01/05/86	1200	1.9	-4.9	2.3	>-1.0	4.8	>-1.0	6.4	>-1.0	6.4	>-1.0	-3.1
01/06/86	0	1.9	-4.7	2.3	>-1.0	4.7	>-1.0	6.4	>-1.0	6.4	>-1.0	-3.1
01/06/86	1200	1.9	-4.7	2.2	>-1.0	4.7	>-1.0	6.4	>-1.0	6.4	>-1.0	-3.0
01/07/86	0	1.9	-4.7	2.2	>-1.0	4.7	>-1.0	6.4	>-1.0	6.4	>-1.0	-3.1
01/07/86	1200	1.8	-4.7	2.1	>-1.0	4.6	>-1.0	6.3	>-1.0	6.3	>-1.0	-3.1
01/08/86	0	1.9	-4.8	2.2	>-1.0	4.7	>-1.0	6.4	>-1.0	6.4	>-1.0	-2.8
01/08/86	1200	1.7	-5.0	2.1	>-1.0	4.6	>-1.0	6.3	>-1.0	6.3	>-1.0	-3.0
01/09/86	0	1.8	-5.0	2.2	>-1.0	4.6	>-1.0	6.3	>-1.0	6.3	>-1.0	-3.0
01/09/86	1200	1.7	-4.7	2.1	>-1.0	4.5	>-1.0	6.2	>-1.0	6.2	>-1.0	-3.1
01/10/86	0	1.8	-4.5	2.1	>-1.0	4.6	>-1.0	6.2	>-1.0	6.2	>-1.0	-3.0
01/10/86	1200	1.7	-4.8	2.0	>-1.0	4.5	>-1.0	6.2	>-1.0	6.2	>-1.0	-3.0
01/11/86	0	1.8	-4.6	2.1	>-1.0	4.5	>-1.0	6.2	>-1.0	6.2	>-1.0	-3.1
01/11/86	1200	1.6	-4.6	1.9	>-1.0	4.4	>-1.0	6.1	>-1.0	6.1	>-1.0	-2.9
01/12/86	0	1.7	-4.8	2.0	>-1.0	4.4	>-1.0	6.1	>-1.0	6.1	>-1.0	-3.0
01/12/86	1200	1.6	-4.7	2.0	>-1.0	4.5	>-1.0	6.2	>-1.0	6.2	>-1.0	-2.9
01/13/86	0	1.7	-4.8	2.0	>-1.0	4.4	>-1.0	6.1	>-1.0	6.1	>-1.0	-3.1
01/13/86	1200	1.6	-4.6	1.9	>-1.0	4.4	>-1.0	6.1	>-1.0	6.1	>-1.0	-3.0
01/14/86	0	1.7	-4.8	2.0	>-1.0	4.4	>-1.0	6.2	>-1.0	6.2	>-1.0	-2.8
01/14/86	1200	1.5	-4.7	1.8	>-1.0	4.3	>-1.0	6.0	>-1.0	6.0	>-1.0	-3.1
01/15/86	0	1.6	-4.8	1.9	>-1.0	4.4	>-1.0	6.0	>-1.0	6.0	>-1.0	-3.1
01/15/86	1200	1.6	-4.8	1.9	>-1.0	4.4	>-1.0	6.0	>-1.0	6.0	>-1.0	-2.8
01/16/86	0	1.5	-4.8	1.9	>-1.0	4.3	>-1.0	6.0	>-1.0	6.0	>-1.0	-3.1
01/16/86	1200	1.5	-4.7	1.8	>-1.0	4.2	>-1.0	5.9	>-1.0	5.9	>-1.0	-3.1
01/17/86	0	1.4	-4.6	1.8	>-1.0	4.2	>-1.0	5.9	>-1.0	5.9	>-1.0	-2.9
01/17/86	1200	1.4	-4.4	1.8	>-1.0	4.2	>-1.0	5.9	>-1.0	5.9	>-1.0	-2.9
01/18/86	0	1.5	-4.5	1.8	>-1.0	4.2	>-1.0	5.9	>-1.0	5.9	>-1.0	-2.8
01/18/86	1200	1.5	-4.8	1.8	>-1.0	4.2	>-1.0	5.9	>-1.0	5.9	>-1.0	-2.9
01/19/86	0	1.5	-4.5	1.8	>-1.0	4.2	>-1.0	5.9	>-1.0	5.9	>-1.0	-2.7
01/19/86	1200	1.5	-4.5	1.8	>-1.0	4.2	>-1.0	5.9	>-1.0	5.9	>-1.0	-3.1

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#1 0.6			tcp#2 0.9			tcp#3 1.5			tcp#4 2.1		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
01/20/86	0	1.5	-4.7	1.8	>-1.0	4.1	4.1	>-1.0	5.8	>-1.0	5.8	-3.0
01/20/86	1200	1.5	-4.5	1.8	>-1.0	4.1	4.1	>-1.0	5.8	>-1.0	5.8	-3.1
01/21/86	0	1.6	-4.8	1.9	>-1.0	4.2	4.2	>-1.0	5.8	>-1.0	5.8	-3.0
01/21/86	1200	1.6	-4.4	1.8	>-1.0	4.1	4.1	>-1.0	5.7	>-1.0	5.7	-3.0
01/22/86	0	1.7	-4.9	1.9	>-1.0	4.1	4.1	>-1.0	5.8	>-1.0	5.8	-2.9
01/22/86	1200	1.7	-4.5	1.9	>-1.0	4.1	4.1	>-1.0	5.7	>-1.0	5.7	-2.8
01/23/86	0	1.7	-4.6	1.9	>-1.0	4.0	4.0	>-1.0	5.7	>-1.0	5.7	-2.9
01/23/86	1200	1.7	-4.6	1.9	>-1.0	4.0	4.0	>-1.0	5.7	>-1.0	5.7	-2.9
01/24/86	0	1.7	-4.5	2.0	>-1.0	4.1	4.1	>-1.0	5.7	>-1.0	5.7	-3.0
01/24/86	1200	1.7	-4.6	1.9	>-1.0	4.0	4.0	>-1.0	5.6	>-1.0	5.6	-3.1
01/25/86	0	1.7	-4.7	1.9	>-1.0	4.0	4.0	>-1.0	5.6	>-1.0	5.6	-3.0
01/25/86	1200	1.8	-4.4	2.0	>-1.0	4.1	4.1	>-1.0	5.7	>-1.0	5.7	-3.0
01/26/86	0	1.7	-4.8	2.0	>-1.0	4.0	4.0	>-1.0	5.6	>-1.0	5.6	-2.9
01/26/86	1200	1.7	-4.5	2.0	>-1.0	4.0	4.0	>-1.0	5.6	>-1.0	5.6	-2.7
01/27/86	0	1.8	-5.0	2.0	>-1.0	4.1	4.1	>-1.0	5.6	>-1.0	5.6	-2.8
01/27/86	1200	1.6	-4.5	1.9	>-1.0	4.0	4.0	>-1.0	5.5	>-1.0	5.5	-2.9
01/28/86	0	1.7	-4.4	1.9	>-1.0	4.0	4.0	>-1.0	5.5	>-1.0	5.5	-2.9
01/28/86	1200	1.6	-4.6	1.9	>-1.0	3.9	3.9	>-1.0	5.5	>-1.0	5.5	-2.9
01/29/86	0	1.7	-4.8	1.9	>-1.0	4.0	4.0	>-1.0	5.5	>-1.0	5.5	-2.7
01/29/86	1200	1.6	-4.7	1.9	>-1.0	4.0	4.0	>-1.0	5.5	>-1.0	5.5	-2.6
01/30/86	0	1.7	-4.7	1.9	>-1.0	4.0	4.0	>-1.0	5.6	>-1.0	5.6	-3.0
01/30/86	1200	1.5	-4.6	1.8	>-1.0	3.9	3.9	>-1.0	5.4	>-1.0	5.4	-2.5
01/31/86	0	1.6	-4.5	1.9	>-1.0	4.0	4.0	>-1.0	5.5	>-1.0	5.5	-2.9
01/31/86	1200	1.6	-4.7	1.8	>-1.0	3.9	3.9	>-1.0	5.5	>-1.0	5.5	-2.7
02/01/86	0	1.6	-4.6	1.8	>-1.0	3.9	3.9	>-1.0	5.5	>-1.0	5.5	-3.0
02/01/86	1200	1.5	-4.5	1.8	>-1.0	3.9	3.9	>-1.0	5.4	>-1.0	5.4	-2.9
02/02/86	0	1.6	-4.9	1.8	>-1.0	3.9	3.9	>-1.0	5.4	>-1.0	5.4	-2.8
02/02/86	1200	1.6	-4.7	1.8	>-1.0	3.9	3.9	>-1.0	5.4	>-1.0	5.4	-3.1
02/03/86	0	1.6	-4.6	1.8	>-1.0	3.9	3.9	>-1.0	5.4	>-1.0	5.4	-3.0
02/03/86	1200	1.5	-4.7	1.8	>-1.0	3.8	3.8	>-1.0	5.3	>-1.0	5.3	-3.0
02/04/86	0	1.6	-4.3	1.9	>-1.0	3.8	3.8	>-1.0	5.3	>-1.0	5.3	-3.0
02/04/86	1200	1.6	-4.7	1.8	>-1.0	3.8	3.8	>-1.0	5.3	>-1.0	5.3	-3.0
02/05/86	0	1.6	-4.5	1.8	>-1.0	3.8	3.8	>-1.0	5.3	>-1.0	5.3	-2.8
02/05/86	1200	1.7	-4.8	1.9	>-1.0	3.8	3.8	>-1.0	5.3	>-1.0	5.3	-2.8
02/06/86	0	1.7	-4.8	2.0	>-1.0	3.9	3.9	>-1.0	5.4	>-1.0	5.4	-2.9
02/06/86	1200	1.6	-4.3	1.9	>-1.0	3.8	3.8	>-1.0	5.3	>-1.0	5.3	-2.9

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier		tcp#1			tcp#2			tcp#3			tcp#4		
Depth below land surface (meters)		0.6			0.9			1.5			2.1		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
02/07/86	0	1.8	-4.4	2.0	>-1.0	3.8	>-1.0	5.3	>-1.0	5.3	>-1.0	5.3	-3.0
02/07/86	1200	1.7	-4.4	1.9	>-1.0	3.7	>-1.0	5.2	>-1.0	5.2	>-1.0	5.2	-3.2
02/08/86	0	1.8	-4.6	2.0	>-1.0	3.8	>-1.0	5.3	>-1.0	5.3	>-1.0	5.3	-3.0
02/08/86	1200	1.7	-4.3	1.9	>-1.0	3.8	>-1.0	5.2	>-1.0	5.2	>-1.0	5.2	-2.7
02/09/86	0	1.8	-4.4	2.0	>-1.0	3.8	>-1.0	5.2	>-1.0	5.2	>-1.0	5.2	-2.8
02/09/86	1200	1.8	-4.3	2.0	>-1.0	3.8	>-1.0	5.2	>-1.0	5.2	>-1.0	5.2	-3.0
02/10/86	0	1.8	-4.8	2.0	>-1.0	3.8	>-1.0	5.2	>-1.0	5.2	>-1.0	5.2	-3.1
02/10/86	1200	1.7	-4.0	1.9	>-1.0	3.7	>-1.0	5.2	>-1.0	5.2	>-1.0	5.2	-3.0
02/11/86	0	1.7	-4.5	1.9	>-1.0	3.8	>-1.0	5.2	>-1.0	5.2	>-1.0	5.2	-3.1
02/11/86	1200	1.6	-4.3	1.9	>-1.0	3.7	>-1.0	5.1	>-1.0	5.1	>-1.0	5.1	-2.8
02/12/86	0	1.7	-4.6	2.0	>-1.0	3.8	>-1.0	5.2	>-1.0	5.2	>-1.0	5.2	-2.8
02/12/86	1200	1.6	-4.5	1.9	>-1.0	3.7	>-1.0	5.1	>-1.0	5.1	>-1.0	5.1	-3.0
02/13/86	0	1.6	-4.7	1.9	>-1.0	3.8	>-1.0	5.2	>-1.0	5.2	>-1.0	5.2	-2.8
02/13/86	1200	1.6	-4.5	1.8	>-1.0	3.7	>-1.0	5.1	>-1.0	5.1	>-1.0	5.1	-3.1
02/14/86	0	1.6	-4.2	1.8	>-1.0	3.7	>-1.0	5.1	>-1.0	5.1	>-1.0	5.1	-3.0
02/14/86	1200	1.5	-4.7	1.7	>-1.0	3.7	>-1.0	5.1	>-1.0	5.1	>-1.0	5.1	-3.1
02/15/86	0	1.6	-4.6	1.8	>-1.0	3.8	>-1.0	5.1	>-1.0	5.1	>-1.0	5.1	-3.0
02/15/86	1200	1.5	-4.7	1.7	>-1.0	3.7	>-1.0	5.1	>-1.0	5.1	>-1.0	5.1	-3.1
02/16/86	0	1.5	-4.4	1.7	>-1.0	3.7	>-1.0	5.1	>-1.0	5.1	>-1.0	5.1	-2.8
02/16/86	1200	1.5	-4.5	1.7	>-1.0	3.7	>-1.0	5.1	>-1.0	5.1	>-1.0	5.1	-3.0
02/17/86	0	1.5	-4.7	1.7	>-1.0	3.6	>-1.0	5.0	>-1.0	5.0	>-1.0	5.0	-2.9
02/17/86	1200	1.5	-4.7	1.7	>-1.0	3.7	>-1.0	5.1	>-1.0	5.1	>-1.0	5.1	-2.7
02/18/86	0	1.5	-4.5	1.8	>-1.0	3.7	>-1.0	5.1	>-1.0	5.1	>-1.0	5.1	-3.0
02/18/86	1200	1.5	-4.5	1.7	>-1.0	3.6	>-1.0	5.0	>-1.0	5.0	>-1.0	5.0	-3.2
02/19/86	0	1.5	-4.7	1.7	>-1.0	3.6	>-1.0	5.0	>-1.0	5.0	>-1.0	5.0	-2.9
02/19/86	1200	1.5	-4.7	1.7	>-1.0	3.6	>-1.0	5.0	>-1.0	5.0	>-1.0	5.0	-2.9
02/20/86	0	1.5	-4.9	1.7	>-1.0	3.6	>-1.0	5.0	>-1.0	5.0	>-1.0	5.0	-2.9
02/20/86	1200	1.4	-4.4	1.6	>-1.0	3.5	>-1.0	5.0	>-1.0	5.0	>-1.0	5.0	-3.1
02/21/86	0	1.5	-4.6	1.7	>-1.0	3.6	>-1.0	5.0	>-1.0	5.0	>-1.0	5.0	-2.9
02/21/86	1200	1.5	-4.6	1.6	>-1.0	3.6	>-1.0	5.0	>-1.0	5.0	>-1.0	5.0	-3.1
02/22/86	0	1.4	-4.7	1.6	>-1.0	3.5	>-1.0	4.9	>-1.0	4.9	>-1.0	4.9	-3.1
02/22/86	1200	1.4	-4.3	1.6	>-1.0	3.5	>-1.0	4.9	>-1.0	4.9	>-1.0	4.9	-3.2
02/23/86	0	1.5	-4.5	1.7	>-1.0	3.6	>-1.0	5.0	>-1.0	5.0	>-1.0	5.0	-3.0
02/23/86	1200	1.4	-4.4	1.6	>-1.0	3.5	>-1.0	4.9	>-1.0	4.9	>-1.0	4.9	-2.8
02/24/86	0	1.4	-4.4	1.6	>-1.0	3.5	>-1.0	4.9	>-1.0	4.9	>-1.0	4.9	-2.9
02/24/86	1200	1.3	-4.9	1.5	>-1.0	3.4	>-1.0	4.9	>-1.0	4.9	>-1.0	4.9	-2.9

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#1 0.6			tcp#2 0.9			tcp#3 1.5			tcp#4 2.1		
	Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
02/25/86	0	1.4	-4.7	1.6	>-1.0	3.4	>-1.0	4.9	>-1.0	4.9	-2.8	
02/25/86	1200	1.2	-4.9	1.4	>-1.0	3.3	>-1.0	4.8	>-1.0	4.8	-2.7	
02/26/86	0	1.5	-4.9	1.6	>-1.0	3.4	>-1.0	4.9	>-1.0	4.9	-2.8	
02/26/86	1200	1.2	-4.5	1.5	>-1.0	3.3	>-1.0	4.7	>-1.0	4.7	-2.8	
02/27/86	0	1.4	-4.8	1.6	>-1.0	3.3	>-1.0	4.8	>-1.0	4.8	-2.8	
02/27/86	1200	1.4	-4.6	1.6	>-1.0	3.2	>-1.0	4.8	>-1.0	4.8	-3.0	
02/28/86	0	1.6	-4.5	1.7	>-1.0	3.2	>-1.0	4.8	>-1.0	4.8	-2.9	
02/28/86	1200	1.7	-4.5	1.7	>-1.0	3.2	>-1.0	4.7	>-1.0	4.7	-3.4	
03/01/86	0	1.9	-4.8	1.9	>-1.0	3.3	>-1.0	4.8	>-1.0	4.8	-2.9	
03/01/86	1200	1.9	-4.4	1.9	>-1.0	3.2	>-1.0	4.7	>-1.0	4.7	-2.9	
03/02/86	0	2.1	-4.9	2.1	>-1.0	3.2	>-1.0	4.7	>-1.0	4.7	-2.8	
03/02/86	1200	2.2	-4.7	2.2	>-1.0	3.2	>-1.0	4.7	>-1.0	4.7	-2.9	
03/03/86	0	2.4	-4.9	2.3	>-1.0	3.3	>-1.0	4.7	>-1.0	4.7	-2.8	
03/03/86	1200	2.5	-4.8	2.4	>-1.0	3.2	>-1.0	4.6	>-1.0	4.6	-2.6	
03/04/86	0	2.7	-4.7	2.6	>-1.0	3.4	>-1.0	4.7	>-1.0	4.7	-3.0	
03/04/86	1200	2.7	--	2.6	>-1.0	3.3	>-1.0	4.5	>-1.0	4.5	-2.8	
03/05/86	0	3.0	--	2.8	>-1.0	3.4	>-1.0	4.6	>-1.0	4.6	-2.7	
03/05/86	1200	2.9	--	3.0	>-1.0	3.5	>-1.0	4.6	>-1.0	4.6	-2.5	
03/06/86	0	3.1	--	2.9	>-1.0	3.5	>-1.0	4.6	>-1.0	4.6	-2.9	
03/06/86	1200	3.0	--	3.1	>-1.0	3.6	>-1.0	4.7	>-1.0	4.7	-2.8	
03/07/86	0	3.2	--	3.1	>-1.0	3.6	>-1.0	4.6	>-1.0	4.6	-2.8	
03/07/86	1200	3.2	--	3.2	>-1.0	3.7	>-1.0	4.6	>-1.0	4.6	-2.7	
03/08/86	0	3.3	--	3.2	>-1.0	3.7	>-1.0	4.7	>-1.0	4.7	-2.7	
03/08/86	1200	3.4	--	3.2	>-1.0	3.6	>-1.0	4.6	>-1.0	4.6	-2.8	
03/09/86	0	3.5	--	3.4	>-1.0	3.7	>-1.0	4.7	>-1.0	4.7	-2.7	
03/09/86	1200	3.6	--	3.4	>-1.0	3.7	>-1.0	4.6	>-1.0	4.6	-2.7	
03/10/86	0	3.7	--	3.5	>-1.0	3.8	>-1.0	4.7	>-1.0	4.7	-2.5	
03/10/86	1200	3.6	--	3.5	>-1.0	3.8	>-1.0	4.7	>-1.0	4.7	-2.6	
03/11/86	0	3.6	--	3.6	>-1.0	3.9	>-1.0	4.7	>-1.0	4.7	-2.6	
03/11/86	1200	3.6	--	3.5	>-1.0	3.9	>-1.0	4.7	>-1.0	4.7	-2.5	
03/12/86	0	3.5	--	3.5	>-1.0	3.9	>-1.0	4.7	>-1.0	4.7	-2.4	
03/12/86	1200	3.5	--	3.5	>-1.0	3.9	>-1.0	4.7	>-1.0	4.7	-2.4	
03/13/86	0	3.5	--	3.5	>-1.0	3.9	>-1.0	4.6	>-1.0	4.6	-2.4	
03/13/86	1200	3.6	--	3.5	>-1.0	4.0	>-1.0	4.7	>-1.0	4.7	-2.4	
03/14/86	0	3.7	--	3.6	>-1.0	4.0	>-1.0	4.8	>-1.0	4.8	-2.4	
03/14/86	1200	3.7	--	3.6	>-1.0	4.0	>-1.0	4.7	>-1.0	4.7	-2.4	

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier													
Depth below land surface (meters)													
tcp#1				tcp#2				tcp#3				tcp#4	
0.6				0.9				1.5				2.1	
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)		
03/15/86	0	3.8	--	3.7	>-1.0	4.1	>-1.0	4.8	>-1.0	4.8	-2.4		
03/15/86	1200	3.7	--	3.7	>-1.0	4.1	>-1.0	4.8	>-1.0	4.8	-2.3		
03/16/86	0	3.8	--	3.7	>-1.0	4.2	>-1.0	4.9	>-1.0	4.9	-2.3		
03/16/86	1200	3.7	--	3.7	>-1.0	4.1	>-1.0	4.8	>-1.0	4.8	-2.0		
03/17/86	0	3.8	--	3.7	>-1.0	4.2	>-1.0	4.9	>-1.0	4.9	-2.4		
03/17/86	1200	3.7	--	3.6	>-1.0	4.2	>-1.0	4.8	>-1.0	4.8	-2.3		
03/18/86	0	3.6	--	3.6	>-1.0	4.2	>-1.0	4.9	>-1.0	4.9	-1.8		
03/18/86	1200	3.4	--	3.4	>-1.0	4.1	>-1.0	4.8	>-1.0	4.8	-1.8		
03/19/86	0	3.4	--	3.4	>-1.0	4.2	>-1.0	4.9	>-1.0	4.9	-1.9		
03/19/86	1200	3.3	--	3.4	>-1.0	4.1	>-1.0	4.8	>-1.0	4.8	-1.9		
03/20/86	0	3.4	--	3.4	>-1.0	4.2	>-1.0	4.8	>-1.0	4.8	-2.2		
03/20/86	1200	3.3	--	3.4	>-1.0	4.1	>-1.0	4.8	>-1.0	4.8	-2.0		
03/21/86	0	3.5	--	3.5	>-1.0	4.2	>-1.0	4.9	>-1.0	4.9	-1.7		
03/21/86	1200	3.5	--	3.4	>-1.0	4.1	>-1.0	4.9	>-1.0	4.9	-2.0		
03/22/86	0	3.7	--	3.6	>-1.0	4.2	>-1.0	4.9	>-1.0	4.9	-2.0		
03/22/86	1200	3.8	--	3.6	>-1.0	4.1	>-1.0	4.9	>-1.0	4.9	-1.7		
03/23/86	0	3.9	--	3.8	>-1.0	4.2	>-1.0	4.9	>-1.0	4.9	-1.7		
03/23/86	1200	4.0	--	3.9	>-1.0	4.1	>-1.0	4.9	>-1.0	4.9	-1.8		
03/24/86	0	4.2	--	4.1	>-1.0	4.2	>-1.0	5.0	>-1.0	5.0	-1.9		
03/24/86	1200	4.2	--	4.1	>-1.0	4.2	>-1.0	4.8	>-1.0	4.8	-1.8		
03/25/86	0	4.4	--	4.3	>-1.0	4.3	>-1.0	4.9	>-1.0	4.9	-2.1		
03/25/86	1200	4.4	--	4.3	>-1.0	4.3	>-1.0	4.9	>-1.0	4.9	-1.7		
03/26/86	0	4.6	--	4.5	>-1.0	4.4	>-1.0	4.9	>-1.0	4.9	-1.5		
03/26/86	1200	4.6	--	4.4	>-1.0	4.3	>-1.0	4.9	>-1.0	4.9	-1.8		
03/27/86	0	4.7	--	4.6	>-1.0	4.5	>-1.0	5.0	>-1.0	5.0	-1.6		
03/27/86	1200	4.7	--	4.5	>-1.0	4.4	>-1.0	4.9	>-1.0	4.9	-1.7		
03/28/86	0	4.9	--	4.7	>-1.0	4.6	>-1.0	5.0	>-1.0	5.0	-1.7		
03/28/86	1200	4.8	--	4.6	>-1.0	4.4	>-1.0	5.0	>-1.0	5.0	-1.6		
03/29/86	0	5.2	--	4.9	>-1.0	4.7	>-1.0	5.2	>-1.0	5.2	-1.6		
03/29/86	1200	5.2	--	4.9	>-1.0	4.5	>-1.0	4.9	>-1.0	4.9	-1.6		
03/30/86	0	5.6	--	5.3	>-1.0	4.8	>-1.0	5.1	>-1.0	5.1	-1.6		
03/30/86	1200	5.6	--	5.3	>-1.0	4.6	>-1.0	5.0	>-1.0	5.0	-1.5		
03/31/86	0	5.9	--	5.6	>-1.0	4.8	>-1.0	5.1	>-1.0	5.1	-1.6		
03/31/86	1200	6.0	--	5.6	>-1.0	4.8	>-1.0	5.1	>-1.0	5.1	-1.5		
04/01/86	0	6.2	--	5.8	>-1.0	4.9	>-1.0	5.1	>-1.0	5.1	-1.6		
04/01/86	1200	6.3	--	5.9	>-1.0	5.0	>-1.0	5.1	>-1.0	5.1	-1.5		

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#1 0.6			tcp#2 0.9			tcp#3 1.5			tcp#4 2.1		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
04/02/86	0	6.3	--	6.0	>-1.0	5.0	5.0	>-1.0	5.2	>-1.0	5.2	-1.5
04/02/86	1200	6.0	--	5.8	>-1.0	5.0	5.0	>-1.0	5.2	>-1.0	5.2	-1.6
04/03/86	0	5.9	--	5.8	>-1.0	5.2	5.2	>-1.0	5.3	>-1.0	5.3	-1.4
04/03/86	1200	5.7	--	5.6	>-1.0	5.2	5.2	>-1.0	5.2	>-1.0	5.2	-1.4
04/04/86	0	5.6	--	5.6	>-1.0	5.3	5.3	>-1.0	5.2	>-1.0	5.2	-1.5
04/04/86	1200	5.5	--	5.4	>-1.0	5.2	5.2	>-1.0	5.3	>-1.0	5.3	-1.6
04/05/86	0	5.6	--	5.5	>-1.0	5.3	5.3	>-1.0	5.4	>-1.0	5.4	-1.4
04/05/86	1200	5.5	--	5.4	>-1.0	5.2	5.2	>-1.0	5.3	>-1.0	5.3	-1.3
04/06/86	0	5.8	--	5.6	>-1.0	5.4	5.4	>-1.0	5.4	>-1.0	5.4	-1.1
04/06/86	1200	5.7	--	5.5	>-1.0	5.2	5.2	>-1.0	5.4	>-1.0	5.4	-1.3
04/07/86	0	6.0	--	5.7	>-1.0	5.4	5.4	>-1.0	5.5	>-1.0	5.5	-1.1
04/07/86	1200	6.1	--	5.8	>-1.0	5.4	5.4	>-1.0	5.5	>-1.0	5.5	-1.5
04/08/86	0	6.2	--	6.0	>-1.0	5.4	5.4	>-1.0	5.5	>-1.0	5.5	-1.5
04/08/86	1200	6.2	--	6.0	>-1.0	5.4	5.4	>-1.0	5.5	>-1.0	5.5	-1.2
04/09/86	0	6.4	--	6.1	>-1.0	5.5	5.5	>-1.0	5.5	>-1.0	5.5	-1.2
04/09/86	1200	6.3	--	6.1	>-1.0	5.5	5.5	>-1.0	5.5	>-1.0	5.5	-1.3
04/10/86	0	6.3	--	6.1	>-1.0	5.5	5.5	>-1.0	5.5	>-1.0	5.5	-1.3
04/10/86	1200	6.2	--	6.1	>-1.0	5.5	5.5	>-1.0	5.5	>-1.0	5.5	-1.3
04/11/86	0	6.3	--	6.1	>-1.0	5.6	5.6	>-1.0	5.6	>-1.0	5.6	-1.5
04/11/86	1200	6.3	--	6.1	>-1.0	5.6	5.6	>-1.0	5.6	>-1.0	5.6	-1.7
04/12/86	0	6.5	--	6.2	>-1.0	5.6	5.6	>-1.0	5.7	>-1.0	5.7	-1.4
04/12/86	1200	6.6	--	6.4	>-1.0	5.7	5.7	>-1.0	5.6	>-1.0	5.6	-1.6
04/13/86	0	6.7	--	6.5	>-1.0	5.7	5.7	>-1.0	5.7	>-1.0	5.7	-1.4
04/13/86	1200	6.7	--	6.5	>-1.0	5.8	5.8	>-1.0	5.6	>-1.0	5.6	-1.4
04/14/86	0	6.7	--	6.5	>-1.0	5.8	5.8	>-1.0	5.8	>-1.0	5.8	-1.1
04/14/86	1200	6.6	--	6.4	>-1.0	5.8	5.8	>-1.0	5.7	>-1.0	5.7	-1.3
04/15/86	0	6.5	--	6.4	>-1.0	5.9	5.9	>-1.0	5.8	>-1.0	5.8	-1.1
04/15/86	1200	6.4	--	6.3	>-1.0	5.9	5.9	>-1.0	5.8	>-1.0	5.8	-1.2
04/16/86	0	6.5	--	6.4	>-1.0	6.0	6.0	>-1.0	5.8	>-1.0	5.8	-1.2
04/16/86	1200	6.5	--	6.3	>-1.0	5.9	5.9	>-1.0	5.8	>-1.0	5.8	-1.3
04/17/86	0	6.7	--	6.5	>-1.0	6.0	6.0	>-1.0	5.9	>-1.0	5.9	-1.2
04/17/86	1200	6.7	--	6.5	>-1.0	6.0	6.0	>-1.0	5.9	>-1.0	5.9	-1.2
04/18/86	0	6.7	--	6.5	>-1.0	6.1	6.1	>-1.0	5.8	>-1.0	5.8	-1.4
04/18/86	1200	6.6	--	6.4	>-1.0	5.9	5.9	>-1.0	5.9	>-1.0	5.9	-1.1
04/19/86	0	6.6	--	6.5	>-1.0	6.0	6.0	>-1.0	5.9	>-1.0	5.9	-1.1
04/19/86	1200	6.6	--	6.5	>-1.0	6.0	6.0	>-1.0	5.9	>-1.0	5.9	-1.3

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)		tcp#1 0.6			tcp#2 0.9			tcp#3 1.5			tcp#4 2.1		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
04/20/86	0	6.7	--	6.5	>-1.0	6.1	>-1.0	6.0	>-1.0	6.0	>-1.0	6.0	-1.2
04/20/86	1200	6.6	--	6.5	>-1.0	6.0	>-1.0	5.9	>-1.0	5.9	>-1.0	5.9	-1.2
04/21/86	0	7.0	--	6.8	>-1.0	6.2	>-1.0	6.0	>-1.0	6.0	>-1.0	6.0	-1.1
04/21/86	1200	6.9	--	6.7	>-1.0	5.9	>-1.0	5.8	>-1.0	5.8	>-1.0	5.8	-1.1
04/22/86	0	7.5	--	7.1	>-1.0	6.3	>-1.0	6.2	>-1.0	6.2	>-1.0	6.2	-1.4
04/22/86	1200	7.5	--	7.2	>-1.0	6.0	>-1.0	5.9	>-1.0	5.9	>-1.0	5.9	-1.3
04/23/86	0	7.9	--	7.5	>-1.0	6.3	>-1.0	6.1	>-1.0	6.1	>-1.0	6.1	-1.2
04/23/86	1200	8.0	--	7.6	>-1.0	6.3	>-1.0	6.0	>-1.0	6.0	>-1.0	6.0	-1.2
04/24/86	0	8.1	--	7.8	>-1.0	6.4	>-1.0	6.1	>-1.0	6.1	>-1.0	6.1	-1.4
04/24/86	1200	8.1	--	7.8	>-1.0	6.4	>-1.0	6.1	>-1.0	6.1	>-1.0	6.1	-1.7
04/25/86	0	8.1	--	7.8	>-1.0	6.5	>-1.0	6.2	>-1.0	6.2	>-1.0	6.2	-1.2
04/25/86	1200	7.9	--	7.7	>-1.0	6.5	>-1.0	6.1	>-1.0	6.1	>-1.0	6.1	-1.4
04/26/86	0	8.0	--	7.8	>-1.0	6.7	>-1.0	6.2	>-1.0	6.2	>-1.0	6.2	-1.3
04/26/86	1200	7.9	--	7.7	>-1.0	6.6	>-1.0	6.2	>-1.0	6.2	>-1.0	6.2	-1.2
04/27/86	0	7.8	--	7.7	>-1.0	6.7	>-1.0	6.3	>-1.0	6.3	>-1.0	6.3	-1.2
04/27/86	1200	7.7	--	7.6	>-1.0	6.7	>-1.0	6.3	>-1.0	6.3	>-1.0	6.3	-1.2
04/28/86	0	7.7	--	7.6	>-1.0	6.8	>-1.0	6.3	>-1.0	6.3	>-1.0	6.3	-1.2
04/28/86	1200	7.7	--	7.5	>-1.0	6.7	>-1.0	6.3	>-1.0	6.3	>-1.0	6.3	-1.0
04/29/86	0	7.8	--	7.6	>-1.0	6.8	>-1.0	6.4	>-1.0	6.4	>-1.0	6.4	-1.3
04/29/86	1200	7.8	--	7.6	>-1.0	6.8	>-1.0	6.4	>-1.0	6.4	>-1.0	6.4	-1.2
04/30/86	0	7.9	--	7.7	>-1.0	6.8	>-1.0	6.4	>-1.0	6.4	>-1.0	6.4	-1.2
04/30/86	1200	7.9	--	7.7	>-1.0	6.8	>-1.0	6.4	>-1.0	6.4	>-1.0	6.4	-1.1
05/01/86	0	7.9	--	7.7	>-1.0	6.9	>-1.0	6.4	>-1.0	6.4	>-1.0	6.4	-1.1
05/01/86	1200	7.8	--	7.6	>-1.0	6.8	>-1.0	6.4	>-1.0	6.4	>-1.0	6.4	-1.1
05/02/86	0	8.0	--	7.8	>-1.0	6.9	>-1.0	6.5	>-1.0	6.5	>-1.0	6.5	-1.2
05/02/86	1200	8.0	--	7.8	>-1.0	6.8	>-1.0	6.4	>-1.0	6.4	>-1.0	6.4	-1.0
05/03/86	0	8.5	--	8.2	>-1.0	7.1	>-1.0	6.7	>-1.0	6.7	>-1.0	6.7	-1.0
05/03/86	1200	8.5	--	8.1	>-1.0	6.8	>-1.0	6.4	>-1.0	6.4	>-1.0	6.4	-1.0
05/04/86	0	9.1	--	8.6	>-1.0	7.2	>-1.0	6.8	>-1.0	6.8	>-1.0	6.8	-1.1
05/04/86	1200	9.3	--	8.7	>-1.0	7.1	>-1.0	6.6	>-1.0	6.6	>-1.0	6.6	-1.2
05/05/86	0	9.4	--	8.9	>-1.0	7.1	>-1.0	6.6	>-1.0	6.6	>-1.0	6.6	-0.8
05/05/86	1200	9.3	--	8.9	>-1.0	7.2	>-1.0	6.7	>-1.0	6.7	>-1.0	6.7	-1.0
05/06/86	0	9.2	--	8.9	>-1.0	7.3	>-1.0	6.7	>-1.0	6.7	>-1.0	6.7	-1.2
05/06/86	1200	9.1	--	8.8	>-1.0	7.4	>-1.0	6.8	>-1.0	6.8	>-1.0	6.8	-1.3
05/07/86	0	9.0	--	8.8	>-1.0	7.4	>-1.0	6.8	>-1.0	6.8	>-1.0	6.8	-1.2
05/07/86	1200	8.8	--	8.7	>-1.0	7.4	>-1.0	7.4	>-1.0	7.4	>-1.0	7.4	-1.3

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#1 0.6			tcp#2 0.9			tcp#3 1.5			tcp#4 2.1		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
05/08/86	0	8.6	--	8.6	>-1.0	7.5	7.5	>-1.0	6.8	>-1.0	6.8	-1.0
05/08/86	1200	8.6	--	8.5	>-1.0	7.6	7.6	>-1.0	6.9	>-1.0	6.9	>-1.0
05/09/86	0	8.4	--	8.3	>-1.0	7.5	7.5	>-1.0	6.9	>-1.0	6.9	>-1.0
05/09/86	1200	8.2	--	8.2	>-1.0	7.5	7.5	>-1.0	6.9	>-1.0	6.9	-1.0
05/10/86	0	8.2	--	8.1	>-1.0	7.6	7.6	>-1.0	7.0	>-1.0	7.0	>-1.0
05/10/86	1200	8.1	--	8.1	>-1.0	7.5	7.5	>-1.0	6.9	>-1.0	6.9	-1.1
05/11/86	0	8.1	--	8.1	>-1.0	7.6	7.6	>-1.0	7.0	>-1.0	7.0	-1.2
05/11/86	1200	8.0	--	8.0	>-1.0	7.5	7.5	>-1.0	7.0	>-1.0	7.0	-1.1
05/12/86	0	8.0	--	8.0	>-1.0	7.6	7.6	>-1.0	7.1	>-1.0	7.1	-1.2
05/12/86	1200	7.9	--	7.9	>-1.0	7.5	7.5	>-1.0	7.0	>-1.0	7.0	-1.0
05/13/86	0	7.9	--	7.9	>-1.0	7.6	7.6	>-1.0	7.1	>-1.0	7.1	-1.3
05/13/86	1200	7.9	--	7.9	>-1.0	7.5	7.5	>-1.0	7.0	>-1.0	7.0	-1.2
05/14/86	0	8.0	--	7.9	>-1.0	7.5	7.5	>-1.0	7.1	>-1.0	7.1	-1.1
05/14/86	1200	8.1	--	8.0	>-1.0	7.4	7.4	>-1.0	7.1	>-1.0	7.1	-1.0
05/15/86	0	8.2	--	8.1	>-1.0	7.5	7.5	>-1.0	7.2	>-1.0	7.2	-1.1
05/15/86	1200	8.2	--	8.0	>-1.0	7.4	7.4	>-1.0	7.1	>-1.0	7.1	>-1.0
05/16/86	0	8.3	--	8.1	>-1.0	7.5	7.5	>-1.0	7.1	>-1.0	7.1	>-1.0
05/16/86	1200	8.4	--	8.2	>-1.0	7.5	7.5	>-1.0	7.1	>-1.0	7.1	-1.1
05/17/86	0	8.5	--	8.4	>-1.0	7.6	7.6	>-1.0	7.2	>-1.0	7.2	>-1.0
05/17/86	1200	8.6	--	8.4	>-1.0	7.5	7.5	>-1.0	7.1	>-1.0	7.1	-1.3
05/18/86	0	8.8	--	8.6	>-1.0	7.6	7.6	>-1.0	7.2	>-1.0	7.2	>-1.0
05/18/86	1200	8.7	--	8.5	>-1.0	7.4	7.4	>-1.0	7.1	>-1.0	7.1	-1.0
05/19/86	0	9.1	--	8.8	>-1.0	7.7	7.7	>-1.0	7.3	>-1.0	7.3	>-1.0
05/19/86	1200	9.1	--	8.8	>-1.0	7.5	7.5	>-1.0	7.1	>-1.0	7.1	-1.0
05/20/86	0	9.6	--	9.2	>-1.0	7.8	7.8	>-1.0	7.3	>-1.0	7.3	-1.1
05/20/86	1200	9.6	--	9.2	>-1.0	7.6	7.6	>-1.0	7.1	>-1.0	7.1	-1.1
05/21/86	0	10.2	--	9.7	>-1.0	7.9	7.9	>-1.0	7.3	>-1.0	7.3	>-1.0
05/21/86	1200	10.4	--	9.9	>-1.0	7.8	7.8	>-1.0	7.2	>-1.0	7.2	-1.0
05/22/86	0	10.7	--	10.2	>-1.0	8.0	8.0	>-1.0	7.3	>-1.0	7.3	-1.1
05/22/86	1200	10.7	--	10.2	>-1.0	8.1	8.1	>-1.0	7.3	>-1.0	7.3	-1.1
05/23/86	0	10.5	--	10.2	>-1.0	8.1	8.1	>-1.0	7.3	>-1.0	7.3	-1.1
05/23/86	1200	10.1	--	10.0	>-1.0	8.3	8.3	>-1.0	7.4	>-1.0	7.4	-1.0
05/24/86	0	10.0	--	9.9	>-1.0	8.2	8.2	>-1.0	7.4	>-1.0	7.4	-1.1
05/24/86	1200	9.8	--	9.7	>-1.0	8.5	8.5	>-1.0	7.6	>-1.0	7.6	>-1.0
05/25/86	0	10.2	--	9.9	>-1.0	8.2	8.2	>-1.0	7.4	>-1.0	7.4	>-1.0
05/25/86	1200	10.1	--	9.8	>-1.0	8.2	8.2	>-1.0	7.4	>-1.0	7.4	>-1.0

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#1 0.6			tcp#2 0.9			tcp#3 1.5			tcp#4 2.1		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil-water potential (bars)
05/26/86	0	10.6	--	10.2	>-1.0	8.5	>-1.0	7.7	>-1.0	7.7	>-1.0	>-1.0
05/26/86	1200	10.5	--	10.1	>-1.0	8.3	>-1.0	7.4	>-1.0	7.4	>-1.0	>-1.0
05/27/86	0	11.1	--	10.7	>-1.0	8.6	>-1.0	7.7	>-1.0	7.7	>-1.0	>-1.0
05/27/86	1200	11.2	--	10.7	>-1.0	8.4	>-1.0	7.5	>-1.0	7.5	>-1.0	>-1.0
05/28/86	0	11.7	--	11.2	>-1.0	8.7	>-1.0	7.8	>-1.0	7.8	>-1.0	>-1.0
05/28/86	1200	11.8	--	11.2	>-1.0	8.5	>-1.0	7.6	>-1.0	7.6	>-1.0	>-1.0
05/29/86	0	12.4	--	11.7	>-1.0	8.9	>-1.0	7.8	>-1.0	7.8	>-1.0	>-1.0
05/29/86	1200	12.4	--	11.8	>-1.0	8.7	>-1.0	7.7	>-1.0	7.7	>-1.0	>-1.0
05/30/86	0	13.0	--	12.3	>-1.0	9.1	>-1.0	7.9	>-1.0	7.9	>-1.0	>-1.0
05/31/86	0	13.5	--	12.8	>-1.0	9.3	>-1.0	8.0	>-1.0	8.0	>-1.0	>-1.0
05/31/86	1200	13.4	--	12.7	>-1.0	9.1	>-1.0	7.8	>-1.0	7.8	>-1.0	>-1.0
06/01/86	0	13.8	--	13.1	>-1.0	9.5	>-1.0	8.1	>-1.0	8.1	>-1.0	>-1.0
06/01/86	1200	13.8	--	13.2	>-1.0	9.4	>-1.0	7.9	>-1.0	7.9	>-1.0	>-1.0
06/02/86	0	14.3	--	13.5	>-1.0	9.8	>-1.0	8.2	>-1.0	8.2	>-1.0	>-1.0
06/02/86	1200	14.2	--	13.5	>-1.0	9.6	>-1.0	8.0	>-1.0	8.0	>-1.0	>-1.0
06/03/86	0	14.6	--	13.9	>-1.0	10.0	>-1.0	8.2	>-1.0	8.2	>-1.0	>-1.0
06/03/86	1200	14.7	--	13.9	>-1.0	9.9	>-1.0	8.2	>-1.0	8.2	>-1.0	>-1.0
06/04/86	0	15.0	--	14.2	>-1.0	10.2	>-1.0	8.4	>-1.0	8.4	>-1.0	>-1.0
06/04/86	1200	14.7	--	14.1	>-1.0	10.1	>-1.0	8.3	>-1.0	8.3	>-1.0	>-1.0
06/05/86	0	15.0	--	14.4	>-1.0	10.4	>-1.0	8.5	>-1.0	8.5	>-1.0	>-1.0
06/05/86	1200	14.9	--	14.3	>-1.0	10.4	>-1.0	8.5	>-1.0	8.5	>-1.0	>-1.0
06/06/86	0	15.2	--	14.6	>-1.0	10.7	>-1.0	8.6	>-1.0	8.6	>-1.0	>-1.0
06/06/86	1200	15.0	--	14.4	>-1.0	10.5	>-1.0	8.6	>-1.0	8.6	>-1.0	>-1.0
06/07/86	0	15.1	--	14.5	>-1.0	10.8	>-1.0	8.8	>-1.0	8.8	>-1.0	>-1.0
06/07/86	1200	14.9	--	14.4	>-1.0	10.8	>-1.0	8.8	>-1.0	8.8	>-1.0	>-1.0
06/08/86	0	15.0	--	14.5	>-1.0	11.0	>-1.0	8.8	>-1.0	8.8	>-1.0	>-1.0
06/08/86	1200	14.7	--	14.3	>-1.0	10.9	>-1.0	8.9	>-1.0	8.9	>-1.0	>-1.0
06/09/86	0	14.5	--	14.2	>-1.0	11.1	>-1.0	9.0	>-1.0	9.0	>-1.0	>-1.0
06/09/86	1200	14.2	--	14.0	>-1.0	11.2	>-1.0	9.0	>-1.0	9.0	>-1.0	>-1.0
06/10/86	0	14.3	--	14.0	>-1.0	11.2	>-1.0	9.1	>-1.0	9.1	>-1.0	>-1.0
06/10/86	1200	13.9	--	13.7	>-1.0	11.1	>-1.0	9.1	>-1.0	9.1	>-1.0	>-1.0
06/11/86	0	14.1	--	13.8	>-1.0	11.3	>-1.0	9.3	>-1.0	9.3	>-1.0	>-1.0
06/11/86	1200	14.0	--	13.6	>-1.0	11.1	>-1.0	9.2	>-1.0	9.2	>-1.0	>-1.0
06/12/86	0	14.3	--	13.9	>-1.0	11.3	>-1.0	9.4	>-1.0	9.4	>-1.0	>-1.0
06/12/86	1200	14.3	--	13.8	>-1.0	11.1	>-1.0	9.2	>-1.0	9.2	>-1.0	>-1.0
06/13/86	0	14.7	--	14.2	>-1.0	11.4	>-1.0	9.5	>-1.0	9.5	>-1.0	>-1.0

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)		tcp#1 0.6			tcp#2 0.9			tcp#3 1.5			tcp#4 2.1		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
06/13/86	1200	14.6	--	14.1	>-1.0	11.2	>-1.0	9.3	>-1.0	9.3	>-1.0	9.3	>-1.0
06/14/86	0	15.0	--	14.5	>-1.0	11.5	>-1.0	9.6	>-1.0	9.6	>-1.0	9.6	>-1.0
06/14/86	1200	14.9	--	14.4	>-1.0	11.2	>-1.0	9.5	>-1.0	9.5	>-1.0	9.5	>-1.0
06/15/86	0	15.2	--	14.7	>-1.0	11.6	>-1.0	9.6	>-1.0	9.6	>-1.0	9.6	>-1.0
06/15/86	1200	15.0	--	14.6	>-1.0	11.4	>-1.0	9.6	>-1.0	9.6	>-1.0	9.6	>-1.0
06/16/86	0	15.2	--	14.8	>-1.0	11.7	>-1.0	9.8	>-1.0	9.8	>-1.0	9.8	>-1.0
06/16/86	1200	15.0	--	14.6	>-1.0	11.5	>-1.0	9.6	>-1.0	9.6	>-1.0	9.6	>-1.0
06/17/86	0	15.3	--	14.9	>-1.0	11.8	>-1.0	9.9	>-1.0	9.9	>-1.0	9.9	>-1.0
06/17/86	1200	15.3	--	14.7	>-1.0	11.6	>-1.0	9.7	>-1.0	9.7	>-1.0	9.7	>-1.0
06/18/86	0	15.7	--	15.1	>-1.0	11.9	>-1.0	10.0	>-1.0	10.0	>-1.0	10.0	>-1.0
06/18/86	1200	15.7	--	15.0	>-1.0	11.7	>-1.0	9.8	>-1.0	9.8	>-1.0	9.8	>-1.0
06/19/86	0	16.0	--	15.4	>-1.0	12.0	>-1.0	10.0	>-1.0	10.0	>-1.0	10.0	>-1.0
06/19/86	1200	16.0	--	15.4	>-1.0	11.9	>-1.0	9.9	>-1.0	9.9	>-1.0	9.9	>-1.0
06/20/86	0	16.4	--	15.8	>-1.0	12.2	>-1.0	10.0	>-1.0	10.0	>-1.0	10.0	>-1.0
06/20/86	1200	16.3	--	15.7	>-1.0	12.0	>-1.0	10.0	>-1.0	10.0	>-1.0	10.0	>-1.0
06/21/86	0	16.5	--	15.9	>-1.0	12.3	>-1.0	10.2	>-1.0	10.2	>-1.0	10.2	>-1.0
06/21/86	1200	16.3	--	15.8	>-1.0	12.2	>-1.0	10.1	>-1.0	10.1	>-1.0	10.1	>-1.0
06/22/86	0	16.6	--	16.0	>-1.0	12.4	>-1.0	10.3	>-1.0	10.3	>-1.0	10.3	>-1.0
06/22/86	1200	16.4	--	15.9	>-1.0	12.3	>-1.0	10.1	>-1.0	10.1	>-1.0	10.1	>-1.0
06/23/86	0	16.7	--	16.2	>-1.0	12.6	>-1.0	10.4	>-1.0	10.4	>-1.0	10.4	>-1.0
06/23/86	1200	16.5	--	16.0	>-1.0	12.4	>-1.0	10.2	>-1.0	10.2	>-1.0	10.2	>-1.0
06/24/86	0	16.9	--	16.3	>-1.0	12.7	>-1.0	10.5	>-1.0	10.5	>-1.0	10.5	>-1.0
06/24/86	1200	16.7	--	16.2	>-1.0	12.5	>-1.0	10.3	>-1.0	10.3	>-1.0	10.3	>-1.0
06/25/86	0	17.1	--	16.5	>-1.0	12.8	>-1.0	10.6	>-1.0	10.6	>-1.0	10.6	>-1.0
06/25/86	1200	17.0	--	16.4	>-1.0	12.6	>-1.0	10.4	>-1.0	10.4	>-1.0	10.4	>-1.0
06/26/86	0	17.3	--	16.7	>-1.0	12.9	>-1.0	10.7	>-1.0	10.7	>-1.0	10.7	>-1.0
06/26/86	1200	17.0	--	16.5	>-1.0	12.8	>-1.0	10.5	>-1.0	10.5	>-1.0	10.5	>-1.0
06/27/86	0	17.3	--	16.7	>-1.0	13.1	>-1.0	10.8	>-1.0	10.8	>-1.0	10.8	>-1.0
06/27/86	1200	17.0	--	16.5	>-1.0	12.9	>-1.0	10.6	>-1.0	10.6	>-1.0	10.6	>-1.0
06/28/86	0	17.5	--	16.9	>-1.0	13.2	>-1.0	10.9	>-1.0	10.9	>-1.0	10.9	>-1.0
06/28/86	1200	17.3	--	16.8	>-1.0	13.0	>-1.0	10.7	>-1.0	10.7	>-1.0	10.7	>-1.0
06/29/86	0	17.5	--	17.0	>-1.0	13.3	>-1.0	10.9	>-1.0	10.9	>-1.0	10.9	>-1.0
06/29/86	1200	17.5	--	16.9	>-1.0	13.2	>-1.0	10.9	>-1.0	10.9	>-1.0	10.9	>-1.0
06/30/86	0	17.8	--	17.2	>-1.0	13.5	>-1.0	11.1	>-1.0	11.1	>-1.0	11.1	>-1.0
06/30/86	1200	17.6	--	17.1	>-1.0	13.3	>-1.0	11.0	>-1.0	11.0	>-1.0	11.0	>-1.0
07/01/86	0	17.9	--	17.3	>-1.0	13.6	>-1.0	11.2	>-1.0	11.2	>-1.0	11.2	>-1.0

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier											
Depth below land surface (meters)											
tcp#1			tcp#2			tcp#3			tcp#4		
0.6			0.9			1.5			2.1		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
07/01/86	1200	17.7	--	17.1	>-1.0	13.4	>-1.0	11.0	>-1.0	11.0	>-1.0
07/02/86	0	18.0	--	17.4	>-1.0	13.7	>-1.0	11.3	>-1.0	11.3	>-1.0
07/02/86	1200	17.8	--	17.2	>-1.0	13.5	>-1.0	11.0	>-1.0	11.0	>-1.0
07/03/86	0	18.1	--	17.5	>-1.0	13.7	>-1.0	11.3	>-1.0	11.3	>-1.0
07/03/86	1200	18.0	--	17.5	>-1.0	13.7	>-1.0	11.3	>-1.0	11.3	>-1.0
07/04/86	0	18.3	--	17.7	>-1.0	13.9	>-1.0	11.4	>-1.0	11.4	>-1.0
07/04/86	1200	18.2	--	17.6	>-1.0	13.8	>-1.0	11.3	>-1.0	11.3	>-1.0
07/05/86	0	18.4	--	17.8	>-1.0	14.0	>-1.0	11.6	>-1.0	11.6	>-1.0
07/05/86	1200	18.1	--	17.6	>-1.0	13.9	>-1.0	11.4	>-1.0	11.4	>-1.0
07/06/86	0	18.2	--	17.7	>-1.0	14.1	>-1.0	11.6	>-1.0	11.6	>-1.0
07/06/86	1200	17.8	--	17.4	>-1.0	13.9	>-1.0	11.5	>-1.0	11.5	>-1.0
07/07/86	0	17.8	--	17.5	>-1.0	14.1	>-1.0	11.7	>-1.0	11.7	>-1.0
07/07/86	1200	17.7	--	17.3	>-1.0	14.0	>-1.0	11.6	>-1.0	11.6	>-1.0
07/08/86	0	17.9	--	17.4	>-1.0	14.3	>-1.0	11.8	>-1.0	11.8	>-1.0
07/08/86	1200	17.6	--	17.2	>-1.0	14.0	>-1.0	11.7	>-1.0	11.7	>-1.0
07/09/86	0	17.9	--	17.4	>-1.0	14.3	>-1.0	11.9	>-1.0	11.9	>-1.0
07/09/86	1200	17.6	--	17.2	>-1.0	14.1	>-1.0	11.7	>-1.0	11.7	>-1.0
07/10/86	0	17.8	--	17.4	>-1.0	14.3	>-1.0	11.9	>-1.0	11.9	>-1.0
07/10/86	1200	17.6	--	17.2	>-1.0	14.1	>-1.0	11.8	>-1.0	11.8	>-1.0
07/11/86	0	17.7	--	17.3	>-1.0	14.3	>-1.0	12.0	>-1.0	12.0	>-1.0
07/11/86	1200	17.5	--	17.2	>-1.0	14.2	>-1.0	11.9	>-1.0	11.9	>-1.0
07/12/86	0	17.7	--	17.3	>-1.0	14.4	>-1.0	12.1	>-1.0	12.1	>-1.0
07/12/86	1200	17.5	--	17.1	>-1.0	14.2	>-1.0	11.9	>-1.0	11.9	>-1.0
07/13/86	0	17.8	--	17.4	>-1.0	14.5	>-1.0	12.2	>-1.0	12.2	>-1.0
07/13/86	1200	17.5	--	17.1	>-1.0	14.2	>-1.0	12.0	>-1.0	12.0	>-1.0
07/14/86	0	17.8	--	17.4	>-1.0	14.5	>-1.0	12.2	>-1.0	12.2	>-1.0
07/14/86	1200	17.6	--	17.2	>-1.0	14.2	>-1.0	12.0	>-1.0	12.0	>-1.0
07/15/86	0	18.0	--	17.5	>-1.0	14.5	>-1.0	12.3	>-1.0	12.3	>-1.0
07/15/86	1200	17.9	--	17.4	>-1.0	14.3	>-1.0	12.1	>-1.0	12.1	>-1.0
07/16/86	0	18.2	--	17.7	>-1.0	14.5	>-1.0	12.3	>-1.0	12.3	>-1.0
07/16/86	1200	18.1	--	17.6	>-1.0	14.4	>-1.0	12.2	>-1.0	12.2	>-1.0
07/17/86	0	18.4	--	17.9	>-1.0	14.6	>-1.0	12.4	>-1.0	12.4	>-1.0
07/17/86	1200	18.2	--	17.7	>-1.0	14.5	>-1.0	12.2	>-1.0	12.2	>-1.0
07/18/86	0	18.4	--	17.9	>-1.0	14.7	>-1.0	12.5	>-1.0	12.5	>-1.0
07/18/86	1200	18.2	--	17.7	>-1.0	14.6	>-1.0	12.4	>-1.0	12.4	>-1.0
07/19/86	0	18.4	--	17.9	>-1.0	14.8	>-1.0	12.6	>-1.0	12.6	>-1.0

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#1 0.6			tcp#2 0.9			tcp#3 1.5			tcp#4 2.1		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
07/19/86	1200	17.8	--	17.5	>-1.0	14.4		>-1.0	12.2		12.2	-1.1
07/20/86	0	18.5	--	18.0	>-1.0	14.9		>-1.0	12.6		12.6	-1.1
07/20/86	1200	18.1	--	17.7	>-1.0	14.5		>-1.0	12.3		12.3	-1.4
07/21/86	0	18.7	--	18.2	>-1.0	14.9		>-1.0	12.7		12.7	-1.3
07/21/86	1200	18.5	--	18.0	>-1.0	14.7		>-1.0	12.4		12.4	-1.4
07/22/86	0	18.9	--	18.3	>-1.0	14.9		>-1.0	12.7		12.7	-1.4
07/22/86	1200	18.7	--	18.2	>-1.0	14.7		>-1.0	12.5		12.5	-1.5
07/23/86	0	19.1	--	18.5	>-1.0	15.0		>-1.0	12.7		12.7	-1.5
07/23/86	1200	18.8	--	18.4	>-1.0	14.8		>-1.0	12.6		12.6	-1.4
07/24/86	0	18.9	--	18.5	>-1.0	15.1		>-1.0	12.8		12.8	-1.3
07/24/86	1200	18.6	--	18.3	>-1.0	15.0		>-1.0	12.7		12.7	-1.4
07/25/86	0	18.6	--	18.3	>-1.0	15.2		>-1.0	12.9		12.9	-1.4
07/25/86	1200	18.4	--	18.1	>-1.0	15.1		>-1.0	12.7		12.7	-1.6
07/26/86	0	18.5	--	18.2	>-1.0	15.3		>-1.0	12.9		12.9	-1.3
07/26/86	1200	18.3	--	17.9	>-1.0	15.0		>-1.0	12.8		12.8	-1.4
07/27/86	0	18.5	--	18.1	>-1.0	15.3		>-1.0	13.0		13.0	-1.4
07/27/86	1200	18.3	--	18.0	>-1.0	15.1		>-1.0	12.9		12.9	-1.4
07/28/86	0	18.5	--	18.1	>-1.0	15.3		>-1.0	13.1		13.1	-1.4
07/28/86	1200	18.1	--	17.8	>-1.0	15.1		>-1.0	12.9		12.9	-1.2
07/29/86	0	18.2	--	17.9	>-1.0	15.3		>-1.0	13.1		13.1	-1.6
07/29/86	1200	17.9	--	17.7	>-1.0	15.0		>-1.0	12.9		12.9	-1.7
07/30/86	0	18.3	--	18.0	>-1.0	15.3		>-1.0	13.2		13.2	-1.4
07/30/86	1200	18.2	--	17.9	>-1.0	15.1		>-1.0	13.0		13.0	-1.6
07/31/86	0	18.4	--	18.0	>-1.0	15.3		>-1.0	13.2		13.2	-1.5
07/31/86	1200	18.2	--	17.8	>-1.0	15.1		>-1.0	13.0		13.0	-1.5
08/01/86	0	18.6	--	18.2	>-1.0	15.4		>-1.0	13.3		13.3	-1.5
08/01/86	1200	18.3	--	17.9	>-1.0	15.1		>-1.0	13.0		13.0	-1.6
08/02/86	0	18.8	--	18.3	>-1.0	15.4		>-1.0	13.4		13.4	-1.6
08/02/86	1200	18.6	--	18.1	>-1.0	15.2		>-1.0	13.1		13.1	-1.5
08/03/86	0	18.9	--	18.4	>-1.0	15.4		>-1.0	13.3		13.3	-1.6
08/03/86	1200	18.8	--	18.4	>-1.0	15.2		>-1.0	13.1		13.1	-1.5
08/04/86	0	19.3	--	18.7	>-1.0	15.5		>-1.0	13.4		13.4	-1.4
08/04/86	1200	19.1	--	18.6	>-1.0	15.3		>-1.0	13.2		13.2	-1.6
08/05/86	0	19.6	--	19.0	>-1.0	15.6		>-1.0	13.5		13.5	-1.5
08/05/86	1200	19.2	--	18.7	>-1.0	15.3		>-1.0	13.1		13.1	-1.6
08/06/86	0	19.7	--	19.1	>-1.0	15.7		>-1.0	13.5		13.5	-1.6

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#1 0.6			tcp#2 0.9			tcp#3 1.5			tcp#4 2.1		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
08/06/86	1200	19.4	--	18.9	>-1.0	15.5	15.5	>-1.0	13.3	>-1.0	13.3	-1.6
08/07/86	0	19.7	--	19.2	>-1.0	15.8	15.8	>-1.0	13.5	>-1.0	13.5	-1.7
08/07/86	1200	19.6	--	19.0	>-1.0	15.6	15.6	>-1.0	13.3	>-1.0	13.3	-1.7
08/08/86	0	19.9	--	19.3	>-1.0	15.8	15.8	>-1.0	13.6	>-1.0	13.6	-1.4
08/08/86	1200	19.7	--	19.2	>-1.0	15.7	15.7	>-1.0	13.4	>-1.0	13.4	-1.7
08/09/86	0	20.0	--	19.4	>-1.0	16.0	16.0	>-1.0	13.7	>-1.0	13.7	-1.7
08/09/86	1200	19.7	--	19.2	>-1.0	15.8	15.8	>-1.0	13.5	>-1.0	13.5	-1.7
08/10/86	0	20.1	--	19.5	>-1.0	16.1	16.1	>-1.0	13.7	>-1.0	13.7	-1.7
08/10/86	1200	19.8	--	19.3	>-1.0	15.8	15.8	>-1.0	13.5	>-1.0	13.5	-1.6
08/11/86	0	20.0	--	19.5	>-1.0	16.1	16.1	>-1.0	13.8	>-1.0	13.8	-1.6
08/11/86	1200	19.8	--	19.3	>-1.0	15.9	15.9	>-1.0	13.6	>-1.0	13.6	-1.9
08/12/86	0	20.1	--	19.5	>-1.0	16.1	16.1	>-1.0	13.8	>-1.0	13.8	-1.8
08/12/86	1200	19.9	--	19.4	>-1.0	16.0	16.0	>-1.0	13.6	>-1.0	13.6	-2.0
08/13/86	0	20.2	--	19.6	>-1.0	16.2	16.2	>-1.0	13.9	>-1.0	13.9	-1.9
08/13/86	1200	19.9	--	19.4	>-1.0	16.0	16.0	>-1.0	13.7	>-1.0	13.7	-1.9
08/14/86	0	20.2	--	19.6	>-1.0	16.3	16.3	>-1.0	14.0	>-1.0	14.0	-1.7
08/14/86	1200	19.8	--	19.3	>-1.0	16.0	16.0	>-1.0	13.7	>-1.0	13.7	-1.8
08/15/86	0	20.1	--	19.6	>-1.0	16.4	16.4	>-1.0	14.0	>-1.0	14.0	-1.6
08/15/86	1200	19.8	--	19.3	>-1.0	16.1	16.1	>-1.0	13.8	>-1.0	13.8	-1.9
08/16/86	0	20.2	--	19.6	>-1.0	16.4	16.4	>-1.0	14.1	>-1.0	14.1	-1.8
08/16/86	1200	19.8	--	19.4	>-1.0	16.2	16.2	>-1.0	13.9	>-1.0	13.9	-1.9
08/17/86	0	20.2	--	19.6	>-1.0	16.4	16.4	>-1.0	14.1	>-1.0	14.1	-2.0
08/17/86	1200	19.9	--	19.4	>-1.0	16.2	16.2	>-1.0	13.9	>-1.0	13.9	-1.9
08/18/86	0	20.2	--	19.7	>-1.0	16.5	16.5	>-1.0	14.2	>-1.0	14.2	-1.9
08/18/86	1200	19.9	--	19.4	>-1.0	16.2	16.2	>-1.0	14.0	>-1.0	14.0	-2.1
08/19/86	0	20.3	--	19.8	>-1.0	16.6	16.6	>-1.0	14.3	>-1.0	14.3	-2.0
08/19/86	1200	20.2	--	19.6	>-1.0	16.4	16.4	>-1.0	14.1	>-1.0	14.1	-2.0
08/20/86	0	20.5	--	19.9	>-1.0	16.6	16.6	>-1.0	14.3	>-1.0	14.3	-1.8
08/20/86	1200	20.0	--	19.6	>-1.0	16.4	16.4	>-1.0	14.1	>-1.0	14.1	-2.0
08/21/86	0	20.1	--	19.7	>-1.0	16.6	16.6	>-1.0	14.3	>-1.0	14.3	-1.8
08/21/86	1200	20.0	--	19.5	>-1.0	16.5	16.5	>-1.0	14.2	>-1.0	14.2	-1.9
08/22/86	0	20.2	--	19.7	>-1.0	16.7	16.7	>-1.0	14.4	>-1.0	14.4	-1.8
08/22/86	1200	19.9	--	19.5	>-1.0	16.5	16.5	>-1.0	14.2	>-1.0	14.2	-2.2
08/23/86	0	20.1	--	19.6	>-1.0	16.7	16.7	>-1.0	14.5	>-1.0	14.5	-1.9
08/23/86	1200	19.9	--	19.5	>-1.0	16.6	16.6	>-1.0	14.3	>-1.0	14.3	-2.1
08/24/86	0	20.0	--	19.6	>-1.0	16.8	16.8	>-1.0	14.5	>-1.0	14.5	-2.2

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)		tcp#1 0.6			tcp#2 0.9			tcp#3 1.5			tcp#4 2.1		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
08/24/86	1200	19.6	--	19.2	>-1.0	16.5	>-1.0	14.3	>-1.0	14.3	>-1.0	14.3	-2.0
08/25/86	0	19.7	--	19.3	>-1.0	16.7	>-1.0	14.5	>-1.0	14.5	>-1.0	14.5	-2.2
08/25/86	1200	19.4	--	19.1	>-1.0	16.5	>-1.0	14.3	>-1.0	14.3	>-1.0	14.3	-2.1
08/26/86	0	19.7	--	19.3	>-1.0	16.7	>-1.0	14.5	>-1.0	14.5	>-1.0	14.5	-2.1
08/26/86	1200	19.4	--	19.1	>-1.0	16.5	>-1.0	14.3	>-1.0	14.3	>-1.0	14.3	-2.1
08/27/86	0	19.7	--	19.3	>-1.0	16.7	>-1.0	14.6	>-1.0	14.6	>-1.0	14.6	-2.0
08/27/86	1200	19.4	--	19.1	>-1.0	16.5	>-1.0	14.4	>-1.0	14.4	>-1.0	14.4	-2.1
08/28/86	0	19.7	--	19.2	>-1.0	16.7	>-1.0	14.6	>-1.0	14.6	>-1.0	14.6	-2.1
08/28/86	1200	19.4	--	19.1	>-1.0	16.5	>-1.0	14.4	>-1.0	14.4	>-1.0	14.4	-2.3
08/29/86	0	19.7	--	19.2	>-1.0	16.6	>-1.0	14.6	>-1.0	14.6	>-1.0	14.6	-2.2
08/29/86	1200	19.6	--	19.2	>-1.0	16.5	>-1.0	14.5	>-1.0	14.5	>-1.0	14.5	-2.4
08/30/86	0	19.9	--	19.4	>-1.0	16.7	>-1.0	14.6	>-1.0	14.6	>-1.0	14.6	-2.2
08/30/86	1200	19.9	--	19.4	>-1.0	16.6	>-1.0	14.7	>-1.0	14.7	>-1.0	14.7	-2.2
08/31/86	0	19.8	--	19.4	>-1.0	16.7	>-1.0	14.7	>-1.0	14.7	>-1.0	14.7	-2.1
08/31/86	1200	19.4	--	19.1	>-1.0	16.6	>-1.0	14.6	>-1.0	14.6	>-1.0	14.6	-2.1
09/01/86	0	19.3	--	19.0	>-1.0	16.7	>-1.0	14.7	>-1.0	14.7	>-1.0	14.7	-2.1
09/01/86	1200	18.8	--	18.6	>-1.0	16.5	>-1.0	14.5	>-1.0	14.5	>-1.0	14.5	-2.3
09/02/86	0	18.9	--	18.7	>-1.0	16.7	>-1.0	14.7	>-1.0	14.7	>-1.0	14.7	-2.3
09/02/86	1200	18.5	--	18.4	>-1.0	16.5	>-1.0	14.6	>-1.0	14.6	>-1.0	14.6	-2.4
09/03/86	0	18.7	--	18.5	>-1.0	16.7	>-1.0	14.8	>-1.0	14.8	>-1.0	14.8	-2.3
09/03/86	1200	18.4	--	18.2	>-1.0	16.4	>-1.0	14.6	>-1.0	14.6	>-1.0	14.6	-2.2
09/04/86	0	18.6	--	18.3	>-1.0	16.6	>-1.0	14.8	>-1.0	14.8	>-1.0	14.8	-2.3
09/04/86	1200	18.3	--	18.1	>-1.0	16.3	>-1.0	14.5	>-1.0	14.5	>-1.0	14.5	-2.3
09/05/86	0	18.5	--	18.2	>-1.0	16.5	>-1.0	14.8	>-1.0	14.8	>-1.0	14.8	-2.2
09/05/86	1200	18.2	--	17.9	>-1.0	16.2	>-1.0	14.5	>-1.0	14.5	>-1.0	14.5	-2.1
09/06/86	0	18.5	--	18.2	>-1.0	16.5	>-1.0	14.8	>-1.0	14.8	>-1.0	14.8	-2.1
09/06/86	1200	18.2	--	18.0	>-1.0	16.3	>-1.0	14.6	>-1.0	14.6	>-1.0	14.6	-2.4
09/07/86	0	18.5	--	18.2	>-1.0	16.4	>-1.0	14.8	>-1.0	14.8	>-1.0	14.8	-2.3
09/07/86	1200	18.3	--	18.0	>-1.0	16.2	>-1.0	14.6	>-1.0	14.6	>-1.0	14.6	-2.2
09/08/86	0	18.4	--	18.1	>-1.0	16.4	>-1.0	14.8	>-1.0	14.8	>-1.0	14.8	-2.4
09/08/86	1200	18.0	--	17.8	>-1.0	16.1	>-1.0	14.6	>-1.0	14.6	>-1.0	14.6	-2.2
09/09/86	0	18.2	--	18.0	>-1.0	16.4	>-1.0	14.8	>-1.0	14.8	>-1.0	14.8	-2.2
09/09/86	1200	18.0	--	17.8	>-1.0	16.2	>-1.0	14.7	>-1.0	14.7	>-1.0	14.7	-2.2
09/10/86	0	17.9	--	17.7	>-1.0	16.2	>-1.0	14.7	>-1.0	14.7	>-1.0	14.7	-2.3
09/10/86	1200	17.6	--	17.5	>-1.0	16.1	>-1.0	14.6	>-1.0	14.6	>-1.0	14.6	-2.3
09/11/86	0	17.4	--	17.4	>-1.0	16.3	>-1.0	14.8	>-1.0	14.8	>-1.0	14.8	-2.2

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#1 0.6			tcp#2 0.9			tcp#3 1.5			tcp#4 2.1		
	Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
	09/11/86	1200	17.0	--	17.0	>-1.0	16.0	>-1.0	14.6	>-1.0	14.6	-2.2
	09/12/86	0	17.0	--	17.0	>-1.0	16.2	>-1.0	14.8	>-1.0	14.8	-2.4
	09/12/86	1200	16.6	--	16.6	>-1.0	15.9	>-1.0	14.6	>-1.0	14.6	-2.4
	09/13/86	0	16.7	--	16.7	>-1.0	16.1	>-1.0	14.7	>-1.0	14.7	-2.4
	09/13/86	1200	16.5	--	16.4	>-1.0	15.8	>-1.0	14.6	>-1.0	14.6	-2.4
	09/14/86	0	16.6	--	16.5	>-1.0	16.0	>-1.0	14.7	>-1.0	14.7	-2.2
	09/14/86	1200	16.5	--	16.4	>-1.0	15.8	>-1.0	14.6	>-1.0	14.6	-2.3
	09/15/86	0	16.6	--	16.5	>-1.0	16.3	>-1.0	14.7	>-1.0	14.7	-2.3
	09/15/86	1200	16.3	--	16.3	>-1.0	15.6	>-1.0	14.6	>-1.0	14.6	-2.3
	09/16/86	0	16.4	--	16.3	>-1.0	15.8	>-1.0	14.7	>-1.0	14.7	-2.2
	09/16/86	1200	16.1	--	16.0	>-1.0	15.6	>-1.0	14.5	>-1.0	14.5	-2.2
	09/17/86	0	16.0	--	16.0	>-1.0	15.6	>-1.0	14.6	>-1.0	14.6	-2.1
	09/17/86	1200	15.7	--	15.7	>-1.0	15.5	>-1.0	14.5	>-1.0	14.5	-2.2
	09/18/86	0	15.6	--	15.7	>-1.0	15.5	>-1.0	14.5	>-1.0	14.5	-2.2
	09/18/86	1200	15.4	--	15.4	>-1.0	15.4	>-1.0	14.5	>-1.0	14.5	-2.4
	09/19/86	0	15.3	--	15.3	>-1.0	15.4	>-1.0	14.4	>-1.0	14.4	-2.2
	09/19/86	1200	15.1	--	15.2	>-1.0	15.3	>-1.0	14.4	>-1.0	14.4	-2.2
	09/20/86	0	14.9	--	15.1	>-1.0	15.3	>-1.0	14.5	>-1.0	14.5	-2.1
	09/20/86	1200	14.6	--	14.8	>-1.0	15.2	>-1.0	14.4	>-1.0	14.4	-2.2
	09/21/86	0	14.4	--	14.6	>-1.0	15.1	>-1.0	14.4	>-1.0	14.4	-1.9
	09/21/86	1200	14.0	--	14.2	>-1.0	14.9	>-1.0	14.3	>-1.0	14.3	-2.3
	09/22/86	0	13.8	--	14.0	>-1.0	14.9	>-1.0	14.3	>-1.0	14.3	-2.3
	09/22/86	1200	13.5	--	13.7	>-1.0	14.8	>-1.0	14.3	>-1.0	14.3	-2.4
	09/23/86	0	13.5	--	13.7	>-1.0	14.8	>-1.0	14.3	>-1.0	14.3	-2.5
	09/23/86	1200	13.2	--	13.4	>-1.0	14.6	>-1.0	14.2	>-1.0	14.2	-2.4
	09/24/86	0	13.4	--	13.5	>-1.0	14.6	>-1.0	14.3	>-1.0	14.3	-2.3
	09/24/86	1200	13.2	--	13.3	>-1.0	14.4	>-1.0	14.2	>-1.0	14.2	-2.3
	09/25/86	0	13.3	--	13.3	>-1.0	14.4	>-1.0	14.1	>-1.0	14.1	-2.2
	09/25/86	1200	13.2	--	13.3	>-1.0	14.2	>-1.0	14.0	>-1.0	14.0	-2.3
	09/26/86	0	13.2	--	13.3	>-1.0	14.3	>-1.0	14.1	>-1.0	14.1	-2.4
	09/26/86	1200	13.1	--	13.2	>-1.0	14.2	>-1.0	14.0	>-1.0	14.0	-2.4
	09/27/86	0	13.0	--	13.1	>-1.0	14.1	>-1.0	14.0	>-1.0	14.0	-2.2
	09/27/86	1200	12.7	--	12.9	>-1.0	14.0	>-1.0	14.0	>-1.0	14.0	-2.2
	09/28/86	0	12.5	--	12.7	>-1.0	13.9	>-1.0	13.9	>-1.0	13.9	-2.2
	09/28/86	1200	12.3	--	12.5	>-1.0	13.9	>-1.0	13.8	>-1.0	13.8	-2.2
	09/29/86	0	12.2	--	12.5	>-1.0	13.9	>-1.0	13.9	>-1.0	13.9	-2.4

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#1 0.6			tcp#2 0.9			tcp#3 1.5			tcp#4 2.1		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
09/29/86	1200	12.0	--	12.2	>-1.0	13.7	13.7	>-1.0	13.7	>-1.0	13.7	-2.2
09/30/86	0	11.9	--	12.2	>-1.0	13.7	13.7	>-1.0	13.7	>-1.0	13.7	-2.2
09/30/86	1200	11.8	--	12.0	>-1.0	13.6	13.6	>-1.0	13.7	>-1.0	13.7	-2.0
10/01/86	0	11.8	--	12.0	>-1.0	13.5	13.5	>-1.0	13.7	>-1.0	13.7	-2.3
10/01/86	1200	11.6	--	11.8	>-1.0	13.3	13.3	>-1.0	13.5	>-1.0	13.5	-2.3
10/02/86	0	11.6	--	11.8	>-1.0	13.3	13.3	>-1.0	13.5	>-1.0	13.5	-2.3
10/02/86	1200	11.5	--	11.7	>-1.0	13.3	13.3	>-1.0	13.5	>-1.0	13.5	-2.4
10/03/86	0	11.4	--	11.6	>-1.0	13.2	13.2	>-1.0	13.5	>-1.0	13.5	-2.3
10/03/86	1200	11.2	--	11.4	>-1.0	13.1	13.1	>-1.0	13.4	>-1.0	13.4	-2.2
10/04/86	0	11.2	--	11.4	>-1.0	13.1	13.1	>-1.0	13.4	>-1.0	13.4	-2.1
10/04/86	1200	11.0	--	11.2	>-1.0	12.9	12.9	>-1.0	13.3	>-1.0	13.3	-2.1
10/05/86	0	11.0	--	11.2	>-1.0	13.0	13.0	>-1.0	13.3	>-1.0	13.3	-2.0
10/05/86	1200	10.9	--	11.1	>-1.0	12.8	12.8	>-1.0	13.2	>-1.0	13.2	-2.1
10/06/86	0	11.1	--	11.2	>-1.0	12.9	12.9	>-1.0	13.3	>-1.0	13.3	-1.8
10/06/86	1200	10.8	--	11.0	>-1.0	12.5	12.5	>-1.0	13.0	>-1.0	13.0	-2.0
10/07/86	0	11.1	--	11.2	>-1.0	12.7	12.7	>-1.0	13.2	>-1.0	13.2	-1.9
10/07/86	1200	11.0	--	11.1	>-1.0	12.5	12.5	>-1.0	13.0	>-1.0	13.0	-1.9
10/08/86	0	11.2	--	11.3	>-1.0	12.6	12.6	>-1.0	13.1	>-1.0	13.1	-1.8
10/08/86	1200	11.2	--	11.2	>-1.0	12.4	12.4	>-1.0	12.9	>-1.0	12.9	-1.9
10/09/86	0	11.4	--	11.4	>-1.0	12.5	12.5	>-1.0	13.0	>-1.0	13.0	-2.1
10/09/86	1200	11.1	--	11.2	>-1.0	12.2	12.2	>-1.0	12.7	>-1.0	12.7	-1.9
10/10/86	0	11.4	--	11.4	>-1.0	12.5	12.5	>-1.0	12.9	>-1.0	12.9	-1.9
10/10/86	1200	11.3	--	11.3	>-1.0	12.3	12.3	>-1.0	12.8	>-1.0	12.8	-1.9
10/11/86	0	11.3	--	11.4	>-1.0	12.4	12.4	>-1.0	12.8	>-1.0	12.8	-1.8
10/11/86	1200	11.1	--	11.2	>-1.0	12.3	12.3	>-1.0	12.7	>-1.0	12.7	-1.9
10/12/86	0	11.0	--	11.2	>-1.0	12.2	12.2	>-1.0	12.7	>-1.0	12.7	-1.8
10/12/86	1200	10.6	--	10.9	>-1.0	12.2	12.2	>-1.0	12.7	>-1.0	12.7	-1.9
10/13/86	0	10.4	--	10.7	>-1.0	12.1	12.1	>-1.0	12.6	>-1.0	12.6	-1.7
10/13/86	1200	10.1	--	10.4	>-1.0	12.1	12.1	>-1.0	12.6	>-1.0	12.6	-1.7
10/14/86	0	10.0	--	10.3	>-1.0	12.2	12.2	>-1.0	12.6	>-1.0	12.6	-1.9
10/14/86	1200	9.8	--	10.1	>-1.0	12.0	12.0	>-1.0	12.6	>-1.0	12.6	-1.6
10/15/86	0	9.7	--	10.1	>-1.0	12.0	12.0	>-1.0	12.6	>-1.0	12.6	-2.0
10/15/86	1200	9.6	--	9.9	>-1.0	11.8	11.8	>-1.0	12.5	>-1.0	12.5	-1.8
10/16/86	0	9.6	--	9.9	>-1.0	11.9	11.9	>-1.0	12.5	>-1.0	12.5	-1.8
10/16/86	1200	9.4	--	9.7	>-1.0	11.7	11.7	>-1.0	12.4	>-1.0	12.4	-1.8
10/17/86	0	9.4	--	9.7	>-1.0	11.8	11.8	>-1.0	12.4	>-1.0	12.4	-1.9

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#1 0.6			tcp#2 0.9			tcp#3 1.5			tcp#4 2.1		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil-water potential (bars)
10/17/86	1200	9.3	--	9.5	>-1.0	11.6	11.6	>-1.0	12.3	12.3	>-1.0	-1.5
10/18/86	0	9.3	--	9.6	>-1.0	11.6	11.6	>-1.0	12.3	12.3	>-1.0	-1.8
10/18/86	1200	9.3	--	9.5	>-1.0	11.5	11.5	>-1.0	12.3	12.3	>-1.0	-1.8
10/19/86	0	9.4	--	9.5	>-1.0	11.5	11.5	>-1.0	12.2	12.2	>-1.0	-1.8
10/19/86	1200	9.4	--	9.6	>-1.0	11.4	11.4	>-1.0	12.2	12.2	>-1.0	-1.7
10/20/86	0	9.4	--	9.6	>-1.0	11.4	11.4	>-1.0	12.2	12.2	>-1.0	-1.9
10/20/86	1200	9.3	--	9.5	>-1.0	11.3	11.3	>-1.0	12.1	12.1	>-1.0	-1.5
10/21/86	0	9.5	--	9.6	>-1.0	11.3	11.3	>-1.0	12.1	12.1	>-1.0	-1.7
10/21/86	1200	9.4	--	9.5	>-1.0	11.2	11.2	>-1.0	12.0	12.0	>-1.0	-1.8
10/22/86	0	9.7	--	9.7	>-1.0	11.2	11.2	>-1.0	12.0	12.0	>-1.0	-1.5
10/22/86	1200	9.6	--	9.7	>-1.0	11.1	11.1	>-1.0	11.9	11.9	>-1.0	-1.5
10/23/86	0	9.7	--	9.8	>-1.0	11.2	11.2	>-1.0	12.0	12.0	>-1.0	-1.6
10/23/86	1200	9.6	--	9.7	>-1.0	11.1	11.1	>-1.0	11.8	11.8	>-1.0	-1.7
10/24/86	0	9.5	--	9.7	>-1.0	11.1	11.1	>-1.0	11.9	11.9	>-1.0	-1.6
10/25/86	0	9.3	--	9.5	>-1.0	11.1	11.1	>-1.0	11.8	11.8	>-1.0	-1.6
10/25/86	1200	9.2	--	9.4	>-1.0	10.9	10.9	>-1.0	11.7	11.7	>-1.0	-1.5
10/26/86	0	9.2	--	9.4	>-1.0	11.0	11.0	>-1.0	11.8	11.8	>-1.0	-1.6
10/26/86	1200	9.1	--	9.3	>-1.0	10.9	10.9	>-1.0	11.7	11.7	>-1.0	-1.4
10/27/86	0	9.1	--	9.3	>-1.0	10.9	10.9	>-1.0	11.7	11.7	>-1.0	-1.6
10/27/86	1200	9.0	--	9.2	>-1.0	10.8	10.8	>-1.0	11.6	11.6	>-1.0	-1.7
10/28/86	0	9.0	--	9.2	>-1.0	10.8	10.8	>-1.0	11.6	11.6	>-1.0	-1.3
10/28/86	1200	8.9	--	9.1	>-1.0	10.8	10.8	>-1.0	11.6	11.6	>-1.0	-1.3
10/29/86	0	8.9	--	9.1	>-1.0	10.8	10.8	>-1.0	11.6	11.6	>-1.0	-1.4
10/29/86	1200	8.8	--	9.0	>-1.0	10.7	10.7	>-1.0	11.5	11.5	>-1.0	-1.3
10/30/86	0	8.7	--	8.9	>-1.0	10.7	10.7	>-1.0	11.5	11.5	>-1.0	-1.4
10/30/86	1200	8.6	--	8.8	>-1.0	10.6	10.6	>-1.0	11.4	11.4	>-1.0	-1.2
10/31/86	0	8.7	--	8.9	>-1.0	10.6	10.6	>-1.0	11.5	11.5	>-1.0	-1.4
10/31/86	1200	8.6	--	8.7	>-1.0	10.5	10.5	>-1.0	11.4	11.4	>-1.0	-1.3
11/01/86	0	8.4	--	8.6	>-1.0	10.5	10.5	>-1.0	11.4	11.4	>-1.0	-1.3
11/01/86	1200	8.3	--	8.5	>-1.0	10.5	10.5	>-1.0	11.4	11.4	>-1.0	-1.3
11/02/86	0	8.1	--	8.4	>-1.0	10.5	10.5	>-1.0	11.3	11.3	>-1.0	-1.3
11/02/86	1200	7.8	--	8.2	>-1.0	10.3	10.3	>-1.0	11.2	11.2	>-1.0	-1.3
11/03/86	0	7.7	--	8.0	>-1.0	10.4	10.4	>-1.0	11.3	11.3	>-1.0	-1.3
11/03/86	1200	7.5	--	7.8	>-1.0	10.3	10.3	>-1.0	11.2	11.2	>-1.0	-1.3
11/04/86	0	7.3	--	7.7	>-1.0	10.2	10.2	>-1.0	11.2	11.2	>-1.0	-1.5
11/04/86	1200	7.2	--	7.5	>-1.0	10.1	10.1	>-1.0	11.1	11.1	>-1.0	-1.4

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#1 0.6			tcp#2 0.9			tcp#3 1.5			tcp#4 2.1		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
11/05/86	0	7.1	--	7.5	>-1.0	10.1	11.1	>-1.0	11.1	>-1.0	11.1	>-1.0
11/05/86	1200	7.0	--	7.3	>-1.0	10.0	11.0	>-1.0	11.0	>-1.0	11.0	>-1.0
11/06/86	0	6.9	--	7.3	>-1.0	9.9	11.0	>-1.0	11.0	>-1.0	11.0	>-1.0
11/06/86	1200	6.9	--	7.2	>-1.0	9.8	11.0	>-1.0	11.0	>-1.0	11.0	>-1.0
11/07/86	0	6.9	--	7.2	>-1.0	9.8	10.9	>-1.0	10.9	>-1.0	10.9	>-1.0
11/07/86	1200	6.9	--	7.2	>-1.0	9.7	10.9	>-1.0	10.9	>-1.0	10.9	>-1.0
11/08/86	0	6.8	--	7.1	>-1.0	9.7	10.9	>-1.0	10.9	>-1.0	10.9	>-1.0
11/08/86	1200	6.6	--	7.0	>-1.0	9.6	10.9	>-1.0	10.9	>-1.0	10.9	>-1.0
11/09/86	0	6.6	--	6.9	>-1.0	9.6	10.8	>-1.0	10.8	>-1.0	10.8	>-1.0
11/09/86	1200	6.5	--	6.8	>-1.0	9.5	10.8	>-1.0	10.8	>-1.0	10.8	>-1.0
11/10/86	0	6.2	--	6.6	>-1.0	9.4	10.7	>-1.0	10.7	>-1.0	10.7	>-1.0
11/10/86	1200	6.1	--	6.5	>-1.0	9.3	10.7	>-1.0	10.7	>-1.0	10.7	>-1.0
11/11/86	0	6.0	--	6.4	>-1.0	9.3	10.6	>-1.0	10.6	>-1.0	10.6	>-1.0
11/11/86	1200	5.8	--	6.2	>-1.0	9.3	10.6	>-1.0	10.6	>-1.0	10.6	>-1.0
11/12/86	0	5.6	--	6.0	>-1.0	9.2	10.5	>-1.0	10.5	>-1.0	10.5	>-1.0
11/12/86	1200	5.3	--	5.8	>-1.0	9.1	10.4	>-1.0	10.4	>-1.0	10.4	>-1.0
11/13/86	0	5.3	--	5.8	>-1.0	9.1	10.3	>-1.0	10.3	>-1.0	10.3	>-1.0
11/13/86	1200	5.1	--	5.5	>-1.0	8.9	10.3	>-1.0	10.3	>-1.0	10.3	>-1.0
11/14/86	0	5.0	--	5.4	>-1.0	8.9	10.4	>-1.0	10.4	>-1.0	10.4	>-1.0
11/14/86	1200	4.8	--	5.3	>-1.0	8.8	10.3	>-1.0	10.3	>-1.0	10.3	>-1.0
11/15/86	0	4.7	--	5.2	>-1.0	8.7	10.3	>-1.0	10.3	>-1.0	10.3	>-1.0
11/15/86	1200	4.5	--	5.0	>-1.0	8.5	10.2	>-1.0	10.2	>-1.0	10.2	>-1.0
11/16/86	0	4.4	--	4.9	>-1.0	8.5	10.1	>-1.0	10.1	>-1.0	10.1	>-1.0
11/16/86	1200	4.4	--	4.9	>-1.0	8.5	10.1	>-1.0	10.1	>-1.0	10.1	>-1.0
11/17/86	0	4.4	--	4.8	>-1.0	8.3	10.0	>-1.0	10.0	>-1.0	10.0	>-1.0
11/17/86	1200	4.4	--	4.7	>-1.0	8.3	10.0	>-1.0	10.0	>-1.0	10.0	>-1.0
11/18/86	0	4.5	--	4.8	>-1.0	8.2	9.9	>-1.0	9.9	>-1.0	9.9	>-1.0
11/18/86	1200	4.4	--	4.8	>-1.0	8.1	9.9	>-1.0	9.9	>-1.0	9.9	>-1.0
11/19/86	0	4.5	--	4.8	>-1.0	8.1	9.8	>-1.0	9.8	>-1.0	9.8	>-1.0
11/19/86	1200	4.4	--	4.8	>-1.0	8.0	9.8	>-1.0	9.8	>-1.0	9.8	>-1.0
11/20/86	0	4.5	--	4.8	>-1.0	8.0	9.7	>-1.0	9.7	>-1.0	9.7	>-1.0
11/20/86	1200	4.5	--	4.8	>-1.0	7.9	9.7	>-1.0	9.7	>-1.0	9.7	>-1.0
11/21/86	0	4.5	--	4.8	>-1.0	7.9	9.6	>-1.0	9.6	>-1.0	9.6	>-1.0
11/21/86	1200	4.5	--	4.8	>-1.0	7.8	9.5	>-1.0	9.5	>-1.0	9.5	>-1.0
11/22/86	0	4.5	--	4.8	>-1.0	7.8	9.5	>-1.0	9.5	>-1.0	9.5	>-1.0
11/22/86	1200	4.6	--	4.8	>-1.0	7.8	9.5	>-1.0	9.5	>-1.0	9.5	>-1.0

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier		tcp#1			tcp#2			tcp#3			tcp#4		
Depth below land surface (meters)		0.6			0.9			1.5			2.1		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
11/23/86	0	4.6	--	4.8	--	4.8	--	7.7	--	7.7	--	9.5	--
11/23/86	1200	4.4	--	4.8	--	4.8	--	7.7	--	7.7	--	9.5	--
11/24/86	0	4.4	--	4.7	--	4.7	--	7.7	--	7.7	--	9.4	--
11/24/86	1200	4.3	--	4.6	--	4.6	--	7.6	--	7.6	--	9.4	--
11/25/86	0	4.2	--	4.6	--	4.6	--	7.6	--	7.6	--	9.3	--
11/25/86	1200	4.0	--	4.4	--	4.4	--	7.5	--	7.5	--	9.2	--
11/26/86	0	4.1	--	4.4	--	4.4	--	7.5	--	7.5	--	9.3	--
11/26/86	1200	4.0	--	4.4	--	4.4	--	7.5	--	7.5	--	9.2	--
11/27/86	0	3.8	--	4.3	--	4.3	--	7.4	--	7.4	--	9.2	--
11/27/86	1200	3.7	--	4.1	--	4.1	--	7.3	--	7.3	--	9.1	--
11/28/86	0	3.6	--	4.1	--	4.1	--	7.3	--	7.3	--	9.1	--
11/28/86	1200	3.5	--	4.0	--	4.0	--	7.3	--	7.3	--	9.1	--
11/29/86	0	3.5	--	3.9	--	3.9	--	7.3	--	7.3	--	9.1	--
11/29/86	1200	3.4	--	3.8	--	3.8	--	7.2	--	7.2	--	9.0	--
11/30/86	0	3.4	--	3.8	--	3.8	--	7.1	--	7.1	--	9.0	--
11/30/86	1200	3.2	--	3.6	--	3.6	--	7.0	--	7.0	--	8.9	--
12/01/86	0	3.1	--	3.6	--	3.6	--	7.0	--	7.0	--	8.8	--
12/01/86	1200	3.0	--	3.5	--	3.5	--	6.9	--	6.9	--	8.8	--
12/02/86	0	2.9	--	3.4	--	3.4	--	6.9	--	6.9	--	8.8	--
12/02/86	1200	2.7	--	3.2	--	3.2	--	6.8	--	6.8	--	8.8	--
12/03/86	0	2.5	--	3.0	--	3.0	--	6.7	--	6.7	--	8.7	--
12/03/86	1200	2.3	--	2.9	--	2.9	--	6.7	--	6.7	--	8.7	--
12/04/86	0	2.2	--	2.8	--	2.8	--	6.7	--	6.7	--	8.7	--
12/04/86	1200	2.0	--	2.6	--	2.6	--	6.6	--	6.6	--	8.6	--
12/05/86	0	1.9	--	2.5	--	2.5	--	6.5	--	6.5	--	8.6	--
12/05/86	1200	1.7	--	2.3	--	2.3	--	6.4	--	6.4	--	8.5	--
12/06/86	0	1.7	--	2.2	--	2.2	--	6.4	--	6.4	--	8.5	--
12/06/86	1200	1.7	--	2.2	--	2.2	--	6.3	--	6.3	--	8.5	--
12/07/86	0	1.7	--	2.1	--	2.1	--	6.2	--	6.2	--	8.4	--
12/07/86	1200	1.6	--	2.1	--	2.1	--	6.1	--	6.1	--	8.3	--
12/08/86	0	1.7	--	2.1	--	2.1	--	6.1	--	6.1	--	8.3	--
12/08/86	1200	1.7	--	2.1	--	2.1	--	6.0	--	6.0	--	8.3	--
12/09/86	0	1.7	--	2.1	--	2.1	--	5.9	--	5.9	--	8.1	--
12/09/86	1200	1.6	--	2.1	--	2.1	--	5.8	--	5.8	--	8.1	--
12/10/86	0	1.7	--	2.1	--	2.1	--	5.9	--	5.9	--	8.1	--
12/10/86	1200	1.5	--	2.0	--	2.0	--	5.8	--	5.8	--	8.1	--

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#1 0.6			tcp#2 0.9			tcp#3 1.5			tcp#4 2.1		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
12/11/86	0	1.3	--	1.8	>-1.0	5.7	7.9	>-1.0	7.9	>-1.0	7.9	>-1.0
12/11/86	1200	1.1	--	1.7	>-1.0	5.6	7.9	>-1.0	7.9	>-1.0	7.9	>-1.0
12/12/86	0	1.1	--	1.6	>-1.0	5.5	7.9	>-1.0	7.9	>-1.0	7.9	>-1.0
12/12/86	1200	0.7	--	1.3	>-1.0	5.5	7.8	>-1.0	7.8	>-1.0	7.8	>-1.0
12/13/86	0	0.7	--	1.3	>-1.0	5.5	7.8	>-1.0	7.8	>-1.0	7.8	>-1.0
12/13/86	1200	0.7	--	1.2	>-1.0	5.5	7.9	>-1.0	7.9	>-1.0	7.9	>-1.0
12/14/86	0	0.4	--	1.0	>-1.0	5.4	7.7	>-1.0	7.7	>-1.0	7.7	>-1.0
12/14/86	1200	0.2	--	0.8	>-1.0	5.2	7.6	>-1.0	7.6	>-1.0	7.6	>-1.0
12/15/86	0	0.2	--	0.8	>-1.0	5.2	7.6	>-1.0	7.6	>-1.0	7.6	>-1.0
12/15/86	1200	0.0	--	0.6	>-1.0	5.1	7.5	>-1.0	7.5	>-1.0	7.5	>-1.0
12/16/86	0	0.0	--	0.6	>-1.0	5.1	7.5	>-1.0	7.5	>-1.0	7.5	>-1.0
12/16/86	1200	-0.1	--	0.5	>-1.0	5.0	7.5	>-1.0	7.5	>-1.0	7.5	>-1.0
12/17/86	0	-0.1	--	0.4	>-1.0	4.9	7.4	>-1.0	7.4	>-1.0	7.4	>-1.0
12/17/86	1200	-0.2	--	0.4	>-1.0	4.8	7.4	>-1.0	7.4	>-1.0	7.4	>-1.0
12/18/86	0	-0.3	--	0.3	>-1.0	4.7	7.3	>-1.0	7.3	>-1.0	7.3	>-1.0
12/18/86	1200	-0.4	--	0.2	>-1.0	4.6	7.2	>-1.0	7.2	>-1.0	7.2	>-1.0
12/19/86	0	-0.4	--	0.1	>-1.0	4.6	7.2	>-1.0	7.2	>-1.0	7.2	>-1.0
12/19/86	1200	-0.5	--	0.1	>-1.0	4.6	7.2	>-1.0	7.2	>-1.0	7.2	>-1.0
12/20/86	0	-0.5	--	0.0	>-1.0	4.5	7.1	>-1.0	7.1	>-1.0	7.1	>-1.0
12/20/86	1200	-0.7	--	-0.1	>-1.0	4.4	7.0	>-1.0	7.0	>-1.0	7.0	>-1.0
12/21/86	0	-0.7	--	-0.1	>-1.0	4.4	7.0	>-1.0	7.0	>-1.0	7.0	>-1.0
12/21/86	1200	-0.7	--	-0.2	>-1.0	4.3	6.9	>-1.0	6.9	>-1.0	6.9	>-1.0
12/22/86	0	-0.9	--	-0.3	>-1.0	4.2	6.8	>-1.0	6.8	>-1.0	6.8	>-1.0
12/22/86	1200	-0.9	--	-0.2	>-1.0	4.2	6.9	>-1.0	6.9	>-1.0	6.9	>-1.0
12/23/86	0	-0.9	--	-0.3	>-1.0	4.1	6.8	>-1.0	6.8	>-1.0	6.8	>-1.0
12/23/86	1200	-1.1	--	-0.5	>-1.0	4.0	6.7	>-1.0	6.7	>-1.0	6.7	>-1.0
12/24/86	0	-1.0	--	-0.4	>-1.0	4.0	6.7	>-1.0	6.7	>-1.0	6.7	>-1.0
12/24/86	1200	-1.1	--	-0.5	>-1.0	4.0	6.7	>-1.0	6.7	>-1.0	6.7	>-1.0
12/25/86	0	-1.2	--	-0.6	>-1.0	3.8	6.5	>-1.0	6.5	>-1.0	6.5	>-1.0
12/25/86	1200	-1.2	--	-0.6	-1.4	3.8	6.5	>-1.0	6.5	>-1.0	6.5	>-1.0
12/26/86	0	-1.3	--	-0.7	-1.7	3.8	6.5	>-1.0	6.5	>-1.0	6.5	>-1.0
12/26/86	1200	-1.3	--	-0.6	-1.9	3.7	6.4	>-1.0	6.4	>-1.0	6.4	>-1.0
12/27/86	0	-1.3	--	-0.7	-1.9	3.7	6.4	>-1.0	6.4	>-1.0	6.4	>-1.0
12/27/86	1200	-1.3	--	-0.7	-1.8	3.6	6.3	>-1.0	6.3	>-1.0	6.3	>-1.0
12/28/86	0	-1.2	--	-0.6	-2.5	3.6	6.3	>-1.0	6.3	>-1.0	6.3	>-1.0
12/28/86	1200	-1.4	--	-0.8	-2.1	3.5	6.2	>-1.0	6.2	>-1.0	6.2	>-1.0

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)		tcp#1		tcp#2		tcp#3		tcp#4	
		0.6		0.9		1.5		2.1	
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
12/29/86	0	-1.4	--	-0.8	-2.5	3.5	>-1.0	6.2	>-1.0
12/29/86	1200	-1.5	--	-0.9	-2.9	3.4	>-1.0	6.1	>-1.0
12/30/86	0	-1.5	--	-1.0	-2.9	3.4	>-1.0	6.1	>-1.0
12/30/86	1200	-1.7	--	-1.1	-3.4	3.3	>-1.0	6.0	>-1.0
12/31/86	0	-1.6	--	-1.0	-3.9	3.4	>-1.0	6.0	>-1.0
12/31/86	1200	-1.7	--	-1.1	-4.0	3.3	>-1.0	6.0	>-1.0

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#5 2.7			tcp#6 3.4			tcp#7 4.0		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
11/09/85	0	11.0	-17.7	11.0	-19.4	10.7	-4.8		
11/09/85	1200	10.9	-17.6	10.9	-19.0	10.6	-4.3		
11/10/85	0	10.9	-17.4	11.0	-19.1	10.7	-4.4		
11/10/85	1200	10.8	-17.4	10.8	-18.8	10.6	-4.6		
11/11/85	0	10.8	-17.4	10.8	-18.8	10.6	-4.6		
11/11/85	1200	10.8	-17.2	10.8	-18.7	10.6	-4.4		
11/12/85	0	10.8	-17.0	10.8	-18.6	10.5	-4.7		
11/12/85	1200	10.8	-16.9	10.8	-18.8	10.6	-4.4		
11/13/85	0	10.8	-16.8	10.8	-18.8	10.6	-4.6		
11/13/85	1200	10.7	-16.8	10.8	-18.5	10.6	-4.3		
11/14/85	0	10.7	-16.8	10.8	-18.9	10.6	-4.5		
11/14/85	1200	10.6	-16.6	10.7	-19.2	10.5	-4.6		
11/15/85	0	10.6	-16.7	10.6	-19.0	10.5	-4.6		
11/15/85	1200	10.6	-16.9	10.7	-19.0	10.5	-4.6		
11/16/85	0	10.5	-16.7	10.6	-18.9	10.5	-4.8		
11/16/85	1200	10.6	-16.8	10.7	-18.9	10.6	-5.0		
11/17/85	0	10.6	-16.8	10.7	-19.0	10.6	-5.0		
11/17/85	1200	10.5	-17.0	10.7	-19.1	10.5	-5.1		
11/18/85	0	10.5	-17.0	10.6	-19.1	10.5	-5.3		
11/18/85	1200	10.5	-17.0	10.7	-19.0	10.5	-5.5		
11/19/85	0	10.5	-16.8	10.6	-18.7	10.5	-5.7		
11/19/85	1200	10.4	-17.0	10.5	-18.8	10.4	-5.8		
11/20/85	0	10.4	-16.7	10.6	-18.8	10.5	-6.3		
11/20/85	1200	10.3	-16.8	10.4	-19.0	10.4	-6.4		
11/21/85	0	10.3	-16.9	10.6	-19.0	10.5	-7.0		
11/21/85	1200	10.2	-16.8	10.4	-18.8	10.4	-7.0		
11/22/85	0	10.2	-16.9	10.3	-19.2	10.3	-6.9		
11/22/85	1200	10.2	-16.6	10.4	-18.9	10.4	-6.9		
11/23/85	0	10.2	-16.5	10.4	-18.6	10.4	-6.9		
11/23/85	1200	10.1	-16.3	10.3	-18.5	10.3	-6.8		
11/24/85	0	10.1	-16.3	10.3	-18.5	10.3	-7.2		
11/24/85	1200	10.0	-16.1	10.2	-18.4	10.2	-7.1		
11/25/85	0	10.1	-16.3	10.4	-18.5	10.4	-6.9		
11/25/85	1200	10.0	-16.4	10.3	-18.3	10.3	-6.9		
11/26/85	0	10.0	-16.2	10.3	-18.2	10.3	-6.8		
11/26/85	1200	9.9	-16.2	10.2	-18.1	10.3	-7.0		

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#5 2.7			tcp#6 3.4			tcp#7 4.0		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
11/27/85	0	9.9	-15.9	10.2	-17.7	10.2	-17.7	10.2	-6.8
11/27/85	1200	9.9	-16.0	10.2	-17.8	10.2	-17.8	10.2	-7.2
11/28/85	0	9.9	-15.6	10.2	-17.5	10.3	-17.5	10.3	-6.8
11/28/85	1200	9.9	-15.7	10.2	-17.4	10.3	-17.4	10.3	-7.0
11/29/85	0	9.8	-15.9	10.1	-17.2	10.2	-17.2	10.2	-7.0
11/29/85	1200	9.8	-16.0	10.2	-17.6	10.3	-17.6	10.3	-6.9
11/30/85	0	9.7	-15.7	10.0	-17.6	10.1	-17.6	10.1	-7.3
11/30/85	1200	9.8	-15.6	10.2	-17.6	10.3	-17.6	10.3	-7.0
12/01/85	0	9.7	-15.6	10.0	-17.5	10.1	-17.5	10.1	-6.9
12/01/85	1200	9.7	-15.6	10.0	-17.4	10.2	-17.4	10.2	-6.8
12/02/85	0	9.6	-15.6	9.9	-17.5	10.1	-17.5	10.1	-7.0
12/02/85	1200	9.6	-15.5	10.0	-17.2	10.2	-17.2	10.2	-7.1
12/03/85	0	9.6	-15.6	10.0	-17.2	10.2	-17.2	10.2	-7.2
12/03/85	1200	9.5	-15.7	9.9	-17.5	10.1	-17.5	10.1	-7.1
12/04/85	0	9.6	-15.5	10.0	-17.1	10.1	-17.1	10.1	-6.9
12/04/85	1200	9.5	-15.3	9.9	-17.2	10.1	-17.2	10.1	-7.1
12/05/85	0	9.4	-15.4	9.8	-17.0	10.1	-17.0	10.1	-7.3
12/05/85	1200	9.4	-15.7	9.8	-17.1	10.0	-17.1	10.0	-7.1
12/06/85	0	9.4	-15.3	9.9	-17.3	10.1	-17.3	10.1	-7.2
12/06/85	1200	9.3	-15.5	9.8	-17.2	10.0	-17.2	10.0	-7.0
12/07/85	0	9.4	-15.4	9.8	-17.3	10.1	-17.3	10.1	-7.1
12/07/85	1200	9.4	-15.5	9.8	-17.1	10.0	-17.1	10.0	-6.9
12/08/85	0	9.3	-15.4	9.8	-17.2	10.1	-17.2	10.1	-7.2
12/08/85	1200	9.2	-15.5	9.7	-17.4	10.0	-17.4	10.0	-7.9
12/09/85	0	9.2	-15.3	9.7	-17.2	10.0	-17.2	10.0	-8.6
12/09/85	1200	9.4	-15.5	9.8	-17.0	10.1	-17.0	10.1	-9.0
12/10/85	0	9.2	-15.5	9.7	-17.2	10.0	-17.2	10.0	-9.5
12/10/85	1200	9.2	-15.4	9.7	-17.2	10.0	-17.2	10.0	-9.7
12/11/85	0	9.1	-15.4	9.6	-17.4	9.9	-17.4	9.9	-10.3
12/11/85	1200	9.0	-15.5	9.4	-17.3	9.8	-17.3	9.8	-10.8
12/12/85	0	9.1	-15.4	9.6	-17.3	10.0	-17.3	10.0	-11.1
12/12/85	1200	9.0	-15.5	9.5	-17.2	9.9	-17.2	9.9	-11.6
12/13/85	0	9.0	-15.4	9.5	-17.0	9.8	-17.0	9.8	-11.8
12/13/85	1200	9.0	-15.5	9.5	-17.1	9.9	-17.1	9.9	-12.1
12/14/85	0	9.0	-15.6	9.5	-17.3	9.9	-17.3	9.9	-13.2
12/14/85	1200	8.9	-15.5	9.4	-16.9	9.8	-16.9	9.8	-14.4

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#5		tcp#6		tcp#7	
	2.7		3.4		4.0	
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil-water potential (bars)
12/15/85	0	8.9	-15.5	9.3	-17.1	-15.1
12/15/85	1200	8.8	-15.4	9.3	-17.0	-15.6
12/16/85	0	8.9	-15.5	9.4	-16.9	-16.0
12/16/85	1200	8.8	-15.1	9.3	-17.0	-16.2
12/17/85	0	8.8	-15.3	9.3	-17.0	-16.2
12/17/85	1200	8.7	-15.1	9.2	-16.9	-16.5
12/18/85	0	8.7	-15.2	9.2	-16.8	-16.6
12/18/85	1200	8.7	-15.2	9.3	-16.9	-16.9
12/19/85	0	8.7	-15.3	9.2	-16.8	-17.2
12/19/85	1200	8.7	-15.2	9.2	-17.0	-17.3
12/20/85	0	8.7	-15.2	9.2	-16.8	-17.2
12/20/85	1200	8.6	-15.1	9.1	-17.0	-17.4
12/21/85	0	8.6	-15.3	9.2	-17.0	-17.5
12/21/85	1200	8.5	-15.4	9.1	-17.0	-17.3
12/22/85	0	8.6	-15.2	9.1	-16.8	-17.2
12/22/85	1200	8.5	-15.2	9.0	-16.8	-17.4
12/23/85	0	8.5	-15.2	9.1	-16.9	-17.1
12/23/85	1200	8.4	-15.1	8.9	-17.0	-17.5
12/24/85	0	8.5	-15.1	9.1	-16.8	-17.5
12/24/85	1200	8.4	-15.1	8.9	-17.2	-17.4
12/25/85	0	8.4	-15.1	8.9	-16.8	-17.5
12/25/85	1200	8.3	-15.0	8.9	-16.9	-17.5
12/26/85	0	8.4	-15.0	8.9	-16.9	-17.3
12/26/85	1200	8.3	-15.0	8.9	-16.9	-17.4
12/27/85	0	8.3	-15.1	8.9	-17.0	-17.5
12/27/85	1200	8.2	-15.0	8.8	-16.9	-17.5
12/28/85	0	8.2	-15.0	8.8	-17.1	-17.5
12/28/85	1200	8.2	-15.0	8.8	-16.9	-17.4
12/29/85	0	8.2	-15.1	8.8	-17.0	-17.4
12/29/85	1200	8.2	-14.9	8.8	-16.9	-17.6
12/30/85	0	8.2	-14.8	8.8	-17.0	-17.6
12/30/85	1200	8.1	-14.4	8.6	-17.2	-17.5
12/31/85	0	8.2	-14.5	8.8	-17.0	-17.5
12/31/85	1200	8.0	-14.4	8.6	-16.7	-17.4
01/01/86	0	8.0	-14.3	8.6	-17.1	-17.7
01/01/86	1200	8.0	-14.5	8.6	-16.8	-17.4

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#5 2.7			tcp#6 3.4			tcp#7 4.0		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
01/02/86	0	8.0	-14.4	8.7	-16.9	9.3	-17.5		
01/02/86	1200	8.0	-14.4	8.6	-17.1	9.2	-17.6		
01/03/86	0	8.0	-14.3	8.6	-17.1	9.3	-17.6		
01/03/86	1200	8.0	-14.2	8.6	-17.1	9.2	-17.5		
01/04/86	0	7.9	-14.0	8.5	-16.7	9.1	-17.3		
01/04/86	1200	7.9	-14.4	8.5	-16.7	9.2	-17.3		
01/05/86	0	7.9	-14.2	8.5	-16.6	9.2	-17.1		
01/05/86	1200	7.8	-14.3	8.4	-17.1	9.1	-17.4		
01/06/86	0	7.8	-14.2	8.4	-16.9	9.1	-17.2		
01/06/86	1200	7.8	-14.3	8.5	-16.9	9.1	-17.0		
01/07/86	0	7.8	-13.9	8.4	-16.9	9.0	-16.8		
01/07/86	1200	7.7	-13.8	8.3	-16.5	9.0	-16.9		
01/08/86	0	7.8	-14.4	8.5	-16.6	9.1	-16.9		
01/08/86	1200	7.7	-14.6	8.2	-16.7	8.9	-16.9		
01/09/86	0	7.7	-14.2	8.3	-16.9	9.0	-16.9		
01/09/86	1200	7.6	-14.4	8.2	-16.5	8.9	-16.8		
01/10/86	0	7.7	-14.3	8.3	-16.7	9.0	-16.7		
01/10/86	1200	7.6	-14.5	8.3	-16.6	9.0	-16.6		
01/11/86	0	7.7	-14.4	8.3	-16.5	9.0	-16.8		
01/11/86	1200	7.5	-14.5	8.1	-16.7	8.8	-16.5		
01/12/86	0	7.6	-14.3	8.1	-16.5	8.8	-16.7		
01/12/86	1200	7.6	-14.4	8.2	-16.6	9.0	-16.6		
01/13/86	0	7.6	-14.2	8.3	-16.9	9.0	-16.6		
01/13/86	1200	7.5	-14.3	8.2	-16.6	8.9	-16.5		
01/14/86	0	7.6	-14.1	8.3	-16.6	9.0	-16.5		
01/14/86	1200	7.4	-14.2	8.1	-16.7	8.8	-16.5		
01/15/86	0	7.4	-14.5	8.1	-16.6	8.9	-16.5		
01/15/86	1200	7.5	-14.3	8.2	-16.7	8.9	-16.7		
01/16/86	0	7.4	-14.3	8.1	-16.7	8.8	-16.5		
01/16/86	1200	7.4	-14.2	8.0	-16.5	8.7	-16.5		
01/17/86	0	7.4	-14.3	8.0	-16.6	8.8	-16.5		
01/17/86	1200	7.4	-14.1	8.1	-16.7	8.8	-16.6		
01/18/86	0	7.3	-14.0	8.0	-16.8	8.7	-16.4		
01/18/86	1200	7.4	-14.0	8.1	-16.6	8.8	-16.4		
01/19/86	0	7.3	-14.0	8.1	-16.4	8.8	-16.4		
01/19/86	1200	7.3	-14.0	8.0	-16.6	8.8	-16.6		

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#5 2.7			tcp#6 3.4			tcp#7 4.0		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
01/20/86	0	7.2	-14.1	7.9	-16.6	8.7	-16.6	8.7	-16.6
01/20/86	1200	7.3	-13.9	8.0	-16.5	8.7	-16.6	8.7	-16.6
01/21/86	0	7.3	-14.0	8.0	-16.7	8.8	-16.8	8.8	-16.8
01/21/86	1200	7.2	-14.0	7.9	-16.7	8.7	-16.6	8.7	-16.6
01/22/86	0	7.3	-13.9	8.0	-16.6	8.7	-16.6	8.7	-16.6
01/22/86	1200	7.2	-13.9	7.9	-16.7	8.7	-16.3	8.7	-16.3
01/23/86	0	7.1	-13.9	7.8	-16.4	8.6	-16.5	8.6	-16.5
01/23/86	1200	7.2	-13.8	7.9	-16.7	8.7	-16.6	8.7	-16.6
01/24/86	0	7.2	-14.0	7.9	-16.4	8.7	-16.5	8.7	-16.5
01/24/86	1200	7.0	-14.0	7.7	-16.5	8.5	-16.5	8.5	-16.5
01/25/86	0	7.0	-13.8	7.7	-16.6	8.5	-16.5	8.5	-16.5
01/25/86	1200	7.1	-13.9	7.9	-16.4	8.7	-16.2	8.7	-16.2
01/26/86	0	7.0	-13.7	7.8	-16.5	8.5	-16.3	8.5	-16.3
01/26/86	1200	7.0	-13.6	7.7	-16.7	8.5	-16.3	8.5	-16.3
01/27/86	0	7.0	-13.6	7.8	-16.4	8.6	-16.3	8.6	-16.3
01/27/86	1200	6.9	-13.7	7.7	-16.5	8.5	-16.5	8.5	-16.5
01/28/86	0	6.9	-13.6	7.6	-16.5	8.4	-16.2	8.4	-16.2
01/28/86	1200	6.9	-13.4	7.6	-16.5	8.4	-16.3	8.4	-16.3
01/29/86	0	6.9	-13.5	7.7	-16.7	8.5	-16.3	8.5	-16.3
01/29/86	1200	6.9	-13.3	7.6	-16.6	8.5	-16.2	8.5	-16.2
01/30/86	0	7.0	-13.4	7.7	-16.8	8.5	-16.5	8.5	-16.5
01/30/86	1200	6.9	-13.7	7.6	-16.5	8.4	-16.3	8.4	-16.3
01/31/86	0	6.9	-13.6	7.6	-16.5	8.4	-16.3	8.4	-16.3
01/31/86	1200	6.8	-13.1	7.6	-16.6	8.4	-16.2	8.4	-16.2
02/01/86	0	6.8	-13.4	7.5	-16.5	8.3	-16.3	8.3	-16.3
02/01/86	1200	6.8	-13.1	7.5	-16.5	8.3	-16.3	8.3	-16.3
02/02/86	0	6.7	-13.1	7.5	-16.4	8.3	-16.2	8.3	-16.2
02/02/86	1200	6.8	-13.6	7.5	-16.8	8.3	-16.2	8.3	-16.2
02/03/86	0	6.8	--	7.6	-16.6	8.4	-16.2	8.4	-16.2
02/03/86	1200	6.7	--	7.4	-16.4	8.3	-16.2	8.3	-16.2
02/04/86	0	6.7	--	7.4	-16.5	8.3	-16.2	8.3	-16.2
02/04/86	1200	6.8	--	7.4	-16.5	8.3	-16.3	8.3	-16.3
02/05/86	0	6.6	--	7.3	-16.4	8.2	-16.2	8.2	-16.2
02/05/86	1200	6.6	--	7.4	-16.6	8.2	-16.3	8.2	-16.3
02/06/86	0	6.8	--	7.4	-16.6	8.3	-16.3	8.3	-16.3
02/06/86	1200	6.6	--	7.4	-16.3	8.2	-16.0	8.2	-16.0

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier		tcp#5		tcp#6		tcp#7	
Depth below land surface (meters)		2.7		3.4		4.0	
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
02/07/86	0	6.7	--	7.4	-16.3	8.2	-16.2
02/07/86	1200	6.6	--	7.3	-16.4	8.1	-16.3
02/08/86	0	6.6	--	7.4	-16.5	8.3	-16.0
02/08/86	1200	6.6	--	7.3	-16.4	8.1	-16.0
02/09/86	0	6.6	--	7.3	-16.4	8.2	-16.2
02/09/86	1200	6.6	--	7.3	-16.4	8.1	-16.0
02/10/86	0	6.6	--	7.3	-16.4	8.1	-16.2
02/10/86	1200	6.5	--	7.3	-16.4	8.1	-16.0
02/11/86	0	6.5	--	7.1	-16.4	8.0	-16.1
02/11/86	1200	6.4	--	7.1	-16.3	8.0	-16.0
02/12/86	0	6.5	--	7.3	-16.2	8.1	-16.1
02/12/86	1200	6.5	--	7.2	-16.4	8.0	-16.3
02/13/86	0	6.5	--	7.2	-16.4	8.1	-16.0
02/13/86	1200	6.5	--	7.2	-16.3	8.0	-16.1
02/14/86	0	6.4	--	7.1	-16.3	7.9	-16.1
02/14/86	1200	6.4	--	7.1	-16.2	8.0	-16.2
02/15/86	0	6.5	--	7.2	-16.4	8.1	-16.1
02/15/86	1200	6.4	--	7.1	-16.4	8.0	-16.4
02/16/86	0	6.4	--	7.2	-16.5	8.0	-16.4
02/16/86	1200	6.4	--	7.1	-16.2	8.0	-16.3
02/17/86	0	6.4	--	7.0	-16.4	7.9	-16.5
02/17/86	1200	6.4	--	7.1	-16.4	8.0	-16.5
02/18/86	0	6.4	--	7.1	-16.4	8.0	-16.7
02/18/86	1200	6.4	--	7.1	-16.4	8.0	-16.6
02/19/86	0	6.4	--	7.1	-16.3	8.0	-16.6
02/19/86	1200	6.3	--	7.1	-16.2	7.9	-16.6
02/20/86	0	6.3	--	7.0	-16.3	7.8	-16.7
02/20/86	1200	6.2	--	7.0	-16.4	7.8	-16.5
02/21/86	0	6.3	--	7.0	-16.2	7.9	-16.4
02/21/86	1200	6.3	--	7.0	-16.4	7.9	-16.5
02/22/86	0	6.2	--	6.9	-16.4	7.7	-16.4
02/22/86	1200	6.2	--	6.9	-16.1	7.8	-16.6
02/23/86	0	6.2	--	7.0	-16.5	7.8	-16.5
02/23/86	1200	6.2	--	6.9	-16.4	7.8	-16.4
02/24/86	0	6.2	--	6.9	-16.1	7.8	-16.3
02/24/86	1200	6.2	--	6.9	-16.1	7.8	-16.4

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#5 2.7			tcp#6 3.4			tcp#7 4.0		
	Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	
02/25/86		0	6.2	--	6.9	-16.1	7.7	-16.4	
02/25/86		1200	6.1	--	6.8	-16.0	7.7	-16.5	
02/26/86		0	6.2	--	6.9	-16.2	7.8	-16.5	
02/26/86		1200	6.1	--	6.8	-16.1	7.6	-16.5	
02/27/86		0	6.1	--	6.8	-16.0	7.7	-16.6	
02/27/86		1200	6.1	--	6.8	-16.0	7.7	-16.4	
02/28/86		0	6.1	--	6.8	-16.1	7.7	-16.4	
02/28/86		1200	6.1	--	6.8	-16.2	7.7	-16.5	
03/01/86		0	6.1	--	6.8	-16.3	7.7	-16.6	
03/01/86		1200	6.0	--	6.7	-16.3	7.6	-16.4	
03/02/86		0	6.0	--	6.7	-16.2	7.6	-16.4	
03/02/86		1200	6.0	--	6.7	-16.0	7.7	-16.4	
03/03/86		0	6.1	--	6.8	-16.0	7.7	-16.5	
03/03/86		1200	6.0	--	6.7	-16.1	7.6	-16.4	
03/04/86		0	6.1	--	6.8	-16.0	7.7	-16.5	
03/04/86		1200	5.8	--	6.6	-15.9	7.5	-16.4	
03/05/86		0	6.0	--	6.8	-15.8	7.6	-16.2	
03/05/86		1200	5.9	--	6.6	-15.9	7.6	-16.6	
03/06/86		0	6.0	--	6.7	-16.0	7.6	-16.4	
03/06/86		1200	5.9	--	6.6	-16.1	7.5	-16.4	
03/07/86		0	6.0	--	6.7	-15.9	7.6	-16.6	
03/07/86		1200	5.9	--	6.6	-16.1	7.5	-16.5	
03/08/86		0	5.9	--	6.6	-16.0	7.6	-16.9	
03/08/86		1200	5.8	--	6.6	-15.9	7.5	-16.8	
03/09/86		0	5.9	--	6.6	-15.9	7.5	-16.7	
03/09/86		1200	5.8	--	6.5	-15.7	7.4	-16.7	
03/10/86		0	5.9	--	6.6	-15.6	7.5	-16.7	
03/10/86		1200	5.9	--	6.6	-15.8	7.5	-16.7	
03/11/86		0	5.9	--	6.6	-15.6	7.5	-16.8	
03/11/86		1200	5.9	--	6.6	-15.5	7.5	-16.7	
03/12/86		0	5.9	--	6.5	-15.7	7.5	-16.7	
03/12/86		1200	5.8	--	6.5	-15.5	7.4	-16.7	
03/13/86		0	5.7	--	6.4	-15.3	7.3	-16.7	
03/13/86		1200	5.8	--	6.5	-15.3	7.4	-16.4	
03/14/86		0	5.9	--	6.5	-15.3	7.5	-16.5	
03/14/86		1200	5.8	--	6.5	-15.5	7.4	-16.5	

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier		tcp#5			tcp#6			tcp#7		
Depth below land surface (meters)		2.7			3.4			4.0		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)
03/15/86	0	5.8	--	6.4	-15.3	7.4	-16.6	7.4	-16.4	7.4
03/15/86	1200	5.8	--	6.5	-15.3	7.4	-16.4	7.4	-16.4	7.4
03/16/86	0	5.9	--	6.6	-15.2	7.5	-16.4	7.5	-16.4	7.5
03/16/86	1200	5.8	--	6.5	-15.1	7.4	-16.4	7.4	-16.4	7.4
03/17/86	0	5.8	--	6.5	-15.0	7.4	-16.5	7.4	-16.5	7.4
03/17/86	1200	5.8	--	6.5	-14.7	7.4	-16.6	7.4	-16.6	7.4
03/18/86	0	5.9	--	6.5	-14.3	7.4	-16.5	7.4	-16.5	7.4
03/18/86	1200	5.7	--	6.3	-14.0	7.2	-16.5	7.2	-16.5	7.2
03/19/86	0	5.8	--	6.5	-14.1	7.4	-16.4	7.4	-16.4	7.4
03/19/86	1200	5.8	--	6.4	-13.6	7.3	-16.3	7.3	-16.3	7.3
03/20/86	0	5.8	--	6.4	-13.9	7.3	-16.5	7.3	-16.5	7.3
03/20/86	1200	5.7	--	6.3	-13.8	7.2	-16.4	7.2	-16.4	7.2
03/21/86	0	5.8	--	6.4	-13.6	7.3	-16.1	7.3	-16.1	7.3
03/21/86	1200	5.8	--	6.4	-13.3	7.3	-16.3	7.3	-16.3	7.3
03/22/86	0	5.8	--	6.4	-13.3	7.3	-16.3	7.3	-16.3	7.3
03/22/86	1200	5.7	--	6.4	-13.2	7.2	-16.3	7.2	-16.3	7.2
03/23/86	0	5.8	--	6.4	-13.0	7.3	-16.4	7.3	-16.4	7.3
03/23/86	1200	5.7	--	6.3	-13.0	7.2	-16.3	7.2	-16.3	7.2
03/24/86	0	5.8	--	6.5	-13.2	7.3	-16.3	7.3	-16.3	7.3
03/24/86	1200	5.7	--	6.3	-13.0	7.2	-16.3	7.2	-16.3	7.2
03/25/86	0	5.8	--	6.4	-12.7	7.2	-16.3	7.2	-16.3	7.2
03/25/86	1200	5.7	--	6.3	-12.6	7.1	-16.2	7.1	-16.2	7.1
03/26/86	0	5.7	--	6.3	-12.3	7.2	-16.2	7.2	-16.2	7.2
03/26/86	1200	5.8	--	6.3	-12.5	7.2	-16.3	7.2	-16.3	7.2
03/27/86	0	5.8	--	6.4	-12.3	7.2	-16.2	7.2	-16.2	7.2
03/27/86	1200	5.7	--	6.3	-12.4	7.2	-16.2	7.2	-16.2	7.2
03/28/86	0	5.8	--	6.3	-12.0	7.2	-16.2	7.2	-16.2	7.2
03/28/86	1200	5.7	--	6.3	-11.8	7.1	-16.3	7.1	-16.3	7.1
03/29/86	0	5.9	--	6.5	-11.9	7.4	-16.1	7.4	-16.1	7.4
03/29/86	1200	5.7	--	6.3	-12.0	7.1	-16.1	7.1	-16.1	7.1
03/30/86	0	5.9	--	6.4	-11.6	7.3	-16.1	7.3	-16.1	7.3
03/30/86	1200	5.7	--	6.3	-11.5	7.1	-16.4	7.1	-16.4	7.1
03/31/86	0	5.9	--	6.4	-11.7	7.2	-16.1	7.2	-16.1	7.2
03/31/86	1200	5.8	--	6.3	-11.6	7.1	-16.1	7.1	-16.1	7.1
04/01/86	0	5.8	--	6.4	-11.3	7.2	-16.2	7.2	-16.2	7.2
04/01/86	1200	5.7	--	6.2	-11.4	7.1	-16.4	7.1	-16.4	7.1

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#5 2.7			tcp#6 3.4			tcp#7 4.0		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
04/02/86	0	5.8	--	6.3	-11.5	7.1	-16.5		
04/02/86	1200	5.9	--	6.4	-11.5	7.2	-16.3		
04/03/86	0	5.9	--	6.4	-11.3	7.2	-16.1		
04/03/86	1200	5.8	--	6.3	-11.2	7.1	-16.6		
04/04/86	0	5.8	--	6.3	-11.0	7.1	-16.2		
04/04/86	1200	5.8	--	6.3	-10.5	7.0	-16.3		
04/05/86	0	5.9	--	6.4	-10.3	7.2	-16.4		
04/05/86	1200	5.8	--	6.3	-10.0	7.0	-16.5		
04/06/86	0	5.9	--	6.4	-9.7	7.1	-16.4		
04/06/86	1200	5.8	--	6.3	-9.8	7.0	-16.2		
04/07/86	0	5.9	--	6.4	-9.6	7.2	-16.4		
04/07/86	1200	5.9	--	6.3	-9.5	7.1	-16.2		
04/08/86	0	5.9	--	6.4	-9.5	7.1	-16.4		
04/08/86	1200	5.9	--	6.3	-9.2	7.1	-16.2		
04/09/86	0	5.9	--	6.3	-9.5	7.0	-16.4		
04/09/86	1200	5.9	--	6.3	-9.5	7.1	-16.1		
04/10/86	0	5.9	--	6.3	-9.2	7.0	-16.2		
04/10/86	1200	5.9	--	6.3	-9.1	7.0	-16.2		
04/11/86	0	6.0	--	6.4	-9.3	7.1	-16.3		
04/11/86	1200	5.9	--	6.3	-9.3	7.0	-16.3		
04/12/86	0	6.0	--	6.4	-9.2	7.1	-16.5		
04/12/86	1200	5.9	--	6.3	-9.1	7.0	-16.2		
04/13/86	0	6.0	--	6.4	-9.0	7.1	-16.3		
04/13/86	1200	5.9	--	6.3	-8.9	6.9	-16.4		
04/14/86	0	6.0	--	6.4	-8.7	7.1	-16.1		
04/14/86	1200	6.0	--	6.3	-8.8	7.0	-16.4		
04/15/86	0	6.1	--	6.4	-8.6	7.1	-16.0		
04/15/86	1200	6.0	--	6.4	-9.2	7.0	-16.1		
04/16/86	0	6.1	--	6.4	-8.8	7.1	-16.1		
04/16/86	1200	6.1	--	6.3	-8.9	7.0	-16.3		
04/17/86	0	6.1	--	6.4	-8.7	7.0	-16.2		
04/17/86	1200	6.1	--	6.4	-8.6	7.0	-16.2		
04/18/86	0	6.0	--	6.3	-8.4	6.9	-16.0		
04/18/86	1200	6.1	--	6.5	-8.5	7.0	-16.0		
04/19/86	0	6.1	--	6.4	-8.6	7.0	-16.0		
04/19/86	1200	6.1	--	6.4	-8.5	6.9	-16.1		

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#5 2.7			tcp#6 3.4			tcp#7 4.0		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
04/20/86	0	6.2	--	6.5	-8.6	7.0	-16.1		
04/20/86	1200	6.1	--	6.4	-8.6	6.9	-16.1		
04/21/86	0	6.2	--	6.5	-8.6	7.1	-16.0		
04/21/86	1200	5.9	--	6.2	-9.0	6.8	-16.0		
04/22/86	0	6.3	--	6.6	-8.8	7.1	-15.9		
04/22/86	1200	6.0	--	6.3	-8.6	6.9	-16.2		
04/23/86	0	6.2	--	6.4	-8.8	7.0	-16.1		
04/23/86	1200	6.2	--	6.4	-8.8	7.0	-16.0		
04/24/86	0	6.3	--	6.5	-8.9	7.0	-15.9		
04/24/86	1200	6.3	--	6.5	-9.0	7.0	-16.1		
04/25/86	0	6.3	--	6.6	-8.7	7.1	-15.9		
04/25/86	1200	6.2	--	6.5	-8.8	7.0	-16.2		
04/26/86	0	6.3	--	6.5	-9.0	7.1	-16.0		
04/26/86	1200	6.3	--	6.5	-8.7	7.0	-15.9		
04/27/86	0	6.3	--	6.6	-8.3	7.0	-15.7		
04/27/86	1200	6.3	--	6.5	-8.4	7.0	-15.9		
04/28/86	0	6.3	--	6.6	-8.5	7.1	-15.8		
04/28/86	1200	6.3	--	6.5	-8.4	7.0	-16.0		
04/29/86	0	6.4	--	6.6	-8.5	7.1	-15.9		
04/29/86	1200	6.3	--	6.5	-8.2	7.0	-16.1		
04/30/86	0	6.3	--	6.4	-8.1	6.9	-15.8		
04/30/86	1200	6.4	--	6.5	-8.1	7.0	-15.8		
05/01/86	0	6.4	--	6.5	-8.2	6.9	-15.9		
05/01/86	1200	6.3	--	6.5	-8.4	6.9	-15.9		
05/02/86	0	6.4	--	6.6	-8.5	7.0	-15.7		
05/02/86	1200	6.3	--	6.5	-8.6	6.9	-15.8		
05/03/86	0	6.6	--	6.8	-8.7	7.2	-15.7		
05/03/86	1200	6.3	--	6.5	-8.8	6.9	-16.1		
05/04/86	0	6.7	--	6.8	-8.8	7.2	-15.8		
05/04/86	1200	6.5	--	6.7	-8.9	7.1	-16.0		
05/05/86	0	6.5	--	6.5	-8.7	6.9	-16.0		
05/05/86	1200	6.5	--	6.6	-8.8	7.0	-15.9		
05/06/86	0	6.6	--	6.7	-8.7	7.1	-15.7		
05/06/86	1200	6.6	--	6.7	-9.0	7.1	-15.8		
05/07/86	0	6.6	--	6.7	-8.9	7.1	-15.7		
05/07/86	1200	6.6	--	6.7	-8.9	7.0	-15.8		

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#5 2.7			tcp#6 3.4			tcp#7 4.0		
	Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	
05/08/86		0	6.6	--	6.7	-8.7	7.0	-15.7	
05/08/86		1200	6.6	--	6.8	-8.5	7.2	-15.7	
05/09/86		0	6.6	--	6.6	-8.5	7.0	-15.8	
05/09/86		1200	6.7	--	6.7	-8.7	7.1	-15.6	
05/10/86		0	6.7	--	6.8	-8.7	7.1	-15.9	
05/10/86		1200	6.7	--	6.7	-8.7	7.0	-16.1	
05/11/86		0	6.7	--	6.8	-8.9	7.1	-15.9	
05/11/86		1200	6.7	--	6.8	-8.7	7.1	-15.8	
05/12/86		0	6.8	--	6.8	-8.7	7.1	-15.7	
05/12/86		1200	6.7	--	6.7	-8.4	7.0	-15.6	
05/13/86		0	6.8	--	6.8	-8.7	7.1	-15.7	
05/13/86		1200	6.7	--	6.8	-8.6	7.0	-15.8	
05/14/86		0	6.8	--	6.8	-8.5	7.1	-15.7	
05/14/86		1200	6.8	--	6.8	-8.7	7.1	-15.8	
05/15/86		0	6.9	--	6.9	-8.6	7.2	-15.7	
05/15/86		1200	6.8	--	6.8	-8.5	7.0	-15.6	
05/16/86		0	6.8	--	6.8	-8.6	7.0	-15.8	
05/16/86		1200	6.8	--	6.9	-8.6	7.1	-15.7	
05/17/86		0	7.0	--	7.0	-8.6	7.2	-15.5	
05/17/86		1200	6.9	--	6.8	-8.6	7.1	-15.6	
05/18/86		0	6.9	--	6.9	-8.4	7.1	-15.8	
05/18/86		1200	6.8	--	6.8	-8.8	7.0	-15.8	
05/19/86		0	7.0	--	7.1	-8.8	7.3	-15.8	
05/19/86		1200	6.8	--	6.9	-8.8	7.0	-15.8	
05/20/86		0	7.1	--	7.1	-8.7	7.3	-15.6	
05/20/86		1200	6.8	--	6.9	-8.8	7.0	-15.9	
05/21/86		0	7.1	--	7.1	-8.7	7.3	-15.8	
05/21/86		1200	7.0	--	7.0	-8.9	7.1	-15.8	
05/22/86		0	7.0	--	7.0	-8.7	7.2	-15.8	
05/22/86		1200	7.0	--	7.0	-8.7	7.2	-15.7	
05/23/86		0	7.0	--	7.0	-8.4	7.1	-15.6	
05/23/86		1200	7.0	--	7.0	-8.6	7.1	-15.8	
05/24/86		0	7.0	--	7.0	-8.4	7.1	-15.7	
05/24/86		1200	7.0	--	7.0	-8.2	7.1	-15.8	
05/25/86		0	7.3	--	7.2	-8.0	7.4	-15.6	
05/25/86		1200	7.0	--	6.9	-8.1	7.1	-15.8	

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier		tcp#5		tcp#6		tcp#7	
Depth below land surface (meters)		2.7		3.4		4.0	
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
05/26/86	0	7.3	--	7.3	-8.0	7.4	-15.5
05/26/86	1200	7.0	--	6.9	-8.1	7.1	-15.7
05/27/86	0	7.3	--	7.3	-8.0	7.4	-15.4
05/27/86	1200	7.0	--	7.0	-8.1	7.1	-15.7
05/28/86	0	7.3	--	7.3	-7.8	7.4	-15.7
05/28/86	1200	7.1	--	7.0	-8.1	7.1	-15.9
05/29/86	0	7.3	--	7.3	-7.9	7.4	-15.5
05/29/86	1200	7.1	--	7.0	-8.3	7.2	-15.8
05/30/86	0	7.4	--	7.3	-8.0	7.4	-15.6
05/31/86	0	7.4	--	7.3	-8.0	7.4	-15.8
05/31/86	1200	7.2	--	7.1	-8.0	7.2	-15.7
06/01/86	0	7.4	--	7.3	-7.8	7.4	-15.5
06/01/86	1200	7.3	--	7.2	-7.9	7.2	-15.8
06/02/86	0	7.5	--	7.4	-7.6	7.4	-15.6
06/02/86	1200	7.3	--	7.1	-7.8	7.2	-15.8
06/03/86	0	7.5	--	7.4	-7.5	7.4	-15.6
06/03/86	1200	7.3	--	7.2	-7.8	7.2	-15.6
06/04/86	0	7.6	--	7.4	-7.5	7.4	-15.6
06/04/86	1200	7.4	--	7.3	-7.7	7.3	-15.7
06/05/86	0	7.6	--	7.4	-7.8	7.4	-15.5
06/05/86	1200	7.5	--	7.3	-7.9	7.3	-15.7
06/06/86	0	7.7	--	7.5	-7.6	7.5	-15.4
06/06/86	1200	7.5	--	7.3	-7.7	7.3	-15.6
06/07/86	0	7.7	--	7.5	-7.6	7.5	-15.5
06/07/86	1200	7.6	--	7.4	-7.6	7.3	-15.4
06/08/86	0	7.8	--	7.5	-7.5	7.4	-15.5
06/08/86	1200	7.7	--	7.4	-8.0	7.4	-15.6
06/09/86	0	7.8	--	7.5	-8.4	7.4	-15.6
06/09/86	1200	7.8	--	7.5	-9.0	7.4	-15.6
06/10/86	0	7.9	--	7.6	-9.2	7.5	-15.5
06/10/86	1200	7.8	--	7.4	--	7.3	-15.5
06/11/86	0	8.0	--	7.6	--	7.5	-15.3
06/11/86	1200	7.8	--	7.5	--	7.3	-15.4
06/12/86	0	8.0	--	7.7	--	7.5	-15.3
06/12/86	1200	7.9	--	7.5	--	7.3	-15.5
06/13/86	0	8.1	--	7.7	--	7.6	-15.2

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#5 2.7			tcp#6 3.4			tcp#7 4.0		
	Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil-water potential (bars)
06/13/86		1200	7.9	--	7.6	--	7.4	--	-15.5
06/14/86		0	8.2	--	7.8	--	7.6	--	-15.2
06/14/86		1200	8.1	--	7.6	--	7.4	--	-15.7
06/15/86		0	8.3	--	7.8	--	7.6	--	-15.4
06/15/86		1200	8.1	--	7.7	--	7.5	--	-15.6
06/16/86		0	8.4	--	7.9	--	7.7	--	-15.3
06/16/86		1200	8.2	--	7.7	--	7.4	--	-15.4
06/17/86		0	8.4	--	7.9	--	7.7	--	-15.3
06/17/86		1200	8.2	--	7.7	--	7.4	--	-15.5
06/18/86		0	8.5	--	8.0	--	7.7	--	-15.3
06/18/86		1200	8.3	--	7.7	--	7.4	--	-15.7
06/19/86		0	8.5	--	8.0	--	7.7	--	-15.3
06/19/86		1200	8.4	--	7.9	--	7.5	--	-15.3
06/20/86		0	8.7	--	8.1	--	7.8	--	-15.3
06/20/86		1200	8.4	--	7.9	--	7.5	--	-15.4
06/21/86		0	8.7	--	8.1	--	7.8	--	-15.3
06/21/86		1200	8.5	--	7.9	--	7.6	--	-15.5
06/22/86		0	8.7	--	8.2	--	7.8	--	-15.1
06/22/86		1200	8.6	--	8.0	--	7.6	--	-15.5
06/23/86		0	8.8	--	8.2	--	7.9	--	-15.2
06/23/86		1200	8.6	--	8.1	--	7.6	--	-15.4
06/24/86		0	8.9	--	8.3	--	7.9	--	-15.3
06/24/86		1200	8.7	--	8.1	--	7.6	--	-15.4
06/25/86		0	8.9	--	8.3	--	7.9	--	-15.3
06/25/86		1200	8.8	--	8.2	--	7.7	--	-15.4
06/26/86		0	8.9	--	8.3	--	7.9	--	-15.4
06/26/86		1200	8.7	--	8.0	--	7.5	--	-15.5
06/27/86		0	9.0	--	8.5	--	8.0	--	-15.2
06/27/86		1200	8.9	--	8.2	--	7.7	--	-15.4
06/28/86		0	9.1	--	8.5	--	8.0	--	-15.4
06/28/86		1200	8.9	--	8.3	--	7.8	--	-15.5
06/29/86		0	9.2	--	8.5	--	8.0	--	-15.2
06/29/86		1200	9.0	--	8.4	--	7.8	--	-15.3
06/30/86		0	9.3	--	8.6	--	8.0	--	-15.3
06/30/86		1200	9.1	--	8.4	--	7.8	--	-15.3
07/01/86		0	9.3	--	8.6	--	8.1	--	-15.3

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#5 2.7			tcp#6 3.4			tcp#7 4.0		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
07/01/86	1200	9.2	--	8.4	--	7.8	-15.4		
07/02/86	0	9.4	--	8.7	--	8.1	-15.1		
07/02/86	1200	9.2	--	8.4	--	7.8	-15.3		
07/03/86	0	9.4	--	8.7	--	8.1	-15.1		
07/03/86	1200	9.4	--	8.6	--	8.0	-15.4		
07/04/86	0	9.5	--	8.8	--	8.2	-15.3		
07/04/86	1200	9.4	--	8.6	--	8.0	-15.5		
07/05/86	0	9.7	--	8.8	--	8.2	-15.4		
07/05/86	1200	9.5	--	8.7	--	8.0	-15.3		
07/06/86	0	9.7	--	8.9	--	8.2	-15.1		
07/06/86	1200	9.5	--	8.7	--	8.0	-15.3		
07/07/86	0	9.7	--	8.9	--	8.2	-15.3		
07/07/86	1200	9.6	--	8.8	--	8.1	-15.3		
07/08/86	0	9.8	--	9.0	--	8.3	-15.1		
07/08/86	1200	9.7	--	8.8	--	8.1	-15.4		
07/09/86	0	9.9	--	9.0	--	8.3	-15.1		
07/09/86	1200	9.7	--	8.9	--	8.1	-15.4		
07/10/86	0	10.0	--	9.1	--	8.3	-15.1		
07/10/86	1200	9.8	--	9.0	--	8.2	-15.2		
07/11/86	0	10.0	--	9.2	--	8.4	-15.2		
07/11/86	1200	9.9	--	9.0	--	8.3	-15.4		
07/12/86	0	10.2	--	9.2	--	8.5	-15.1		
07/12/86	1200	9.9	--	9.1	--	8.2	-15.2		
07/13/86	0	10.2	--	9.3	--	8.5	-15.1		
07/13/86	1200	10.0	--	9.1	--	8.3	-15.1		
07/14/86	0	10.3	--	9.4	--	8.5	-14.9		
07/14/86	1200	10.0	--	9.2	--	8.3	-15.3		
07/15/86	0	10.3	--	9.4	--	8.6	-15.1		
07/15/86	1200	10.1	--	9.2	--	8.3	-15.3		
07/16/86	0	10.3	--	9.4	--	8.5	-15.2		
07/16/86	1200	10.2	--	9.3	--	8.4	-15.3		
07/17/86	0	10.5	--	9.5	--	8.6	-15.1		
07/17/86	1200	10.3	--	9.3	--	8.5	-15.1		
07/18/86	0	10.5	--	9.6	--	8.7	-15.3		
07/18/86	1200	10.4	--	9.5	--	8.5	-15.2		
07/19/86	0	10.6	--	9.7	--	8.7	-14.9		

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)		tcp#5 2.7			tcp#6 3.4			tcp#7 4.0		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil-water potential (bars)
07/19/86	1200	10.2	--	9.2	--	8.3	--	8.3	--	-15.1
07/20/86	0	10.7	--	9.7	--	8.8	--	8.8	--	-15.1
07/20/86	1200	10.3	--	9.3	--	8.4	--	8.4	--	-15.3
07/21/86	0	10.7	--	9.8	--	8.8	--	8.8	--	-15.1
07/21/86	1200	10.4	--	9.5	--	8.5	--	8.5	--	-15.2
07/22/86	0	10.7	--	9.8	--	8.8	--	8.8	--	-15.3
07/22/86	1200	10.5	--	9.5	--	8.6	--	8.6	--	-15.2
07/23/86	0	10.8	--	9.8	--	8.8	--	8.8	--	-15.2
07/23/86	1200	10.6	--	9.6	--	8.6	--	8.6	--	-15.2
07/24/86	0	10.8	--	9.7	--	8.9	--	8.9	--	-15.0
07/24/86	1200	10.7	--	9.8	--	8.7	--	8.7	--	-15.2
07/25/86	0	10.9	--	9.9	--	8.9	--	8.9	--	-15.1
07/25/86	1200	10.7	--	9.8	--	8.7	--	8.7	--	-15.1
07/26/86	0	11.0	--	10.0	--	8.9	--	8.9	--	-15.0
07/26/86	1200	10.8	--	9.8	--	8.7	--	8.7	--	-15.2
07/27/86	0	11.0	--	10.0	--	9.0	--	9.0	--	-15.1
07/27/86	1200	10.9	--	9.9	--	8.8	--	8.8	--	-15.4
07/28/86	0	11.1	--	10.1	--	9.1	--	9.1	--	-15.0
07/28/86	1200	10.9	--	9.9	--	8.8	--	8.8	--	-15.1
07/29/86	0	11.1	--	10.1	--	9.1	--	9.1	--	-15.0
07/29/86	1200	10.9	--	9.8	--	8.8	--	8.8	--	-15.0
07/30/86	0	11.2	--	10.1	--	9.1	--	9.1	--	-14.9
07/30/86	1200	11.0	--	10.1	--	8.9	--	8.9	--	-15.1
07/31/86	0	11.2	--	10.2	--	9.1	--	9.1	--	-15.2
07/31/86	1200	11.0	--	9.9	--	8.8	--	8.8	--	-15.4
08/01/86	0	11.3	--	10.3	--	9.2	--	9.2	--	-15.0
08/01/86	1200	11.0	--	10.0	--	8.9	--	8.9	--	-15.1
08/02/86	0	11.4	--	10.4	--	9.3	--	9.3	--	-15.0
08/02/86	1200	11.1	--	10.1	--	9.0	--	9.0	--	-15.2
08/03/86	0	11.4	--	10.3	--	9.3	--	9.3	--	-14.9
08/03/86	1200	11.1	--	10.1	--	9.0	--	9.0	--	-15.0
08/04/86	0	11.5	--	10.5	--	9.3	--	9.3	--	-15.0
08/04/86	1200	11.2	--	10.2	--	9.0	--	9.0	--	-15.2
08/05/86	0	11.5	--	10.5	--	9.4	--	9.4	--	-14.8
08/05/86	1200	11.1	--	10.1	--	9.0	--	9.0	--	-15.2
08/06/86	0	11.6	--	10.6	--	9.4	--	9.4	--	-15.1

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#5			tcp#6			tcp#7		
	2.7			3.4			4.0		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
08/06/86	1200	11.3	--	10.2	--	9.1	-15.3		
08/07/86	0	11.5	--	10.6	--	9.4	-15.1		
08/07/86	1200	11.3	--	10.3	--	9.2	-15.2		
08/08/86	0	11.6	--	10.6	--	9.4	-15.2		
08/08/86	1200	11.4	--	10.4	--	9.2	-15.1		
08/09/86	0	11.7	--	10.7	--	9.6	-15.1		
08/09/86	1200	11.5	--	10.4	--	9.3	-15.2		
08/10/86	0	11.7	--	10.7	--	9.6	-15.0		
08/10/86	1200	11.5	--	10.4	--	9.3	-15.1		
08/11/86	0	11.8	--	10.7	--	9.6	-14.9		
08/11/86	1200	11.6	--	10.5	--	9.4	-15.2		
08/12/86	0	11.8	--	10.8	--	9.6	-15.1		
08/12/86	1200	11.6	--	10.6	--	9.4	-15.2		
08/13/86	0	11.8	--	10.8	--	9.6	-15.2		
08/13/86	1200	11.6	--	10.6	--	9.4	-15.2		
08/14/86	0	11.9	--	10.9	--	9.7	-15.1		
08/14/86	1200	11.6	--	10.6	--	9.4	-15.1		
08/15/86	0	11.9	--	10.9	--	9.7	-14.9		
08/15/86	1200	11.7	--	10.7	--	9.5	-15.3		
08/16/86	0	12.0	--	11.0	--	9.8	-15.0		
08/16/86	1200	11.7	--	10.7	--	9.5	-15.2		
08/17/86	0	12.1	--	11.0	--	9.8	-15.2		
08/17/86	1200	11.8	--	10.7	--	9.5	-15.3		
08/18/86	0	12.1	--	11.0	--	9.8	-15.1		
08/18/86	1200	11.9	--	10.8	--	9.5	-15.3		
08/19/86	0	12.2	--	11.1	--	9.9	-15.1		
08/19/86	1200	12.0	--	10.9	--	9.7	-15.1		
08/20/86	0	12.2	--	11.1	--	9.9	-15.1		
08/20/86	1200	12.0	--	10.9	--	9.7	-15.1		
08/21/86	0	12.2	--	11.1	--	9.9	-15.2		
08/21/86	1200	12.1	--	11.0	--	9.8	-15.1		
08/22/86	0	12.3	--	11.2	--	10.0	-15.1		
08/22/86	1200	12.1	--	11.0	--	9.8	-15.1		
08/23/86	0	12.4	--	11.3	--	10.0	-15.1		
08/23/86	1200	12.2	--	11.1	--	9.9	-15.4		
08/24/86	0	12.4	--	11.3	--	10.0	-15.3		

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#5 2.7			tcp#6 3.4			tcp#7 4.0		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
08/24/86	1200	12.1	--	11.1	--	9.8	-15.2		
08/25/86	0	12.4	--	11.3	--	10.0	-15.1		
08/25/86	1200	12.2	--	11.1	--	9.9	-15.4		
08/26/86	0	12.5	--	11.4	--	10.1	-15.1		
08/26/86	1200	12.2	--	11.2	--	9.8	-15.2		
08/27/86	0	12.5	--	11.5	--	10.2	-15.2		
08/27/86	1200	12.3	--	11.2	--	9.9	-15.1		
08/28/86	0	12.6	--	11.5	--	10.2	-15.1		
08/28/86	1200	12.3	--	11.2	--	9.9	-15.3		
08/29/86	0	12.6	--	11.5	--	10.2	-15.0		
08/29/86	1200	12.4	--	11.4	--	10.1	-15.2		
08/30/86	0	12.6	--	11.5	--	10.2	-15.1		
08/30/86	1200	12.6	--	11.5	--	10.2	-15.3		
08/31/86	0	12.7	--	11.6	--	10.3	-15.1		
08/31/86	1200	12.6	--	11.4	--	10.1	-15.3		
09/01/86	0	12.7	--	11.6	--	10.3	-15.1		
09/01/86	1200	12.5	--	11.6	--	10.1	-15.2		
09/02/86	0	12.8	--	11.4	--	10.3	-15.0		
09/02/86	1200	12.6	--	11.5	--	10.1	-15.1		
09/03/86	0	12.8	--	11.7	--	10.4	-15.1		
09/03/86	1200	12.6	--	11.5	--	10.2	-15.1		
09/04/86	0	12.9	--	11.8	--	10.5	-15.2		
09/04/86	1200	12.6	--	11.5	--	10.2	-14.9		
09/05/86	0	12.9	--	11.8	--	10.5	-15.0		
09/05/86	1200	12.6	--	11.5	--	10.2	-15.3		
09/06/86	0	12.9	--	11.8	--	10.5	-14.9		
09/06/86	1200	12.7	--	11.7	--	10.3	-15.1		
09/07/86	0	13.0	--	11.9	--	10.5	-15.0		
09/07/86	1200	12.8	--	11.7	--	10.3	-15.1		
09/08/86	0	13.0	--	11.9	--	10.6	-15.0		
09/08/86	1200	12.8	--	11.7	--	10.3	-15.1		
09/09/86	0	12.9	--	11.9	--	10.6	-15.1		
09/09/86	1200	12.9	--	11.8	--	10.4	-15.1		
09/10/86	0	12.9	--	11.8	--	10.5	-15.1		
09/10/86	1200	12.8	--	11.8	--	10.5	-15.1		
09/11/86	0	13.0	--	11.9	--	10.6	-14.8		

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier		tcp#5			tcp#6			tcp#7		
Depth below land surface (meters)		2.7			3.4			4.0		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil-water potential (bars)
09/11/86	1200	12.9	--	11.8	--	10.4	--	10.4	--	-15.2
09/12/86	0	13.1	--	12.0	--	10.7	--	10.7	--	-15.0
09/12/86	1200	12.9	--	11.8	--	10.5	--	10.5	--	-15.1
09/13/86	0	13.1	--	12.0	--	10.7	--	10.7	--	-15.2
09/13/86	1200	12.9	--	11.9	--	10.5	--	10.5	--	-15.2
09/14/86	0	13.1	--	12.1	--	10.8	--	10.8	--	-15.0
09/14/86	1200	13.0	--	12.0	--	10.7	--	10.7	--	-15.1
09/15/86	0	13.0	--	12.0	--	10.7	--	10.7	--	-15.2
09/15/86	1200	13.0	--	11.9	--	10.6	--	10.6	--	-15.2
09/16/86	0	13.1	--	12.0	--	10.7	--	10.7	--	-15.0
09/16/86	1200	13.0	--	12.0	--	10.7	--	10.7	--	-15.1
09/17/86	0	13.0	--	12.1	--	10.8	--	10.8	--	-15.0
09/17/86	1200	13.0	--	12.0	--	10.7	--	10.7	--	-15.2
09/18/86	0	13.1	--	12.1	--	10.8	--	10.8	--	-15.3
09/18/86	1200	13.0	--	12.0	--	10.7	--	10.7	--	-15.3
09/19/86	0	13.0	--	12.1	--	10.9	--	10.9	--	-15.2
09/19/86	1200	13.0	--	12.0	--	10.7	--	10.7	--	-14.9
09/20/86	0	13.1	--	12.1	--	10.8	--	10.8	--	-15.2
09/20/86	1200	13.1	--	12.1	--	10.8	--	10.8	--	-15.2
09/21/86	0	13.1	--	12.2	--	10.9	--	10.9	--	-15.1
09/21/86	1200	13.0	--	12.1	--	10.8	--	10.8	--	-15.0
09/22/86	0	13.0	--	12.2	--	10.9	--	10.9	--	-14.9
09/22/86	1200	13.0	--	12.1	--	10.8	--	10.8	--	-15.0
09/23/86	0	13.1	--	12.3	--	11.0	--	11.0	--	-15.1
09/23/86	1200	12.9	--	12.1	--	10.8	--	10.8	--	-15.1
09/24/86	0	13.1	--	12.3	--	11.0	--	11.0	--	-15.1
09/24/86	1200	13.0	--	12.2	--	10.9	--	10.9	--	-15.1
09/25/86	0	13.0	--	12.2	--	10.9	--	10.9	--	-15.2
09/25/86	1200	13.0	--	12.2	--	11.0	--	11.0	--	-15.2
09/26/86	0	13.1	--	12.2	--	11.0	--	11.0	--	-15.1
09/26/86	1200	13.0	--	12.2	--	11.0	--	11.0	--	-14.9
09/27/86	0	13.1	--	12.1	--	10.9	--	10.9	--	-15.0
09/27/86	1200	13.0	--	12.2	--	11.0	--	11.0	--	-15.1
09/28/86	0	13.0	--	12.2	--	11.0	--	11.0	--	-15.0
09/28/86	1200	13.0	--	12.1	--	11.0	--	11.0	--	-15.1
09/29/86	0	13.0	--	12.1	--	11.0	--	11.0	--	-15.0

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor Identifier Depth below land surface (meters)	tcp#5 2.7			tcp#6 3.4			tcp#7 4.0		
	Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	
09/29/86	1200		12.9	--	12.1	--	11.0	-15.1	
09/30/86	0		12.9	--	12.2	--	11.1	-15.0	
09/30/86	1200		12.9	--	12.1	--	11.0	-15.0	
10/01/86	0		13.0	--	12.2	--	11.0	-15.1	
10/01/86	1200		12.8	--	12.2	--	11.0	-14.9	
10/02/86	0		12.8	--	12.2	--	11.1	-14.9	
10/02/86	1200		12.9	--	12.2	--	11.1	-15.1	
10/03/86	0		12.8	--	12.3	--	11.1	-14.9	
10/03/86	1200		12.8	--	12.1	--	11.0	-15.0	
10/04/86	0		12.9	--	12.1	--	11.1	-14.9	
10/04/86	1200		12.8	--	12.1	--	11.1	-14.9	
10/05/86	0		12.9	--	12.2	--	11.1	-14.8	
10/05/86	1200		12.7	--	12.1	--	11.1	-14.8	
10/06/86	0		12.9	--	12.2	--	11.2	-14.6	
10/06/86	1200		12.6	--	12.1	--	11.1	-14.9	
10/07/86	0		12.8	--	12.2	--	11.2	-14.8	
10/07/86	1200		12.6	--	12.1	--	11.0	-14.8	
10/08/86	0		12.7	--	12.3	--	11.3	-14.7	
10/08/86	1200		12.6	--	12.1	--	11.1	-14.9	
10/09/86	0		12.7	--	12.3	--	11.3	-14.7	
10/09/86	1200		12.4	--	12.1	--	11.1	-14.9	
10/10/86	0		12.7	--	12.2	--	11.3	-14.8	
10/10/86	1200		12.6	--	12.1	--	11.1	-14.8	
10/11/86	0		12.6	--	12.2	--	11.2	-14.9	
10/11/86	1200		12.5	--	12.1	--	11.2	-14.8	
10/12/86	0		12.6	--	12.0	--	11.1	-15.1	
10/12/86	1200		12.5	--	11.9	--	11.0	-15.0	
10/13/86	0		12.5	--	12.1	--	11.2	-14.7	
10/13/86	1200		12.4	--	11.9	--	11.1	-14.8	
10/14/86	0		12.5	--	12.0	--	11.2	-14.8	
10/14/86	1200		12.4	--	12.0	--	11.1	-14.8	
10/15/86	0		12.4	--	12.0	--	11.2	-14.8	
10/15/86	1200		12.4	--	11.9	--	11.1	-14.8	
10/16/86	0		12.4	--	12.0	--	11.2	-14.7	
10/16/86	1200		12.3	--	11.9	--	11.1	-14.9	
10/17/86	0		12.4	--	12.1	--	11.3	-14.9	

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)		tcp#5 2.7		tcp#6 3.4		tcp#7 4.0	
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
10/17/86	1200	12.3	--	11.8	--	11.1	-15.0
10/18/86	0	12.3	--	12.0	--	11.3	-14.9
10/18/86	1200	12.3	--	11.9	--	11.2	-14.7
10/19/86	0	12.2	--	12.0	--	11.2	-14.7
10/19/86	1200	12.2	--	11.9	--	11.2	-14.9
10/20/86	0	12.2	--	11.9	--	11.2	-14.8
10/20/86	1200	12.1	--	11.8	--	11.1	-14.9
10/21/86	0	12.2	--	11.9	--	11.2	-14.8
10/21/86	1200	12.0	--	11.7	--	11.1	-14.9
10/22/86	0	12.1	--	11.8	--	11.2	-14.8
10/22/86	1200	12.0	--	11.8	--	11.1	-14.8
10/23/86	0	12.1	--	11.9	--	11.2	-14.8
10/23/86	1200	12.0	--	11.7	--	11.1	-14.9
10/24/86	0	12.0	--	11.8	--	11.2	-14.8
10/25/86	0	12.0	--	11.7	--	11.1	-14.8
10/25/86	1200	11.9	--	11.7	--	11.1	-14.8
10/26/86	0	12.0	--	11.7	--	11.1	-14.6
10/26/86	1200	11.9	--	11.7	--	11.1	-14.8
10/27/86	0	11.9	--	11.7	--	11.1	-14.7
10/27/86	1200	11.8	--	11.6	--	11.1	-14.8
10/28/86	0	11.9	--	11.6	--	11.1	-14.5
10/28/86	1200	11.8	--	11.6	--	11.1	-14.7
10/29/86	0	11.8	--	11.6	--	11.1	-14.7
10/29/86	1200	11.7	--	11.6	--	11.1	-14.7
10/30/86	0	11.7	--	11.6	--	11.1	-14.6
10/30/86	1200	11.7	--	11.5	--	11.1	-14.6
10/31/86	0	11.7	--	11.6	--	11.2	-14.7
10/31/86	1200	11.7	--	11.6	--	11.1	-14.7
11/01/86	0	11.6	--	11.5	--	11.0	-14.7
11/01/86	1200	11.7	--	11.5	--	11.0	-14.5
11/02/86	0	11.6	--	11.5	--	11.1	-14.6
11/02/86	1200	11.6	--	11.4	--	11.0	-14.5
11/03/86	0	11.6	--	11.5	--	11.1	-14.6
11/03/86	1200	11.6	--	11.5	--	11.1	-14.6
11/04/86	0	11.5	--	11.4	--	11.0	-14.4
11/04/86	1200	11.5	--	11.4	--	11.0	-14.5

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#5 2.7			tcp#6 3.4			tcp#7 4.0		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
11/05/86	0	11.5	--	11.4	--	11.0	--	11.0	-14.6
11/05/86	1200	11.4	--	11.4	--	11.0	--	11.0	-14.7
11/06/86	0	11.4	--	11.4	--	11.4	--	11.0	-14.7
11/06/86	1200	11.4	--	11.4	--	11.4	--	11.0	-14.7
11/07/86	0	11.4	--	11.3	--	11.3	--	11.0	-14.7
11/07/86	1200	11.4	--	11.3	--	11.3	--	11.0	-15.0
11/08/86	0	11.4	--	11.3	--	11.3	--	11.0	-14.6
11/08/86	1200	11.4	--	11.4	--	11.4	--	11.1	-14.7
11/09/86	0	11.3	--	11.3	--	11.3	--	11.0	-14.5
11/09/86	1200	11.3	--	11.3	--	11.3	--	11.0	-14.3
11/10/86	0	11.2	--	11.2	--	11.2	--	10.9	-14.5
11/10/86	1200	11.2	--	11.2	--	11.2	--	10.9	-14.6
11/11/86	0	11.2	--	11.2	--	11.2	--	11.0	-14.5
11/11/86	1200	11.2	--	11.3	--	11.3	--	11.0	-14.6
11/12/86	0	11.2	--	11.2	--	11.2	--	11.0	-14.6
11/12/86	1200	11.1	--	11.1	--	11.1	--	10.9	-14.6
11/13/86	0	11.2	--	11.2	--	11.2	--	11.0	-14.5
11/13/86	1200	11.1	--	11.1	--	11.1	--	10.9	-14.6
11/14/86	0	11.1	--	11.1	--	11.1	--	10.9	-14.4
11/14/86	1200	11.1	--	11.1	--	11.1	--	10.9	-14.5
11/15/86	0	11.1	--	11.2	--	11.2	--	11.0	-14.5
11/15/86	1200	10.9	--	11.0	--	11.0	--	10.8	-14.6
11/16/86	0	10.9	--	11.0	--	11.0	--	10.9	-14.6
11/16/86	1200	10.9	--	11.0	--	11.0	--	10.9	-14.6
11/17/86	0	10.9	--	11.1	--	11.1	--	10.9	-14.6
11/17/86	1200	10.9	--	11.0	--	11.0	--	10.9	-14.5
11/18/86	0	10.9	--	11.0	--	11.0	--	10.8	-14.4
11/18/86	1200	10.8	--	10.9	--	10.9	--	10.8	-14.4
11/19/86	0	10.8	--	11.0	--	11.0	--	10.9	-14.5
11/19/86	1200	10.7	--	10.9	--	10.9	--	10.8	-14.4
11/20/86	0	10.8	--	10.9	--	10.9	--	10.8	-14.5
11/20/86	1200	10.7	--	10.9	--	10.9	--	10.8	-14.4
11/21/86	0	10.7	--	10.8	--	10.8	--	10.8	-14.3
11/21/86	1200	10.6	--	10.8	--	10.8	--	10.7	-14.5
11/22/86	0	10.6	--	10.8	--	10.8	--	10.7	-14.3
11/22/86	1200	10.6	--	10.8	--	10.8	--	10.8	-14.5

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#5		tcp#6		tcp#7			
	2.7		3.4		4.0			
	Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
11/23/86	0	10.6	--	--	10.8	--	10.8	-14.2
11/23/86	1200	10.5	--	--	10.8	--	10.8	-14.3
11/24/86	0	10.5	--	--	10.8	--	10.8	-14.3
11/24/86	1200	10.5	--	--	10.7	--	10.7	-14.3
11/25/86	0	10.4	--	--	10.7	--	10.7	-14.5
11/25/86	1200	10.4	--	--	10.6	--	10.6	-14.4
11/26/86	0	10.3	--	--	10.6	--	10.6	-14.4
11/26/86	1200	10.4	--	--	10.7	--	10.7	-14.3
11/27/86	0	10.3	--	--	10.5	--	10.6	-14.3
11/27/86	1200	10.2	--	--	10.5	--	10.6	-14.4
11/28/86	0	10.3	--	--	10.6	--	10.7	-14.1
11/28/86	1200	10.2	--	--	10.5	--	10.6	-14.4
11/29/86	0	10.2	--	--	10.6	--	10.7	-14.3
11/29/86	1200	10.2	--	--	10.5	--	10.6	-14.4
11/30/86	0	10.2	--	--	10.5	--	10.6	-14.3
11/30/86	1200	10.0	--	--	10.4	--	10.5	-14.3
12/01/86	0	10.0	--	--	10.4	--	10.5	-14.3
12/01/86	1200	10.0	--	--	10.4	--	10.5	-14.2
12/02/86	0	10.0	--	--	10.4	--	10.5	-14.4
12/02/86	1200	10.0	--	--	10.4	--	10.5	-14.3
12/03/86	0	9.9	--	--	10.2	--	10.4	-14.4
12/03/86	1200	9.9	--	--	10.3	--	10.5	-14.2
12/04/86	0	9.9	--	--	10.4	--	10.6	-14.1
12/04/86	1200	9.9	--	--	10.3	--	10.5	-14.3
12/05/86	0	9.9	--	--	10.3	--	10.5	-14.2
12/05/86	1200	9.8	--	--	10.2	--	10.4	-14.2
12/06/86	0	9.8	--	--	10.3	--	10.5	-14.3
12/06/86	1200	9.8	--	--	10.3	--	10.5	-14.3
12/07/86	0	9.7	--	--	10.2	--	10.5	-14.1
12/07/86	1200	9.6	--	--	10.1	--	10.4	-14.3
12/08/86	0	9.7	--	--	10.2	--	10.5	-14.1
12/08/86	1200	9.7	--	--	10.1	--	10.4	-14.2
12/09/86	0	9.5	--	--	10.0	--	10.3	-14.0
12/09/86	1200	9.5	--	--	9.9	--	10.3	-14.3
12/10/86	0	9.6	--	--	10.0	--	10.3	-14.2
12/10/86	1200	9.6	--	--	10.1	--	10.4	-14.1

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#5 2.7				tcp#6 3.4				tcp#7 4.0			
	Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
12/11/86		0	9.4	--	9.9	--	10.2	--	10.2	--	10.2	--
12/11/86		1200	9.4	--	9.9	--	10.3	--	10.3	--	10.3	--
12/12/86		0	9.4	--	9.9	--	10.3	--	10.3	--	10.3	--
12/12/86		1200	9.3	--	9.8	--	10.2	--	10.2	--	10.2	--
12/13/86		0	9.3	--	9.9	--	10.2	--	10.2	--	10.2	--
12/13/86		1200	9.5	--	10.0	--	10.4	--	10.4	--	10.4	--
12/14/86		0	9.3	--	9.8	--	10.3	--	10.3	--	10.3	--
12/14/86		1200	9.2	--	9.7	--	10.2	--	10.2	--	10.2	--
12/15/86		0	9.2	--	9.7	--	10.2	--	10.2	--	10.2	--
12/15/86		1200	9.1	--	9.7	--	10.1	--	10.1	--	10.1	--
12/16/86		0	9.1	--	9.6	--	10.1	--	10.1	--	10.1	--
12/16/86		1200	9.1	--	9.7	--	10.2	--	10.2	--	10.2	--
12/17/86		0	9.0	--	9.6	--	10.0	--	10.0	--	10.0	--
12/17/86		1200	9.0	--	9.6	--	10.1	--	10.1	--	10.1	--
12/18/86		0	9.0	--	9.6	--	10.1	--	10.1	--	10.1	--
12/18/86		1200	8.9	--	9.5	--	10.0	--	10.0	--	10.0	--
12/19/86		0	8.9	--	9.5	--	10.0	--	10.0	--	10.0	--
12/19/86		1200	8.9	--	9.5	--	10.1	--	10.1	--	10.1	--
12/20/86		0	8.9	--	9.5	--	10.0	--	10.0	--	10.0	--
12/20/86		1200	8.8	--	9.4	--	9.9	--	9.9	--	9.9	--
12/21/86		0	8.8	--	9.4	--	10.0	--	10.0	--	10.0	--
12/21/86		1200	8.8	--	9.5	--	10.0	--	10.0	--	10.0	--
12/22/86		0	8.7	--	9.4	--	9.9	--	9.9	--	9.9	--
12/22/86		1200	8.7	--	9.4	--	9.9	--	9.9	--	9.9	--
12/23/86		0	8.7	--	9.4	--	9.9	--	9.9	--	9.9	--
12/23/86		1200	8.6	--	9.3	--	9.9	--	9.9	--	9.9	--
12/24/86		0	8.6	--	9.3	--	9.8	--	9.8	--	9.8	--
12/24/86		1200	8.6	--	9.3	--	9.8	--	9.8	--	9.8	--
12/25/86		0	8.4	--	9.1	--	9.8	--	9.8	--	9.8	--
12/25/86		1200	8.5	--	9.2	--	9.8	--	9.8	--	9.8	--
12/26/86		0	8.4	--	9.2	--	9.8	--	9.8	--	9.8	--
12/26/86		1200	8.4	--	9.2	--	9.8	--	9.8	--	9.8	--
12/27/86		0	8.3	--	9.1	--	9.8	--	9.8	--	9.8	--
12/27/86		1200	8.3	--	9.1	--	9.8	--	9.8	--	9.8	--
12/28/86		0	8.4	--	9.1	--	9.8	--	9.8	--	9.8	--
12/28/86		1200	8.2	--	8.9	--	9.6	--	9.6	--	9.6	--

Table 1.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)		tcp#5 2.7		tcp#6 3.4		tcp#7 4.0	
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
12/29/86	0	8.2	--	8.9	--	9.7	-14.0
12/29/86	1200	8.1	--	8.9	--	9.6	-14.1
12/30/86	0	8.1	--	8.9	--	9.7	-14.0
12/30/86	1200	8.1	--	8.8	--	9.6	-13.8
12/31/86	0	8.1	--	8.9	--	9.6	-13.7
12/31/86	1200	8.1	--	8.9	--	9.6	-14.0

Table 2.--Temperature and soil-water potential for undisturbed soil beneath the horizontal
culvert at the west test trench

Sensor identifier		tcp#14			tcp#15			tcp#10			tcp#11		
Depth below land surface (meters)		3.8			4.1			5.4			6.1		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
11/09/85	0	10.4	-19.6	10.4	-14.0	10.0	-13.4	9.6	-15.3				
11/09/85	1200	10.3	-19.5	10.4	-14.0	9.8	-4.0	9.4	-15.7				
11/10/85	0	10.3	-19.6	10.5	-13.8	10.0	-3.9	9.5	-15.5				
11/10/85	1200	10.2	-19.7	10.4	-14.0	9.8	-3.9	9.4	-15.6				
11/11/85	0	10.2	-19.6	10.4	-13.9	9.8	-4.0	9.4	-15.3				
11/11/85	1200	10.3	-19.5	10.4	-14.0	9.9	-3.9	9.5	-15.3				
11/12/85	0	10.1	-19.5	10.4	-13.9	9.8	-3.9	9.4	-15.4				
11/12/85	1200	10.3	-19.4	10.4	-14.0	9.9	-4.0	9.6	-15.2				
11/13/85	0	10.2	-19.3	10.3	-13.8	9.9	-4.0	9.5	-15.2				
11/13/85	1200	10.3	-19.2	10.3	-13.7	9.9	-3.9	9.5	-14.9				
11/14/85	0	10.3	-19.4	10.4	-13.7	9.9	-3.9	9.6	-15.0				
11/14/85	1200	10.2	-19.2	10.3	-13.9	9.9	-3.9	9.6	-14.9				
11/15/85	0	10.1	-19.2	10.3	-13.7	9.7	-3.8	9.4	-14.8				
11/15/85	1200	10.2	-19.2	10.3	-13.7	9.8	-3.8	9.5	-14.7				
11/16/85	0	10.1	-19.4	10.3	-13.8	9.8	-3.9	9.5	-14.7				
11/16/85	1200	10.2	-19.3	10.3	-13.8	9.9	-3.9	9.6	-14.6				
11/17/85	0	10.2	-19.3	10.3	-13.9	9.9	-3.8	9.6	-14.2				
11/17/85	1200	10.2	-19.4	10.3	-13.8	9.9	-3.9	9.6	-14.3				
11/18/85	0	10.2	-19.5	10.3	-13.9	9.9	-3.8	9.6	-14.1				
11/18/85	1200	10.2	-19.7	10.2	-13.8	10.0	-3.9	9.6	-14.0				
11/19/85	0	10.1	-19.1	10.3	-13.7	9.9	-3.9	9.6	-13.6				
11/19/85	1200	10.1	-19.1	10.2	-13.7	9.8	-4.0	9.5	-13.3				
11/20/85	0	10.1	-19.3	10.3	-13.7	9.9	-3.9	9.6	-13.2				
11/20/85	1200	9.8	-19.1	10.2	-13.8	9.7	-3.8	9.3	-13.2				
11/21/85	0	10.1	-18.8	10.2	-13.9	10.0	-4.0	9.6	-12.9				
11/21/85	1200	9.8	-18.3	10.1	-13.8	9.7	-3.8	9.4	-12.9				
11/22/85	0	9.7	-17.0	10.2	-13.7	9.7	-4.1	9.3	-12.6				
11/22/85	1200	9.9	-16.2	10.2	-13.6	9.8	-4.0	9.5	-12.2				
11/23/85	0	9.8	-15.0	10.2	-13.4	9.8	-4.0	9.4	-12.1				
11/23/85	1200	9.7	-13.9	10.1	-13.3	9.7	-4.0	9.4	-12.1				
11/24/85	0	9.6	-13.0	10.2	-13.3	9.7	-4.0	9.3	-11.9				
11/24/85	1200	9.6	-11.7	10.1	-13.3	9.7	-4.0	9.3	-12.0				
11/25/85	0	9.8	-10.9	10.1	-13.1	9.9	-3.8	9.6	-11.5				
11/25/85	1200	9.6	-10.2	10.0	-13.2	9.8	-3.9	9.5	-11.6				
11/26/85	0	9.7	-9.2	10.0	-13.0	9.8	-3.9	9.5	-11.4				
11/26/85	1200	9.5	-8.5	10.0	-12.8	9.7	-3.9	9.4	-10.9				

Table 2.--Temperature and soil-water potential for undisturbed soil beneath the horizontal
culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#14 3.8			tcp#15 4.1			tcp#10 5.4			tcp#11 6.1		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
11/27/85	0	9.5	-7.6	10.1	-12.6	9.7	9.7	-3.9	9.4	-11.2	9.4	-11.2
11/27/85	1200	9.6	-7.2	10.0	-12.6	9.7	9.7	-3.9	9.5	-11.0	9.5	-11.0
11/28/85	0	9.7	-6.7	10.0	-12.5	9.8	9.8	-3.9	9.6	-10.9	9.6	-10.9
11/28/85	1200	9.5	-6.0	10.0	-12.4	9.8	9.8	-4.0	9.5	-11.0	9.5	-11.0
11/29/85	0	9.4	-5.5	9.9	-12.4	9.7	9.7	-3.9	9.4	-11.0	9.4	-11.0
11/29/85	1200	9.6	-5.2	9.9	-12.4	9.8	9.8	-4.0	9.6	-10.8	9.6	-10.8
11/30/85	0	9.3	-5.1	9.9	-12.3	9.6	9.6	-3.8	9.3	-10.8	9.3	-10.8
11/30/85	1200	9.6	-5.0	9.9	-12.1	9.9	9.9	-4.0	9.7	-10.4	9.7	-10.4
12/01/85	0	9.2	-4.6	9.9	-12.1	9.6	9.6	-3.9	9.3	-10.4	9.3	-10.4
12/01/85	1200	9.3	-4.6	9.9	-12.0	9.7	9.7	-3.8	9.4	-10.5	9.4	-10.5
12/02/85	0	9.3	-4.5	9.8	-12.0	9.6	9.6	-3.8	9.4	-10.3	9.4	-10.3
12/02/85	1200	9.4	-4.5	9.8	-12.1	9.8	9.8	-3.9	9.5	-10.4	9.5	-10.4
12/03/85	0	9.4	-4.5	9.8	-12.1	9.8	9.8	-3.9	9.6	-10.3	9.6	-10.3
12/03/85	1200	9.2	-4.5	9.7	-12.0	9.6	9.6	-4.0	9.4	-10.3	9.4	-10.3
12/04/85	0	9.4	-4.6	9.8	-11.8	9.7	9.7	-3.8	9.5	-10.1	9.5	-10.1
12/04/85	1200	9.3	-4.5	9.7	-11.9	9.7	9.7	-3.9	9.5	-10.0	9.5	-10.0
12/05/85	0	9.2	-4.5	9.7	-11.7	9.6	9.6	-4.0	9.4	-10.0	9.4	-10.0
12/05/85	1200	9.1	-4.5	9.7	-11.9	9.6	9.6	-3.9	9.4	-9.9	9.4	-9.9
12/06/85	0	9.3	-5.5	9.7	-11.8	9.8	9.8	-4.0	9.6	-9.9	9.6	-9.9
12/06/85	1200	9.2	-5.5	9.6	-11.8	9.6	9.6	-4.0	9.5	-9.9	9.5	-9.9
12/07/85	0	9.3	-5.3	9.6	-11.8	9.7	9.7	-3.9	9.6	-9.8	9.6	-9.8
12/07/85	1200	9.2	-5.4	9.7	-11.9	9.7	9.7	-4.1	9.5	-10.0	9.5	-10.0
12/08/85	0	9.2	-5.2	9.6	-11.8	9.7	9.7	-3.9	9.6	-10.0	9.6	-10.0
12/08/85	1200	9.1	-5.4	9.6	-11.9	9.6	9.6	-3.9	9.4	-9.8	9.4	-9.8
12/09/85	0	9.2	-5.4	9.6	-11.8	9.6	9.6	-4.0	9.5	-10.0	9.5	-10.0
12/09/85	1200	9.4	-5.5	9.5	-11.7	9.8	9.8	-4.0	9.8	-10.0	9.8	-10.0
12/10/85	0	9.0	-5.7	9.6	-11.7	9.6	9.6	-3.9	9.4	-10.0	9.4	-10.0
12/10/85	1200	9.2	-5.5	9.5	-11.9	9.7	9.7	-3.9	9.6	-9.8	9.6	-9.8
12/11/85	0	8.9	-5.5	9.6	-11.6	9.5	9.5	-4.0	9.3	-10.0	9.3	-10.0
12/11/85	1200	9.0	-5.6	9.5	-11.9	9.4	9.4	-4.0	9.3	-10.0	9.3	-10.0
12/12/85	0	9.1	-5.6	9.6	-11.9	9.6	9.6	-3.9	9.5	-10.1	9.5	-10.1
12/12/85	1200	9.1	-5.7	9.5	-12.0	9.5	9.5	-4.0	9.4	-10.3	9.4	-10.3
12/13/85	0	9.0	-5.5	9.6	-11.9	9.5	9.5	-3.9	9.3	-10.3	9.3	-10.3
12/13/85	1200	9.2	-5.6	9.5	-11.8	9.6	9.6	-3.9	9.5	-10.2	9.5	-10.2
12/14/85	0	9.1	-5.5	9.5	-11.9	9.6	9.6	-4.0	9.5	-10.1	9.5	-10.1
12/14/85	1200	9.1	-5.6	9.5	-12.0	9.5	9.5	-3.9	9.4	-10.5	9.4	-10.5

Table 2.---Temperature and soil-water potential for undisturbed soil beneath the horizontal
culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#14			tcp#15			tcp#10			tcp#11		
	3.8			4.1			5.4			6.1		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)
12/15/85	0	9.0	-5.5	9.5	-11.9	9.4	-3.8	9.3	-10.2	9.3	-10.2	9.3
12/15/85	1200	8.9	-5.5	9.5	-11.9	9.4	-3.9	9.3	-10.5	9.3	-10.5	9.3
12/16/85	0	9.2	-5.4	9.5	-11.9	9.5	-3.9	9.5	-10.3	9.5	-10.3	9.5
12/16/85	1200	8.9	-5.5	9.5	-12.0	9.4	-3.8	9.3	-10.2	9.3	-10.2	9.3
12/17/85	0	8.8	-5.4	9.5	-12.0	9.4	-3.8	9.3	-10.4	9.3	-10.4	9.3
12/17/85	1200	8.9	-5.3	9.4	-12.0	9.3	-3.9	9.3	-10.3	9.3	-10.3	9.3
12/18/85	0	8.9	-5.1	9.5	-12.0	9.4	-4.0	9.3	-10.1	9.3	-10.1	9.3
12/18/85	1200	9.0	-5.3	9.4	-11.9	9.5	-4.0	9.4	-10.3	9.4	-10.3	9.4
12/19/85	0	8.9	-5.1	9.4	-11.8	9.4	-3.8	9.3	-10.3	9.3	-10.3	9.3
12/19/85	1200	9.0	-5.1	9.3	-11.9	9.4	-4.1	9.4	-10.5	9.4	-10.5	9.4
12/20/85	0	9.0	-5.2	9.4	-11.9	9.5	-3.9	9.5	-10.5	9.5	-10.5	9.5
12/20/85	1200	8.8	-5.1	9.4	-11.9	9.3	-3.8	9.3	-10.4	9.3	-10.4	9.3
12/21/85	0	8.9	-5.2	9.4	-12.0	9.4	-3.9	9.4	-10.6	9.4	-10.6	9.4
12/21/85	1200	8.9	-5.2	9.3	-12.0	9.3	-3.9	9.3	-10.8	9.4	-10.8	9.4
12/22/85	0	8.9	-5.1	9.4	-11.9	9.5	-3.9	9.5	-10.7	9.5	-10.7	9.5
12/22/85	1200	8.8	-5.3	9.3	-12.0	9.4	-4.0	9.4	-10.9	9.4	-10.9	9.4
12/23/85	0	8.9	-5.5	9.4	-11.8	9.5	-4.0	9.5	-10.9	9.5	-10.9	9.5
12/23/85	1200	8.8	-5.2	9.3	-11.9	9.3	-4.0	9.3	-11.0	9.3	-11.0	9.3
12/24/85	0	8.9	-5.3	9.3	-12.0	9.5	-4.0	9.5	-11.1	9.5	-11.1	9.5
12/24/85	1200	8.7	-5.3	9.2	-11.9	9.4	-4.0	9.4	-11.1	9.3	-11.1	9.3
12/25/85	0	8.6	-5.0	9.3	-11.9	9.2	-3.9	9.2	-11.0	9.2	-11.0	9.2
12/25/85	1200	8.6	-5.2	9.2	-11.9	9.3	-4.1	9.3	-11.2	9.3	-11.2	9.3
12/26/85	0	8.7	-5.3	9.2	-11.9	9.4	-3.9	9.4	-11.3	9.4	-11.3	9.4
12/26/85	1200	8.7	-5.1	9.2	-12.0	9.3	-4.0	9.3	-11.2	9.3	-11.2	9.3
12/27/85	0	8.7	-5.3	9.2	-11.9	9.3	-3.8	9.3	-11.5	9.3	-11.5	9.3
12/27/85	1200	8.6	-5.3	9.2	-12.0	9.3	-3.9	9.3	-11.5	9.3	-11.5	9.3
12/28/85	0	8.5	-5.2	9.2	-11.9	9.3	-4.1	9.2	-11.6	9.2	-11.6	9.2
12/28/85	1200	8.6	-5.1	9.1	-12.1	9.3	-3.9	9.3	-11.5	9.3	-11.5	9.3
12/29/85	0	8.4	-5.2	9.2	-12.0	9.2	-4.1	9.2	-11.8	9.2	-11.8	9.2
12/29/85	1200	8.6	-5.1	9.1	-12.0	9.3	-4.0	9.3	-11.7	9.4	-11.7	9.4
12/30/85	0	8.6	-5.1	9.1	-11.9	9.3	-4.0	9.3	-11.7	9.3	-11.7	9.3
12/30/85	1200	8.3	-5.4	9.1	-12.1	9.1	-4.1	9.1	-12.0	9.2	-12.0	9.2
12/31/85	0	8.5	-5.1	9.1	-11.9	9.3	-4.0	9.3	-11.9	9.3	-11.9	9.3
12/31/85	1200	8.4	-5.3	9.0	-12.0	9.2	-3.9	9.2	-12.0	9.2	-12.0	9.2
01/01/86	0	8.4	-5.0	9.1	-12.0	9.1	-4.0	9.1	-12.2	9.2	-12.2	9.2
01/01/86	1200	8.4	-5.2	9.1	-12.0	9.2	-3.9	9.2	-12.3	9.2	-12.3	9.2

Table 2.--Temperature and soil-water potential for undisturbed soil beneath the horizontal
culvert at the west test trench--Continued

Sensor identifier	tcp#14				tcp#15				tcp#10				tcp#11			
Depth below land surface (meters)	3.8				4.1				5.4				6.1			
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	
01/02/86	0	8.5	-5.3	9.0	-12.0	9.3	-3.9	9.3	-12.8	9.3	-12.8	9.3	-12.8	9.3	-12.8	
01/02/86	1200	8.2	-5.4	9.0	-12.0	9.1	-4.0	9.1	-13.1	9.2	-13.1	9.2	-13.1	9.2	-13.1	
01/03/86	0	8.5	-5.4	9.0	-12.1	9.3	-4.1	9.3	-13.1	9.4	-13.1	9.4	-13.1	9.4	-13.1	
01/03/86	1200	8.4	-5.3	8.9	-12.2	9.2	-4.0	9.2	-13.2	9.3	-13.2	9.3	-13.2	9.3	-13.2	
01/04/86	0	8.3	-5.4	8.9	-12.1	9.0	-4.0	9.0	-12.9	9.1	-12.9	9.1	-12.9	9.1	-12.9	
01/04/86	1200	8.4	-5.0	8.9	-12.0	9.2	-4.0	9.2	-13.0	9.3	-13.0	9.3	-13.0	9.3	-13.0	
01/05/86	0	8.3	-5.4	9.0	-11.9	9.2	-3.9	9.2	-13.4	9.2	-13.4	9.2	-13.4	9.2	-13.4	
01/05/86	1200	8.1	-5.4	8.9	-12.0	9.0	-3.9	9.0	-13.2	9.1	-13.2	9.1	-13.2	9.1	-13.2	
01/06/86	0	8.2	-5.1	8.9	-12.2	9.0	-4.1	9.0	-13.1	9.1	-13.1	9.1	-13.1	9.1	-13.1	
01/06/86	1200	8.4	-5.4	8.8	-12.1	9.2	-3.9	9.2	-12.9	9.3	-12.9	9.3	-12.9	9.3	-12.9	
01/07/86	0	8.2	-5.2	8.9	-12.0	9.0	-4.0	9.0	-13.0	9.1	-13.0	9.1	-13.0	9.1	-13.0	
01/07/86	1200	8.2	-5.2	8.9	-11.7	9.0	-4.0	9.0	-12.8	9.1	-12.8	9.1	-12.8	9.1	-12.8	
01/08/86	0	8.3	-5.4	8.9	-11.9	9.2	-3.9	9.2	-12.8	9.3	-12.8	9.3	-12.8	9.3	-12.8	
01/08/86	1200	8.0	-5.2	8.8	-11.9	8.9	-3.9	8.9	-13.0	9.0	-13.0	9.0	-13.0	9.0	-13.0	
01/09/86	0	8.0	-5.2	8.8	-12.0	8.9	-4.0	8.9	-13.0	9.0	-13.0	9.0	-13.0	9.0	-13.0	
01/09/86	1200	8.0	-5.1	8.8	-11.9	8.8	-4.1	8.8	-12.9	9.0	-12.9	9.0	-12.9	9.0	-12.9	
01/10/86	0	8.2	-5.1	8.8	-11.9	9.0	-3.9	9.0	-13.0	9.2	-13.0	9.2	-13.0	9.2	-13.0	
01/10/86	1200	8.2	-5.4	8.7	-12.0	9.0	-4.0	9.0	-13.0	9.2	-13.0	9.2	-13.0	9.2	-13.0	
01/11/86	0	8.2	-5.3	8.8	-11.8	9.1	-4.0	9.1	-12.9	9.2	-12.9	9.2	-12.9	9.2	-12.9	
01/11/86	1200	8.0	-5.4	8.7	-11.8	8.8	-4.0	8.8	-13.0	9.0	-13.0	9.0	-13.0	9.0	-13.0	
01/12/86	0	7.9	-5.2	8.8	-11.8	8.8	-3.9	8.8	-13.0	9.0	-13.0	9.0	-13.0	9.0	-13.0	
01/12/86	1200	8.1	-5.4	8.7	-12.0	9.0	-4.1	9.0	-12.9	9.2	-12.9	9.2	-12.9	9.2	-12.9	
01/13/86	0	8.1	-5.3	8.7	-12.0	9.0	-4.0	9.0	-12.9	9.1	-12.9	9.1	-12.9	9.1	-12.9	
01/13/86	1200	8.1	-5.2	8.6	-12.1	9.0	-4.0	9.0	-13.0	9.1	-13.0	9.1	-13.0	9.1	-13.0	
01/14/86	0	8.2	-5.3	8.7	-11.9	9.1	-4.0	9.1	-13.2	9.3	-13.2	9.3	-13.2	9.3	-13.2	
01/14/86	1200	8.0	-5.5	8.6	-12.1	8.9	-4.1	8.9	-13.0	9.1	-13.0	9.1	-13.0	9.1	-13.0	
01/15/86	0	7.9	-5.3	8.7	-12.1	8.9	-4.1	8.9	-13.2	9.0	-13.2	9.0	-13.2	9.0	-13.2	
01/15/86	1200	8.1	-5.1	8.6	-12.1	9.1	-4.1	9.1	-13.0	9.3	-13.0	9.3	-13.0	9.3	-13.0	
01/16/86	0	8.0	-5.3	8.6	-12.1	8.9	-4.0	8.9	-12.9	9.1	-12.9	9.1	-12.9	9.1	-12.9	
01/16/86	1200	7.9	-5.2	8.6	-12.1	8.8	-3.9	8.8	-12.9	9.0	-12.9	9.0	-12.9	9.0	-12.9	
01/17/86	0	8.0	-5.3	8.6	-12.0	8.9	-4.1	8.9	-13.1	9.1	-13.1	9.1	-13.1	9.1	-13.1	
01/17/86	1200	8.0	-5.4	8.5	-12.1	9.0	-4.0	9.0	-13.0	9.2	-13.0	9.2	-13.0	9.2	-13.0	
01/18/86	0	7.8	-5.5	8.6	-12.0	8.8	-4.1	8.8	-13.1	9.0	-13.1	9.0	-13.1	9.0	-13.1	
01/18/86	1200	8.0	-5.3	8.6	-12.0	9.0	-3.9	9.0	-12.8	9.2	-12.8	9.2	-12.8	9.2	-12.8	
01/19/86	0	8.0	-5.3	8.6	-12.1	9.0	-4.0	9.0	-13.1	9.2	-13.1	9.2	-13.1	9.2	-13.1	
01/19/86	1200	8.0	-5.5	8.5	-12.2	8.9	-4.1	8.9	-13.0	9.2	-13.0	9.2	-13.0	9.2	-13.0	

Table 2.--Temperature and soil-water potential for undisturbed soil beneath the horizontal
culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#14 3.8			tcp#15 4.1			tcp#10 5.4			tcp#11 6.1		
	Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
01/20/86	0		7.8	-5.3	8.5	-12.2	8.8	-4.1	9.0	-13.2	9.0	-13.2
01/20/86	1200		8.0	-5.4	8.5	-12.1	8.9	-4.0	9.2	-13.1	9.2	-13.1
01/21/86	0		8.0	-5.5	8.5	-12.1	9.0	-4.1	9.2	-13.0	9.2	-13.0
01/21/86	1200		7.9	-5.3	8.4	-12.0	8.9	-4.1	9.1	-13.0	9.1	-13.0
01/22/86	0		8.0	-5.4	8.5	-12.1	8.9	-4.0	9.2	-13.0	9.2	-13.0
01/22/86	1200		7.9	-5.1	8.4	-12.1	8.9	-4.0	9.1	-13.0	9.1	-13.0
01/23/86	0		7.8	-5.4	8.5	-12.1	8.8	-4.0	9.0	-13.1	9.0	-13.1
01/23/86	1200		7.9	-5.4	8.4	-12.2	8.9	-4.2	9.2	-12.8	9.2	-12.8
01/24/86	0		7.8	-5.4	8.4	-12.0	8.9	-4.1	9.1	-12.9	9.1	-12.9
01/24/86	1200		7.5	-5.0	8.4	-12.1	8.6	-4.1	8.8	-12.8	8.8	-12.8
01/25/86	0		7.7	-5.2	8.4	-12.0	8.7	-4.3	8.9	-13.0	8.9	-13.0
01/25/86	1200		7.8	-5.2	8.4	-12.0	8.9	-4.1	9.1	-12.7	9.1	-12.7
01/26/86	0		7.8	-5.3	8.4	-11.9	8.8	-4.0	9.0	-13.0	9.0	-13.0
01/26/86	1200		7.7	-5.3	8.3	-12.2	8.7	-4.1	9.0	-13.2	9.0	-13.2
01/27/86	0		7.7	-5.3	8.4	-12.1	8.8	-4.0	9.1	-13.1	9.1	-13.1
01/27/86	1200		7.7	-5.2	8.2	-12.1	8.7	-4.0	9.0	-13.1	9.0	-13.1
01/28/86	0		7.5	-5.3	8.3	-12.2	8.6	-4.1	8.9	-13.3	8.9	-13.3
01/28/86	1200		7.6	-5.3	8.3	-12.2	8.6	-4.2	8.9	-13.2	8.9	-13.2
01/29/86	0		7.7	-5.6	8.3	-12.3	8.8	-4.0	9.1	-13.3	9.1	-13.3
01/29/86	1200		7.7	-5.4	8.2	-12.2	8.7	-4.1	9.0	-13.2	9.0	-13.2
01/30/86	0		7.6	-5.4	8.2	-12.2	8.7	-4.1	9.0	-13.4	9.0	-13.4
01/30/86	1200		7.6	-5.4	8.2	-12.3	8.7	-4.0	9.0	-13.3	9.0	-13.3
01/31/86	0		7.7	-5.3	8.2	-12.2	8.7	-4.1	9.0	-13.4	9.0	-13.4
01/31/86	1200		7.6	-5.4	8.2	-12.2	8.7	-3.9	9.0	-13.9	9.0	-13.9
02/01/86	0		7.4	-5.3	8.2	-12.2	8.6	-4.1	8.8	-13.7	8.8	-13.7
02/01/86	1200		7.6	-5.3	8.2	-12.2	8.6	-4.0	8.9	-13.8	8.9	-13.8
02/02/86	0		7.5	-5.2	8.2	-12.2	8.6	-3.9	8.8	-13.8	8.8	-13.8
02/02/86	1200		7.5	-5.5	8.1	-12.3	8.7	-4.0	8.9	-13.9	8.9	-13.9
02/03/86	0		7.7	-5.3	8.1	-12.3	8.8	-4.0	9.1	-13.8	9.1	-13.8
02/03/86	1200		7.6	-5.3	8.1	-12.2	8.6	-4.1	8.9	-13.7	8.9	-13.7
02/04/86	0		7.5	-5.2	8.2	-12.2	8.5	-4.0	8.8	-14.0	8.8	-14.0
02/04/86	1200		7.4	-5.6	8.1	-12.4	8.6	-4.1	8.9	-13.8	8.9	-13.8
02/05/86	0		7.4	-5.2	8.2	-12.2	8.4	-4.1	8.8	-13.7	8.8	-13.7
02/05/86	1200		7.5	-5.1	8.1	-12.3	8.5	-4.0	8.8	-13.8	8.8	-13.8
02/06/86	0		7.5	-5.8	8.1	-12.3	8.6	-4.1	8.9	-14.0	8.9	-14.0
02/06/86	1200		7.5	-5.6	8.0	-12.4	8.5	-4.0	8.8	-13.8	8.8	-13.8

Table 2.---Temperature and soil-water potential for undisturbed soil beneath the horizontal
culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#14			tcp#15			tcp#10			tcp#11		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
02/07/86	0	7.5	-5.6	8.1	-12.2	8.6		-4.0	8.9	-13.5		
02/07/86	1200	7.4	-5.5	7.9	-12.3	8.5		-4.0	8.8	-13.9		
02/08/86	0	7.6	-5.9	8.1	-12.3	8.6		-4.2	9.0	-13.6		
02/08/86	1200	7.4	-5.5	8.0	-12.2	8.5		-4.1	8.9	-13.9		
02/09/86	0	7.4	-5.7	8.1	-12.3	8.6		-4.0	8.9	-13.7		
02/09/86	1200	7.4	-5.6	8.0	-12.3	8.5		-4.2	8.9	-13.8		
02/10/86	0	7.3	-5.8	8.0	-12.4	8.4		-4.1	8.7	-14.0		
02/10/86	1200	7.4	-5.7	8.0	-12.3	8.5		-4.1	8.9	-13.9		
02/11/86	0	7.1	-5.4	8.0	-12.3	8.3		-4.1	8.6	-14.2		
02/11/86	1200	7.2	-5.5	7.9	-12.2	8.3		-4.0	8.6	-13.7		
02/12/86	0	7.4	-5.5	8.0	-12.3	8.5		-4.0	8.8	-13.8		
02/12/86	1200	7.2	-5.7	7.9	-12.4	8.4		-4.0	8.7	-13.9		
02/13/86	0	7.3	-5.6	8.0	-12.3	8.4		-4.1	8.8	-13.9		
02/13/86	1200	7.3	-5.6	7.9	-12.4	8.5		-4.1	8.8	-13.9		
02/14/86	0	7.1	-5.7	7.9	-12.3	8.2		-4.0	8.5	-13.9		
02/14/86	1200	7.2	-5.8	7.8	-12.4	8.3		-4.1	8.7	-13.9		
02/15/86	0	7.4	-5.7	7.9	-12.4	8.5		-4.0	8.8	-13.8		
02/15/86	1200	7.3	-5.7	7.8	-12.5	8.4		-4.1	8.8	-14.0		
02/16/86	0	7.3	-5.9	7.8	-12.6	8.5		-4.1	8.9	-13.8		
02/16/86	1200	7.2	-5.9	7.8	-12.5	8.4		-4.1	8.8	-13.8		
02/17/86	0	7.0	-5.7	7.8	-12.5	8.2		-4.2	8.6	-13.9		
02/17/86	1200	7.3	-5.8	7.8	-12.5	8.4		-4.1	8.8	-13.9		
02/18/86	0	7.3	-5.8	7.8	-12.6	8.4		-4.3	8.8	-13.9		
02/18/86	1200	7.2	-5.8	7.7	-12.6	8.4		-4.2	8.8	-13.8		
02/19/86	0	7.3	-6.0	7.7	-12.5	8.4		-4.3	8.8	-13.8		
02/19/86	1200	7.2	-5.8	7.7	-12.5	8.3		-4.1	8.8	-13.8		
02/20/86	0	7.0	-6.2	7.7	-12.6	8.2		-4.1	8.6	-14.0		
02/20/86	1200	7.2	-5.8	7.6	-12.4	8.3		-4.1	8.7	-13.8		
02/21/86	0	7.2	-5.8	7.7	-12.4	8.3		-4.1	8.7	-13.7		
02/21/86	1200	7.2	-5.8	7.7	-12.5	8.3		-4.1	8.7	-13.8		
02/22/86	0	7.0	-5.8	7.7	-12.4	8.1		-4.2	8.5	-13.6		
02/22/86	1200	7.0	-6.0	7.7	-12.5	8.2		-4.2	8.6	-14.0		
02/23/86	0	7.1	-5.9	7.7	-12.5	8.3		-4.1	8.7	-13.9		
02/23/86	1200	7.1	-5.8	7.7	-12.5	8.2		-4.2	8.7	-13.9		
02/24/86	0	7.2	-5.8	7.7	-12.4	8.2		-4.2	8.7	-13.8		
02/24/86	1200	7.1	-5.9	7.7	-12.5	8.2		-4.0	8.6	-13.7		

Table 2.--Temperature and soil-water potential for undisturbed soil beneath the horizontal
culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#14 3.8		tcp#15 4.1		tcp#10 5.4		tcp#11 6.1	
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)
02/25/86	0	7.1	-5.8	7.7	-12.3	8.2	-4.2	8.7
02/25/86	1200	7.1	-5.8	7.6	-12.6	8.1	-4.1	8.6
02/26/86	0	7.2	-5.8	7.7	-12.5	8.2	-4.3	8.7
02/26/86	1200	7.0	-5.7	7.6	-12.5	8.1	-4.1	8.5
02/27/86	0	7.1	-5.7	7.7	-12.4	8.1	-4.1	8.6
02/27/86	1200	7.1	-5.7	7.6	-12.5	8.1	-4.3	8.6
02/28/86	0	7.1	-5.8	7.7	-12.5	8.1	-4.0	8.5
02/28/86	1200	7.1	-5.7	7.6	-12.6	8.1	-4.1	8.6
03/01/86	0	7.1	-5.8	7.6	-12.4	8.2	-4.3	8.6
03/01/86	1200	7.0	-5.9	7.6	-12.6	8.0	-4.1	8.5
03/02/86	0	7.0	-5.7	7.6	-12.5	8.0	-4.3	8.5
03/02/86	1200	7.1	-5.8	7.5	-12.5	8.1	-4.0	8.6
03/03/86	0	7.1	-5.7	7.6	-12.4	8.2	-4.2	8.6
03/03/86	1200	7.0	-5.8	7.5	-12.6	8.1	-4.3	8.6
03/04/86	0	7.1	-5.8	7.6	-12.4	8.2	-4.1	8.6
03/04/86	1200	6.8	-5.8	7.5	-12.5	7.9	-4.0	8.3
03/05/86	0	7.1	-6.0	7.6	-12.5	8.1	-4.1	8.6
03/05/86	1200	7.0	-5.9	7.5	-12.6	8.1	-4.1	8.5
03/06/86	0	7.0	-5.9	7.6	-12.5	8.1	-4.1	8.6
03/06/86	1200	6.9	-5.9	7.5	-12.7	8.0	-4.1	8.4
03/07/86	0	7.1	-5.8	7.6	-12.5	8.1	-4.1	8.6
03/07/86	1200	6.9	-5.6	7.5	-12.6	8.0	-4.1	8.4
03/08/86	0	7.0	-6.0	7.5	-12.7	8.1	-4.3	8.5
03/08/86	1200	6.9	-6.1	7.5	-12.7	8.0	-4.0	8.5
03/09/86	0	6.8	-5.9	7.5	-12.7	8.0	-4.3	8.4
03/09/86	1200	6.8	-6.0	7.5	-12.7	7.9	-4.1	8.3
03/10/86	0	7.0	-5.8	7.5	-12.7	8.1	-4.3	8.5
03/10/86	1200	7.0	-6.0	7.5	-12.8	8.0	-4.3	8.5
03/11/86	0	7.0	-5.9	7.5	-12.7	8.1	-4.1	8.5
03/11/86	1200	7.0	-6.0	7.5	-12.7	8.0	-4.1	8.5
03/12/86	0	7.0	-5.9	7.5	-12.7	8.0	-4.2	8.5
03/12/86	1200	7.0	-5.9	7.4	-12.7	8.0	-4.2	8.5
03/13/86	0	6.8	-6.0	7.5	-12.6	7.8	-4.1	8.3
03/13/86	1200	7.0	-5.9	7.4	-12.7	8.0	-4.2	8.5
03/14/86	0	7.0	-5.8	7.5	-12.7	8.0	-4.1	8.5
03/14/86	1200	6.9	-5.8	7.4	-12.7	7.9	-4.2	8.4

Table 2.--Temperature and soil-water potential for undisturbed soil beneath the horizontal
culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)		tcp#14 3.8			tcp#15 4.1			tcp#10 5.4			tcp#11 6.1		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
03/15/86	0	6.8	-6.1	7.5	-12.6	7.9	-4.2	8.3	-13.3				
03/15/86	1200	6.9	-5.9	7.4	-12.8	7.9	-4.2	8.4	-13.1				
03/16/86	0	7.1	-6.2	7.5	-12.8	8.1	-4.2	8.6	-13.3				
03/16/86	1200	6.9	-5.9	7.4	-12.8	7.9	-4.2	8.5	-13.4				
03/17/86	0	6.9	-6.1	7.4	-12.7	7.9	-4.2	8.4	-13.3				
03/17/86	1200	7.0	-6.0	7.4	-12.8	8.0	-4.2	8.4	-13.3				
03/18/86	0	7.0	-5.9	7.5	-12.6	8.0	-4.3	8.4	-13.2				
03/18/86	1200	6.8	-6.0	7.4	-12.7	7.8	-4.2	8.2	-13.1				
03/19/86	0	7.0	-6.0	7.4	-12.8	8.0	-4.2	8.4	-13.3				
03/19/86	1200	6.9	-5.9	7.3	-12.7	7.9	-4.1	8.4	-13.2				
03/20/86	0	6.9	-5.9	7.5	-12.6	7.8	-4.1	8.3	-13.1				
03/20/86	1200	6.8	-5.8	7.3	-12.8	7.8	-4.3	8.3	-13.1				
03/21/86	0	6.9	-5.8	7.4	-12.7	7.9	-4.2	8.3	-13.0				
03/21/86	1200	7.0	-5.8	7.4	-12.7	7.9	-4.1	8.4	-13.1				
03/22/86	0	7.0	-5.8	7.4	-12.7	7.9	-4.1	8.4	-13.1				
03/22/86	1200	6.9	-6.0	7.3	-12.8	7.8	-4.2	8.3	-12.9				
03/23/86	0	7.0	-5.9	7.4	-12.8	7.9	-4.2	8.4	-13.1				
03/23/86	1200	6.9	-5.8	7.3	-12.7	7.8	-4.2	8.3	-13.0				
03/24/86	0	7.0	-5.9	7.4	-12.8	7.9	-4.1	8.4	-13.1				
03/24/86	1200	6.8	-5.9	7.3	-12.9	7.7	-4.3	8.2	-13.0				
03/25/86	0	6.9	-5.8	7.4	-12.9	7.9	-4.2	8.3	-13.2				
03/25/86	1200	6.8	-6.0	7.3	-12.9	7.7	-4.1	8.2	-13.1				
03/26/86	0	6.7	-5.8	7.4	-12.7	7.7	-4.2	8.1	-13.1				
03/26/86	1200	6.9	-5.7	7.2	-12.9	7.8	-4.2	8.3	-12.9				
03/27/86	0	6.9	-5.7	7.4	-12.8	7.8	-4.1	8.3	-13.0				
03/27/86	1200	6.9	-5.9	7.3	-12.8	7.8	-4.2	8.3	-13.1				
03/28/86	0	6.8	-5.8	7.4	-12.7	7.7	-4.1	8.2	-13.1				
03/28/86	1200	6.9	-5.7	7.2	-12.9	7.7	-4.2	8.2	-13.0				
03/29/86	0	7.1	-5.9	7.5	-12.7	8.0	-4.2	8.5	-12.9				
03/29/86	1200	6.8	-5.8	7.2	-13.0	7.7	-4.2	8.2	-13.1				
03/30/86	0	7.0	-5.8	7.4	-12.8	7.9	-4.2	8.4	-13.0				
03/30/86	1200	6.8	-5.9	7.2	-13.1	7.7	-4.1	8.2	-13.1				
03/31/86	0	7.1	-5.7	7.4	-12.8	7.9	-4.1	8.4	-13.0				
03/31/86	1200	6.8	-5.9	7.3	-12.8	7.7	-4.2	8.2	-12.9				
04/01/86	0	6.9	-5.8	7.4	-12.8	7.8	-4.3	8.3	-13.1				
04/01/86	1200	6.8	-5.8	7.3	-12.9	7.6	-4.3	8.1	-13.1				

Table 2.--Temperature and soil-water potential for undisturbed soil beneath the horizontal
culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#14		tcp#15		tcp#10		tcp#11	
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)
04/02/86	0	6.7	-5.8	7.3	-13.0	7.6	-4.3	8.1
04/02/86	1200	6.9	-5.7	7.3	-12.9	7.8	-4.1	8.3
04/03/86	0	7.0	-5.9	7.4	-12.7	7.8	-4.2	8.4
04/03/86	1200	6.9	-5.8	7.2	-12.9	7.7	-4.2	8.2
04/04/86	0	6.8	-5.8	7.4	-12.8	7.6	-4.3	8.1
04/04/86	1200	6.9	-5.5	7.2	-13.0	7.7	-4.1	8.2
04/05/86	0	7.0	-5.6	7.4	-12.9	7.8	-4.2	8.3
04/05/86	1200	6.9	-5.8	7.2	-13.0	7.7	-4.3	8.2
04/06/86	0	6.9	-5.6	7.3	-12.9	7.7	-4.1	8.2
04/06/86	1200	6.9	-5.7	7.2	-13.1	7.6	-4.1	8.2
04/07/86	0	7.0	-5.9	7.4	-12.9	7.8	-4.2	8.3
04/07/86	1200	6.9	-6.0	7.3	-12.9	7.7	-4.1	8.2
04/08/86	0	7.0	-6.0	7.3	-12.9	7.7	-4.2	8.2
04/08/86	1200	7.0	-6.0	7.3	-13.0	7.7	-4.2	8.2
04/09/86	0	6.8	-5.8	7.3	-12.9	7.6	-4.2	8.1
04/09/86	1200	6.9	-6.0	7.2	-13.1	7.7	-4.2	8.2
04/10/86	0	6.9	-5.9	7.3	-13.0	7.6	-4.3	8.1
04/10/86	1200	6.9	-6.0	7.2	-13.1	7.6	-4.3	8.1
04/11/86	0	7.0	-5.8	7.3	-13.0	7.7	-4.2	8.2
04/11/86	1200	6.9	-5.8	7.2	-13.0	7.6	-4.2	8.2
04/12/86	0	7.0	-6.1	7.3	-13.1	7.7	-4.4	8.2
04/12/86	1200	6.9	-6.1	7.3	-13.2	7.6	-4.2	8.1
04/13/86	0	7.0	-6.0	7.3	-12.9	7.7	-4.1	8.2
04/13/86	1200	6.8	-5.9	7.3	-13.0	7.5	-4.4	8.0
04/14/86	0	7.0	-5.9	7.2	-13.0	7.7	-4.2	8.2
04/14/86	1200	7.0	-5.9	7.2	-13.0	7.6	-4.2	8.1
04/15/86	0	7.1	-6.1	7.4	-13.0	7.7	-4.2	8.2
04/15/86	1200	7.0	-6.4	7.2	-13.2	7.6	-4.3	8.1
04/16/86	0	7.1	-5.8	7.4	-13.1	7.7	-4.2	8.2
04/16/86	1200	7.1	-6.0	7.3	-13.2	7.7	-4.2	8.1
04/17/86	0	6.9	-5.8	7.3	-13.1	7.5	-4.2	8.0
04/17/86	1200	7.1	-5.9	7.3	-13.0	7.5	-4.3	8.1
04/18/86	0	7.0	-6.0	7.4	-13.0	7.4	-4.2	8.0
04/18/86	1200	7.1	-5.9	7.3	-13.1	7.6	-4.2	8.2
04/19/86	0	7.1	-5.9	7.3	-13.0	7.6	-4.2	8.1
04/19/86	1200	7.1	-5.9	7.3	-13.1	7.5	-4.4	8.1

Table 2.--Temperature and soil-water potential for undisturbed soil beneath the horizontal
culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#14 3.8			tcp#15 4.1			tcp#10 5.4			tcp#11 6.1		
	Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
04/20/86	0	7.2	7.2	-6.1	7.4	-13.1	7.6	-4.2	8.2	-12.5		
04/20/86	1200	7.1	7.1	-6.1	7.2	-13.2	7.5	-4.3	8.0	-12.7		
04/21/86	0	7.3	7.3	-5.9	7.4	-13.1	7.7	-4.2	8.2	-12.6		
04/21/86	1200	6.9	6.9	-6.1	7.0	-13.4	7.3	-4.3	7.8	-12.7		
04/22/86	0	7.4	7.4	-6.4	7.6	-13.2	7.8	-4.3	8.3	-12.8		
04/22/86	1200	7.1	7.1	-6.2	7.2	-13.4	7.5	-4.2	8.0	-12.8		
04/23/86	0	7.1	7.1	-6.2	7.4	-13.2	7.6	-4.2	8.0	-13.0		
04/23/86	1200	7.2	7.2	-6.0	7.4	-13.3	7.6	-4.2	8.1	-12.5		
04/24/86	0	7.2	7.2	-6.2	7.4	-13.2	7.6	-4.2	8.1	-12.8		
04/24/86	1200	7.2	7.2	-6.4	7.4	-13.5	7.6	-4.3	8.1	-12.9		
04/25/86	0	7.3	7.3	-6.2	7.4	-13.3	7.7	-4.2	8.1	-12.8		
04/25/86	1200	7.2	7.2	-5.9	7.3	-13.3	7.6	-4.2	8.0	-12.7		
04/26/86	0	7.3	7.3	-6.4	7.4	-13.4	7.7	-4.3	8.1	-12.8		
04/26/86	1200	7.2	7.2	-6.1	7.3	-13.3	7.6	-4.2	8.0	-12.7		
04/27/86	0	7.3	7.3	-6.0	7.4	-13.1	7.6	-4.0	8.1	-12.6		
04/27/86	1200	7.2	7.2	-6.2	7.3	-13.3	7.6	-4.2	8.0	-12.8		
04/28/86	0	7.3	7.3	-6.2	7.4	-13.2	7.7	-4.0	8.1	-12.7		
04/28/86	1200	7.3	7.3	-6.1	7.4	-13.3	7.6	-4.2	8.0	-12.8		
04/29/86	0	7.3	7.3	-6.5	7.5	-13.3	7.7	-4.2	8.1	-12.7		
04/29/86	1200	7.3	7.3	-6.1	7.4	-13.2	7.6	-4.2	8.0	-12.8		
04/30/86	0	7.1	7.1	-6.2	7.5	-13.3	7.4	-4.2	7.9	-12.8		
04/30/86	1200	7.3	7.3	-6.2	7.4	-13.4	7.5	-4.2	8.0	-12.6		
05/01/86	0	7.2	7.2	-6.1	7.5	-13.3	7.4	-4.1	7.9	-12.6		
05/01/86	1200	7.3	7.3	-6.0	7.3	-13.4	7.5	-4.3	8.0	-12.8		
05/02/86	0	7.4	7.4	-6.1	7.6	-13.2	7.5	-4.1	8.0	-12.8		
05/02/86	1200	7.2	7.2	-6.1	7.3	-13.5	7.5	-4.3	7.9	-12.7		
05/03/86	0	7.6	7.6	-6.2	7.7	-13.2	7.8	-4.2	8.3	-12.6		
05/03/86	1200	7.3	7.3	-6.3	7.3	-13.4	7.5	-4.2	7.9	-12.8		
05/04/86	0	7.7	7.7	-6.2	7.7	-13.3	7.8	-4.1	8.3	-12.7		
05/04/86	1200	7.4	7.4	-6.1	7.5	-13.5	7.7	-4.1	8.1	-12.7		
05/05/86	0	7.2	7.2	-6.1	7.5	-13.3	7.4	-4.2	7.8	-12.7		
05/05/86	1200	7.4	7.4	-6.4	7.5	-13.4	7.6	-4.3	8.0	-12.9		
05/06/86	0	7.5	7.5	-6.3	7.6	-13.4	7.7	-4.2	8.1	-12.6		
05/06/86	1200	7.4	7.4	-6.6	7.5	-13.4	7.6	-4.2	8.0	-13.0		
05/07/86	0	7.5	7.5	-6.2	7.5	-13.4	7.7	-4.2	8.0	-12.8		
05/07/86	1200	7.4	7.4	-6.3	7.5	-13.4	7.6	-4.1	8.0	-12.7		

Temperature and soil-water potential for un-
culvert at the west test trench--Continued

Sensor identifier		tcp#14			tcp#15			tcp#10			tcp#11		
Depth below land surface (meters)		3.8			4.1			5.4			6.1		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
05/08/86	0	7.3	-6.3	7.5	-13.3	7.5	-4.1	7.5	-4.1	7.9	-12.7	7.9	-12.7
05/08/86	1200	7.8	-6.2	7.8	-13.3	7.8	-4.2	7.8	-4.2	8.2	-12.7	8.2	-12.7
05/09/86	0	7.3	-6.4	7.5	-13.3	7.5	-4.1	7.5	-4.1	7.8	-12.8	7.8	-12.8
05/09/86	1200	7.5	-6.3	7.5	-13.3	7.5	-4.1	7.6	-4.1	8.0	-12.6	8.0	-12.6
05/10/86	0	7.5	-6.4	7.6	-13.4	7.7	-4.2	7.7	-4.2	8.0	-12.8	8.0	-12.8
05/10/86	1200	7.4	-6.1	7.5	-13.3	7.6	-4.2	7.6	-4.2	7.9	-12.8	7.9	-12.8
05/11/86	0	7.5	-6.1	7.6	-13.5	7.7	-4.1	7.7	-4.1	8.0	-12.8	8.0	-12.8
05/11/86	1200	7.4	-6.2	7.5	-13.4	7.7	-4.2	7.7	-4.2	8.0	-12.7	8.0	-12.7
05/12/86	0	7.4	-6.3	7.6	-13.3	7.6	-4.1	7.6	-4.1	7.9	-12.6	7.9	-12.6
05/12/86	1200	7.5	-6.2	7.5	-13.4	7.6	-4.3	7.6	-4.3	8.0	-12.6	8.0	-12.6
05/13/86	0	7.4	-6.4	7.6	-13.3	7.7	-4.3	7.7	-4.3	8.0	-12.6	8.0	-12.6
05/13/86	1200	7.5	-6.2	7.5	-13.3	7.6	-4.3	7.6	-4.3	8.0	-12.6	8.0	-12.6
05/14/86	0	7.4	-6.3	7.6	-13.2	7.6	-4.1	7.6	-4.1	8.0	-12.8	8.0	-12.8
05/14/86	1200	7.4	-6.1	7.5	-13.4	7.6	-4.3	7.6	-4.3	8.0	-12.6	8.0	-12.6
05/15/86	0	7.5	-6.2	7.6	-13.3	7.7	-4.2	7.7	-4.2	8.1	-12.7	8.1	-12.7
05/15/86	1200	7.4	-6.2	7.4	-13.3	7.6	-4.3	7.6	-4.3	7.9	-12.7	7.9	-12.7
05/16/86	0	7.4	-6.2	7.6	-13.3	7.6	-4.2	7.6	-4.2	7.9	-12.6	7.9	-12.6
05/16/86	1200	7.5	-6.0	7.5	-13.3	7.7	-4.2	7.7	-4.2	8.0	-12.7	8.0	-12.7
05/17/86	0	7.6	-6.1	7.7	-13.1	7.8	-4.1	7.8	-4.1	8.1	-12.6	8.1	-12.6
05/17/86	1200	7.5	-6.1	7.5	-13.3	7.6	-4.3	7.6	-4.3	8.0	-12.6	8.0	-12.6
05/18/86	0	7.5	-5.9	7.7	-13.2	7.6	-4.2	7.6	-4.2	8.0	-12.6	8.0	-12.6
05/18/86	1200	7.4	-6.2	7.4	-13.5	7.6	-4.2	7.6	-4.2	7.9	-12.7	7.9	-12.7
05/19/86	0	7.7	-6.1	7.7	-13.3	7.8	-4.2	7.8	-4.2	8.1	-12.8	8.1	-12.8
05/19/86	1200	7.4	-6.1	7.4	-13.5	7.6	-4.3	7.6	-4.3	7.9	-12.8	7.9	-12.8
05/20/86	0	7.7	-6.0	7.8	-13.3	7.8	-4.2	7.8	-4.2	8.2	-12.6	8.2	-12.6
05/20/86	1200	7.4	-6.1	7.4	-13.5	7.6	-4.3	7.6	-4.3	7.8	-12.8	7.8	-12.8
05/21/86	0	7.7	-6.0	7.7	-13.3	7.8	-4.2	7.8	-4.2	8.1	-12.6	8.1	-12.6
05/21/86	1200	7.5	-6.2	7.6	-13.3	7.6	-4.3	7.6	-4.3	8.0	-12.9	8.0	-12.9
05/22/86	0	7.4	-6.2	7.6	-13.4	7.6	-4.3	7.6	-4.3	7.9	-12.8	7.9	-12.8
05/22/86	1200	7.6	-6.2	7.6	-13.2	7.7	-4.3	7.7	-4.3	8.0	-12.7	8.0	-12.7
05/23/86	0	7.5	-6.1	7.7	-13.2	7.6	-4.2	7.7	-4.2	8.0	-12.5	8.0	-12.5

Table 2.--Temperature and soil-water potential for undisturbed soil beneath the horizontal culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#14			tcp#15			tcp#10			tcp#11		
	3.8			4.1			5.4			6.1		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
05/26/86	0	7.8	-5.9	7.9	-13.1	7.9	7.9	-4.1	8.2	-12.7	8.2	-12.7
05/26/86	1200	7.4	-6.0	7.4	-13.5	7.6	7.6	-4.3	7.8	-12.8	7.8	-12.8
05/27/86	0	7.9	-5.9	7.9	-13.1	7.9	7.9	-4.1	8.3	-12.5	8.3	-12.5
05/27/86	1200	7.4	-6.0	7.4	-13.5	7.6	7.6	-4.3	7.9	-12.7	7.9	-12.7
05/28/86	0	7.8	-5.9	7.9	-13.1	7.9	7.9	-4.2	8.2	-12.7	8.2	-12.7
05/28/86	1200	7.5	-6.1	7.4	-13.5	7.6	7.6	-4.3	7.8	-12.7	7.8	-12.7
05/29/86	0	7.8	-5.9	7.9	-13.1	7.9	7.9	-4.2	8.2	-12.6	8.2	-12.6
05/29/86	1200	7.5	-6.1	7.4	-13.4	7.6	7.6	-4.4	7.8	-12.8	7.8	-12.8
05/30/86	0	7.9	-5.8	7.9	-13.1	7.9	7.9	-4.3	8.2	-12.7	8.2	-12.7
05/31/86	0	7.9	-6.0	7.9	-13.1	7.9	7.9	-4.1	8.3	-12.5	8.3	-12.5
05/31/86	1200	7.5	-5.9	7.4	-13.4	7.6	7.6	-4.1	7.8	-13.0	7.8	-13.0
06/01/86	0	7.9	-5.9	7.8	-13.1	7.7	7.7	-4.1	8.2	-12.5	8.2	-12.5
06/01/86	1200	7.6	-6.0	7.5	-13.5	7.7	7.7	-4.3	7.9	-12.8	7.9	-12.8
06/02/86	0	7.9	-5.9	7.9	-13.2	7.9	7.9	-4.1	8.2	-12.6	8.2	-12.6
06/02/86	1200	7.6	-6.0	7.4	-13.6	7.7	7.7	-4.2	7.9	-12.8	7.9	-12.8
06/03/86	0	7.9	-5.9	7.9	-13.2	7.9	7.9	-4.3	8.2	-12.7	8.2	-12.7
06/03/86	1200	7.6	-5.9	7.6	-13.4	7.7	7.7	-4.2	7.9	-12.7	7.9	-12.7
06/04/86	0	7.9	-5.9	7.9	-13.3	7.9	7.9	-4.3	8.2	-12.7	8.2	-12.7
06/04/86	1200	7.7	-6.1	7.5	-13.5	7.7	7.7	-4.2	7.9	-12.8	7.9	-12.8
06/05/86	0	7.9	-5.7	7.9	-13.2	7.8	7.8	-4.2	8.1	-12.5	8.1	-12.5
06/05/86	1200	7.7	-5.8	7.6	-13.6	7.7	7.7	-4.3	7.9	-12.7	7.9	-12.7
06/06/86	0	8.0	-5.8	7.9	-13.3	7.9	7.9	-4.2	8.2	-12.9	8.2	-12.9
06/06/86	1200	7.7	-5.9	7.6	-13.5	7.7	7.7	-4.2	7.9	-12.8	7.9	-12.8
06/07/86	0	8.0	-5.6	7.9	-13.2	7.9	7.9	-4.3	8.2	-12.6	8.2	-12.6
06/07/86	1200	7.8	-5.8	7.7	-13.5	7.7	7.7	-4.3	8.0	-12.6	8.0	-12.6
06/08/86	0	8.0	-5.9	7.9	-13.4	7.8	7.8	-4.3	8.1	-12.6	8.1	-12.6
06/08/86	1200	7.9	-5.9	7.7	-13.5	7.8	7.8	-4.1	8.0	-12.8	8.0	-12.8
06/09/86	0	8.0	-5.9	7.9	-13.5	7.8	7.8	-4.1	8.1	-12.7	8.1	-12.7
06/09/86	1200	8.0	-5.9	7.9	-13.5	7.8	7.8	-4.2	8.1	-12.6	8.1	-12.6
06/10/86	0	8.1	-6.0	7.9	-13.3	7.9	7.9	-4.2	8.2	-12.7	8.2	-12.7
06/10/86	1200	7.9	-6.1	7.7	-13.5	7.7	7.7	-4.1	7.9	-12.5	7.9	-12.5
06/11/86	0	8.1	-5.7	8.0	-13.2	7.9	7.9	-4.3	8.2	-12.8	8.2	-12.8
06/11/86	1200	7.8	-6.1	7.7	-13.5	7.7	7.7	-4.2	7.9	-12.5	7.9	-12.5
06/12/86	0	8.2	-5.9	8.1	-13.3	7.9	7.9	-4.2	8.2	-12.7	8.2	-12.7
06/12/86	1200	7.8	-6.1	7.6	-13.8	7.7	7.7	-4.1	7.8	-12.8	7.8	-12.8
06/13/86	0	8.2	-5.8	8.1	-13.4	7.9	7.9	-4.1	8.2	-12.6	8.2	-12.6

Table 2.--Temperature and soil-water potential for undisturbed soil beneath the horizontal
culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#14 3.8			tcp#15 4.1			tcp#10 5.4			tcp#11 6.1		
	Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
06/13/86	1200		7.9	-6.0	7.7	-13.7	7.7	-4.2	7.9	-12.6	7.9	-12.6
06/14/86	0		8.2	-6.0	8.1	-13.3	7.9	-4.1	8.2	-12.6	8.2	-12.6
06/14/86	1200		8.0	-5.9	7.7	-13.8	7.7	-4.2	7.9	-12.5	7.9	-12.5
06/15/86	0		8.3	-5.8	8.1	-13.4	7.9	-4.2	8.2	-12.5	8.2	-12.5
06/15/86	1200		8.0	-6.3	7.8	-13.7	7.8	-4.2	7.9	-12.9	7.9	-12.9
06/16/86	0		8.3	-6.1	8.2	-13.3	8.0	-4.2	8.2	-12.7	8.2	-12.7
06/16/86	1200		8.0	-6.2	7.7	-13.7	7.8	-4.2	7.9	-12.9	7.9	-12.9
06/17/86	0		8.4	-6.1	8.2	-13.4	8.0	-4.1	8.2	-12.6	8.2	-12.6
06/17/86	1200		8.0	-6.1	7.8	-13.6	7.7	-4.3	7.8	-12.9	7.8	-12.9
06/18/86	0		8.4	-6.0	8.2	-13.5	8.0	-4.2	8.2	-12.6	8.2	-12.6
06/18/86	1200		7.8	-6.2	7.9	-13.7	7.6	-4.2	7.7	-12.9	7.7	-12.9
06/19/86	0		8.4	-6.0	8.2	-13.4	8.0	-4.2	8.2	-12.5	8.2	-12.5
06/19/86	1200		8.2	-6.3	7.9	-13.5	7.8	-4.2	8.0	-12.8	8.0	-12.8
06/20/86	0		8.5	-6.1	8.3	-13.4	8.0	-4.1	8.2	-12.8	8.2	-12.8
06/20/86	1200		8.2	-6.1	7.9	-13.7	7.7	-4.2	7.9	-12.8	7.9	-12.8
06/21/86	0		8.5	-6.0	8.3	-13.3	8.0	-4.3	8.2	-12.5	8.2	-12.5
06/21/86	1200		8.2	-6.1	7.9	-13.7	7.8	-4.2	7.9	-12.7	7.9	-12.7
06/22/86	0		8.5	-6.0	8.3	-13.4	8.0	-4.1	8.2	-12.6	8.2	-12.6
06/22/86	1200		8.2	-6.1	8.0	-13.7	7.8	-4.2	7.9	-12.7	7.9	-12.7
06/23/86	0		8.5	-6.1	8.4	-13.2	8.1	-4.2	8.2	-12.6	8.2	-12.6
06/23/86	1200		8.3	-6.0	7.9	-13.7	7.8	-4.2	7.9	-12.5	7.9	-12.5
06/24/86	0		8.6	-6.0	8.4	-13.4	8.1	-4.1	8.3	-12.3	8.3	-12.3
06/24/86	1200		8.3	-6.1	8.0	-13.8	7.9	-4.1	7.9	-12.7	7.9	-12.7
06/25/86	0		8.6	-6.2	8.4	-13.4	8.1	-4.1	8.2	-12.8	8.2	-12.8
06/25/86	1200		8.3	-6.1	8.0	-13.8	7.9	-4.2	7.9	-12.5	7.9	-12.5
06/26/86	0		8.6	-6.1	8.4	-13.4	8.1	-4.2	8.2	-12.6	8.2	-12.6
06/26/86	1200		8.1	-6.2	8.0	-13.8	7.7	-4.2	7.7	-12.7	7.7	-12.7
06/27/86	0		8.7	-6.0	8.5	-13.3	8.1	-4.1	8.2	-12.6	8.2	-12.6
06/27/86	1200		8.4	-6.2	8.0	-13.7	7.9	-4.0	7.9	-12.7	7.9	-12.7
06/28/86	0		8.8	-5.9	8.5	-13.5	8.1	-4.1	8.3	-12.6	8.3	-12.6
06/28/86	1200		8.4	-6.1	8.1	-13.7	7.9	-4.1	7.9	-12.8	7.9	-12.8
06/29/86	0		8.8	-6.1	8.5	-13.4	8.1	-4.1	8.3	-12.6	8.3	-12.6
06/29/86	1200		8.5	-6.1	8.2	-13.6	7.9	-4.2	8.0	-12.8	8.0	-12.8
06/30/86	0		8.8	-5.9	8.6	-13.4	8.1	-4.0	8.2	-12.5	8.2	-12.5
06/30/86	1200		8.5	-6.2	8.2	-13.8	7.9	-4.2	7.9	-12.7	7.9	-12.7
07/01/86	0		8.9	-6.1	8.6	-13.3	8.1	-4.2	8.3	-12.6	8.3	-12.6

Table 2.--Temperature and soil-water potential for undisturbed soil beneath the horizontal
culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#14 3.8			tcp#15 4.1			tcp#10 5.4			tcp#11 6.1		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
07/01/86	1200	8.5	-6.3	8.2	-13.9	7.9	7.9	-4.1	7.9	-12.7	7.9	-12.7
07/02/86	0	9.0	-6.0	8.7	-13.4	8.2	8.2	-4.2	8.3	-12.3	8.3	-12.3
07/02/86	1200	8.5	-6.0	8.1	-13.9	7.9	7.9	-4.3	7.9	-12.8	7.9	-12.8
07/03/86	0	8.9	-6.1	8.6	-13.5	8.2	8.2	-4.0	8.2	-12.7	8.2	-12.7
07/03/86	1200	8.7	-6.1	8.4	-13.7	8.0	8.0	-4.1	8.0	-13.0	8.0	-13.0
07/04/86	0	9.0	-6.1	8.7	-13.5	8.2	8.2	-4.2	8.3	-12.7	8.3	-12.7
07/04/86	1200	8.7	-6.3	8.3	-13.9	8.0	8.0	-4.2	8.0	-13.0	8.0	-13.0
07/05/86	0	9.0	-6.5	8.7	-13.5	8.2	8.2	-4.4	8.3	-12.7	8.3	-12.7
07/05/86	1200	8.8	-6.3	8.5	-13.6	8.0	8.0	-4.1	8.1	-12.8	8.1	-12.8
07/06/86	0	9.0	-6.4	8.7	-13.5	8.2	8.2	-4.1	8.2	-12.8	8.2	-12.8
07/06/86	1200	8.8	-6.3	8.4	-13.7	8.0	8.0	-4.1	8.0	-12.9	8.0	-12.9
07/07/86	0	9.1	-6.2	8.7	-13.6	8.2	8.2	-4.2	8.2	-13.0	8.2	-13.0
07/07/86	1200	8.9	-6.1	8.5	-13.7	8.1	8.1	-4.1	8.1	-12.8	8.1	-12.8
07/08/86	0	9.2	-6.4	8.8	-13.4	8.2	8.2	-4.2	8.3	-12.9	8.3	-12.9
07/08/86	1200	8.9	-6.2	8.4	-13.9	8.0	8.0	-4.0	8.0	-13.0	8.0	-13.0
07/09/86	0	9.3	-6.2	8.8	-13.4	8.2	8.2	-4.2	8.3	-12.7	8.3	-12.7
07/09/86	1200	9.0	-6.3	8.5	-13.8	8.1	8.1	-4.1	8.0	-12.9	8.0	-12.9
07/10/86	0	9.3	-6.3	8.9	-13.5	8.3	8.3	-4.3	8.3	-12.7	8.3	-12.7
07/10/86	1200	9.0	-6.3	8.6	-13.8	8.1	8.1	-4.2	8.0	-12.8	8.0	-12.8
07/11/86	0	9.3	-6.1	8.9	-13.5	8.3	8.3	-4.1	8.3	-12.9	8.3	-12.9
07/11/86	1200	9.1	-6.2	8.6	-13.9	8.2	8.2	-4.1	8.1	-12.9	8.1	-12.9
07/12/86	0	9.4	-6.3	9.0	-13.5	8.3	8.3	-4.2	8.3	-12.8	8.3	-12.8
07/12/86	1200	9.1	-6.5	8.6	-13.9	8.1	8.1	-4.1	8.0	-13.1	8.0	-13.1
07/13/86	0	9.5	-6.4	9.0	-13.6	8.4	8.4	-4.1	8.3	-13.1	8.3	-13.1
07/13/86	1200	9.1	-6.5	8.6	-13.9	8.1	8.1	-4.2	8.0	-12.9	8.0	-12.9
07/14/86	0	9.6	-6.3	9.1	-13.5	8.4	8.4	-4.0	8.4	-12.7	8.4	-12.7
07/14/86	1200	9.2	-6.6	8.7	-13.9	8.1	8.1	-4.3	8.0	-13.0	8.0	-13.0
07/15/86	0	9.7	-6.2	9.1	-13.5	8.4	8.4	-4.1	8.4	-12.9	8.4	-12.9
07/15/86	1200	9.3	-6.5	8.8	-13.8	8.2	8.2	-4.2	8.1	-12.9	8.1	-12.9
07/16/86	0	9.6	-6.5	9.1	-13.6	8.4	8.4	-4.2	8.3	-12.9	8.3	-12.9
07/16/86	1200	9.4	-6.4	8.8	-13.9	8.3	8.3	-4.1	8.1	-13.0	8.1	-13.0
07/17/86	0	9.7	-6.4	9.2	-13.5	8.5	8.5	-4.1	8.4	-13.0	8.4	-13.0
07/17/86	1200	9.4	-6.6	8.9	-13.9	8.3	8.3	-4.2	8.1	-13.2	8.1	-13.2
07/18/86	0	9.8	-6.3	9.3	-13.4	8.5	8.5	-4.1	8.4	-12.9	8.4	-12.9
07/18/86	1200	9.6	-6.5	9.0	-13.8	8.3	8.3	-4.2	8.2	-13.2	8.2	-13.2
07/19/86	0	9.9	-6.3	9.3	-13.4	8.6	8.6	-4.1	8.5	-12.8	8.5	-12.8

Table 2.--Temperature and soil-water potential for undisturbed soil beneath the horizontal
culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)		tcp#14		tcp#15		tcp#10		tcp#11	
		3.8		4.1		5.4		6.1	
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
07/19/86	1200	9.3	-6.5	8.6	-14.2	8.1	-4.1	7.9	-13.1
07/20/86	0	10.0	-6.2	9.5	-13.4	8.6	-4.2	8.5	-12.9
07/20/86	1200	9.3	-6.3	8.7	-14.0	8.1	-4.3	7.9	-13.1
07/21/86	0	10.0	-6.3	9.5	-13.4	8.6	-3.9	8.5	-12.9
07/21/86	1200	9.6	-6.4	9.0	-14.0	8.3	-4.2	8.1	-13.1
07/22/86	0	10.0	-6.2	9.5	-13.5	8.6	-4.1	8.5	-13.2
07/22/86	1200	9.6	-6.3	9.0	-14.0	8.3	-4.0	8.1	-13.1
07/23/86	0	10.0	-6.3	9.4	-13.4	8.5	-4.0	8.4	-13.1
07/23/86	1200	9.6	-6.4	9.0	-14.0	8.3	-4.2	8.1	-13.2
07/24/86	0	10.0	-6.1	9.5	-13.6	8.6	-4.0	8.4	-13.1
07/24/86	1200	9.8	-6.4	9.2	-13.9	8.4	-4.2	8.2	-13.4
07/25/86	0	10.0	-6.1	9.5	-13.5	8.6	-4.0	8.4	-13.2
07/25/86	1200	9.8	-6.3	9.2	-13.7	8.4	-4.1	8.2	-13.4
07/26/86	0	10.1	-6.2	9.6	-13.4	8.7	-4.2	8.5	-13.3
07/26/86	1200	9.8	-6.2	9.2	-13.9	8.4	-4.2	8.2	-13.4
07/27/86	0	10.2	-6.2	9.6	-13.5	8.7	-4.1	8.5	-13.4
07/27/86	1200	9.9	-6.3	9.4	-13.8	8.5	-4.0	8.3	-13.5
07/28/86	0	10.2	-6.1	9.7	-13.4	8.8	-4.0	8.6	-13.4
07/28/86	1200	9.9	-6.2	9.3	-13.8	8.5	-4.2	8.2	-13.3
07/29/86	0	10.2	-6.1	9.7	-13.4	8.8	-4.0	8.5	-13.4
07/29/86	1200	9.6	-6.3	9.1	-14.2	8.4	-4.1	8.0	-13.6
07/30/86	0	10.3	-6.1	9.7	-13.3	8.8	-4.0	8.6	-13.2
07/30/86	1200	10.0	-6.3	9.4	-13.6	8.6	-4.1	8.3	-13.4
07/31/86	0	10.3	-6.1	9.8	-13.4	8.8	-4.0	8.6	-13.4
07/31/86	1200	9.8	-6.1	9.3	-13.9	8.5	-4.1	8.1	-13.6
08/01/86	0	10.4	-6.0	9.8	-13.5	8.9	-4.0	8.6	-13.4
08/01/86	1200	9.9	-6.1	9.3	-13.8	8.5	-4.0	8.2	-13.5
08/02/86	0	10.5	-6.2	9.9	-13.4	8.9	-4.1	8.7	-13.3
08/02/86	1200	10.0	-6.2	9.4	-13.7	8.6	-4.0	8.3	-13.8
08/03/86	0	10.4	-6.1	9.9	-13.5	8.9	-4.1	8.6	-13.5
08/03/86	1200	10.0	-6.3	9.4	-13.7	8.6	-4.1	8.2	-13.7
08/04/86	0	10.5	-5.9	9.9	-13.3	9.0	-4.1	8.7	-13.4
08/04/86	1200	10.0	-6.1	9.4	-13.7	8.7	-4.1	8.3	-13.7
08/05/86	0	10.5	-6.0	10.0	-13.2	9.0	-3.8	8.7	-13.5
08/05/86	1200	9.9	-6.4	9.3	-14.0	8.6	-4.1	8.2	-13.6
08/06/86	0	10.6	-6.0	10.0	-13.4	9.0	-4.1	8.7	-13.3

Table 2.--Temperature and soil-water potential for undisturbed soil beneath the horizontal
culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#14 3.8		tcp#15 4.1		tcp#10 5.4		tcp#11 6.1	
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)
08/06/86	1200	10.1	-6.2	9.5	-13.8	8.7	-4.2	8.3
08/07/86	0	10.6	-6.1	10.0	-13.3	9.0	-4.1	8.7
08/07/86	1200	10.1	-6.1	9.5	-13.7	8.8	-4.2	8.3
08/08/86	0	10.5	-6.1	10.0	-13.3	9.0	-4.0	8.7
08/08/86	1200	10.2	-6.2	9.6	-13.8	8.8	-4.0	8.4
08/09/86	0	10.7	-6.0	10.1	-13.3	9.1	-4.1	8.8
08/09/86	1200	10.2	-6.2	9.6	-13.8	8.8	-4.1	8.4
08/10/86	0	10.7	-6.0	10.1	-13.2	9.1	-4.0	8.8
08/10/86	1200	10.2	-6.1	9.6	-13.7	8.8	-4.0	8.4
08/11/86	0	10.7	-6.1	10.1	-13.2	9.1	-4.0	8.8
08/11/86	1200	10.4	-6.1	9.7	-13.7	8.9	-4.0	8.5
08/12/86	0	10.7	-6.2	10.2	-13.2	9.1	-4.1	8.8
08/12/86	1200	10.3	-6.3	9.7	-13.8	8.9	-3.9	8.5
08/13/86	0	10.7	-6.1	10.1	-13.4	9.1	-4.0	8.7
08/13/86	1200	10.4	-6.2	9.8	-13.6	8.9	-4.1	8.5
08/14/86	0	10.9	-6.2	10.3	-13.3	9.2	-4.0	8.9
08/14/86	1200	10.4	-6.3	9.8	-13.7	8.9	-4.0	8.4
08/15/86	0	10.8	-6.4	10.2	-13.3	9.2	-3.9	8.8
08/15/86	1200	10.4	-6.4	9.8	-13.8	9.0	-4.0	8.5
08/16/86	0	10.9	-6.1	10.3	-13.2	9.3	-4.0	8.9
08/16/86	1200	10.5	-6.3	9.8	-13.6	9.0	-4.1	8.5
08/17/86	0	10.9	-6.1	10.3	-13.3	9.3	-4.0	8.9
08/17/86	1200	10.5	-6.2	9.8	-13.8	9.0	-3.9	8.5
08/18/86	0	10.9	-6.1	10.3	-13.2	9.3	-3.9	8.9
08/18/86	1200	10.5	-6.3	9.8	-13.6	9.0	-4.1	8.5
08/19/86	0	11.0	-6.2	10.4	-13.1	9.4	-4.0	8.9
08/19/86	1200	10.7	-6.2	10.1	-13.4	9.2	-3.9	8.6
08/20/86	0	11.0	-6.0	10.4	-13.1	9.3	-3.9	8.9
08/20/86	1200	10.6	-6.3	10.0	-13.5	9.1	-4.1	8.6
08/21/86	0	11.0	-6.1	10.4	-13.3	9.4	-4.1	8.9
08/21/86	1200	10.8	-6.3	10.2	-13.4	9.2	-3.9	8.7
08/22/86	0	11.0	-6.2	10.4	-13.2	9.4	-4.0	9.0
08/22/86	1200	10.7	-6.2	10.1	-13.5	9.2	-4.1	8.7
08/23/86	0	11.1	-6.2	10.5	-13.2	9.4	-3.9	9.0
08/23/86	1200	10.9	-6.3	10.2	-13.5	9.3	-4.0	8.8
08/24/86	0	11.1	-6.1	10.5	-13.1	9.5	-4.0	9.0

Table 2.--Temperature and soil-water potential for undisturbed soil beneath the horizontal
culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#14 3.8			tcp#15 4.1			tcp#10 5.4			tcp#11 6.1		
	Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
08/24/86	1200		10.8	-6.2	10.1	-13.5	9.2	-3.9	8.6	-13.8		
08/25/86	0		11.1	-6.3	10.5	-13.3	9.4	-4.0	8.9	-13.8		
08/25/86	1200		10.8	-6.1	10.2	-13.5	9.3	-3.9	8.7	-13.9		
08/26/86	0		11.2	-6.2	10.6	-13.1	9.5	-4.0	9.0	-13.5		
08/26/86	1200		10.8	-6.3	10.2	-13.5	9.2	-4.0	8.7	-13.9		
08/27/86	0		11.3	-6.2	10.6	-13.1	9.5	-4.0	9.1	-13.8		
08/27/86	1200		10.8	-6.1	10.2	-13.5	9.3	-4.1	8.7	-13.7		
08/28/86	0		11.3	-6.3	10.7	-13.1	9.6	-4.0	9.1	-13.7		
08/28/86	1200		10.8	-6.3	10.2	-13.6	9.2	-4.1	8.7	-13.9		
08/29/86	0		11.3	-6.2	10.7	-13.1	9.6	-3.9	9.1	-13.5		
08/29/86	1200		11.0	-6.2	10.3	-13.5	9.4	-4.0	8.8	-13.8		
08/30/86	0		11.3	-6.2	10.7	-13.2	9.5	-3.9	9.0	-13.8		
08/30/86	1200		11.2	-6.3	10.5	-13.3	9.5	-4.1	9.0	-13.8		
08/31/86	0		11.3	-6.1	10.7	-13.2	9.6	-3.9	9.0	-13.7		
08/31/86	1200		11.1	-6.3	10.5	-13.4	9.4	-4.0	8.9	-13.9		
09/01/86	0		11.3	-6.0	10.7	-13.1	9.6	-3.9	9.1	-13.7		
09/01/86	1200		11.0	-6.4	10.4	-13.4	9.4	-3.9	8.8	-13.9		
09/02/86	0		11.4	-6.0	10.8	-13.1	9.6	-3.9	9.1	-14.1		
09/02/86	1200		11.1	-6.2	10.4	-13.4	9.4	-3.9	8.8	-13.9		
09/03/86	0		11.4	-6.2	10.8	-13.0	9.7	-4.0	9.2	-13.8		
09/03/86	1200		11.1	-6.2	10.4	-13.4	9.4	-3.9	8.8	-13.7		
09/04/86	0		11.5	-5.8	10.9	-13.0	9.7	-3.9	9.2	-13.8		
09/04/86	1200		11.1	-6.0	10.4	-13.4	9.5	-3.9	8.8	-14.0		
09/05/86	0		11.5	-6.2	10.9	-13.1	9.8	-3.9	9.2	-14.1		
09/05/86	1200		11.1	-6.2	10.4	-13.5	9.5	-4.0	8.8	-13.9		
09/06/86	0		11.5	-6.0	10.9	-13.0	9.8	-4.0	9.2	-13.9		
09/06/86	1200		11.2	-5.9	10.6	-13.3	9.6	-4.0	9.0	-14.0		
09/07/86	0		11.5	-5.9	10.9	-13.0	9.8	-4.0	9.2	-13.8		
09/07/86	1200		11.3	-6.1	10.6	-13.3	9.6	-4.0	9.0	-13.9		
09/08/86	0		11.6	-6.0	11.0	-13.0	9.8	-3.9	9.3	-13.9		
09/08/86	1200		11.2	-6.2	10.6	-13.5	9.5	-4.1	8.9	-14.0		
09/09/86	0		11.5	-6.1	10.9	-13.1	9.8	-4.0	9.2	-14.1		
09/09/86	1200		11.4	-6.2	10.8	-13.2	9.7	-4.0	9.1	-14.0		
09/10/86	0		11.4	-6.0	10.8	-13.2	9.7	-3.9	9.1	-14.0		
09/10/86	1200		11.4	-6.0	10.8	-13.3	9.7	-3.9	9.1	-13.9		
09/11/86	0		11.6	-6.0	11.0	-13.1	9.9	-3.9	9.3	-14.1		

Table 2.--Temperature and soil-water potential for undisturbed soil beneath the horizontal
culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#14 3.8		tcp#15 4.1		tcp#10 5.4		tcp#11 6.1	
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)
09/11/86	1200	11.4	-5.9	10.7	-13.1	9.6	-4.0	9.1
09/12/86	0	11.6	-5.8	11.0	-13.0	9.9	-3.8	9.3
09/12/86	1200	11.4	-6.0	10.8	-13.1	9.7	-3.9	9.1
09/13/86	0	11.7	-5.8	11.1	-12.8	9.9	-3.8	9.3
09/13/86	1200	11.4	-5.9	10.8	-13.2	9.7	-3.9	9.1
09/14/86	0	11.6	-5.7	11.0	-13.0	9.9	-3.9	9.3
09/14/86	1200	11.5	-6.0	10.9	-13.2	9.8	-4.0	9.2
09/15/86	0	11.5	-5.8	11.0	-13.1	9.8	-3.9	9.2
09/15/86	1200	11.5	-5.9	10.9	-13.2	9.8	-4.0	9.2
09/16/86	0	11.5	-5.7	11.1	-13.0	9.8	-3.9	9.2
09/16/86	1200	11.5	-6.0	10.9	-13.0	9.8	-3.8	9.2
09/17/86	0	11.7	-5.8	11.1	-12.9	10.0	-3.9	9.4
09/17/86	1200	11.6	-5.9	10.9	-13.0	9.9	-4.0	9.2
09/18/86	0	11.6	-6.1	11.0	-13.0	9.9	-3.9	9.3
09/18/86	1200	11.6	-5.8	11.0	-13.1	9.9	-4.0	9.3
09/19/86	0	11.7	-5.8	11.1	-12.9	10.0	-3.9	9.4
09/19/86	1200	11.5	-5.7	11.0	-12.9	9.9	-3.8	9.2
09/20/86	0	11.6	-5.9	11.1	-12.9	10.0	-3.9	9.3
09/20/86	1200	11.6	-6.0	11.0	-12.9	9.9	-3.8	9.3
09/21/86	0	11.7	-6.0	11.2	-12.9	10.0	-4.0	9.4
09/21/86	1200	11.6	-5.9	11.0	-13.0	10.0	-3.9	9.3
09/22/86	0	11.7	-5.8	11.2	-12.9	10.0	-3.8	9.4
09/22/86	1200	11.6	-5.8	11.0	-13.0	9.9	-3.8	9.3
09/23/86	0	11.7	-5.7	11.2	-12.8	10.1	-3.9	9.4
09/23/86	1200	11.5	-5.8	11.0	-13.0	9.9	-4.0	9.3
09/24/86	0	11.8	-5.8	11.2	-12.9	10.1	-3.9	9.5
09/24/86	1200	11.6	-6.0	11.1	-13.0	10.0	-4.0	9.4
09/25/86	0	11.6	-5.9	11.2	-12.9	10.0	-3.9	9.3
09/25/86	1200	11.6	-6.1	11.1	-13.0	10.0	-4.0	9.4
09/26/86	0	11.7	-5.9	11.2	-12.8	10.1	-3.9	9.5
09/26/86	1200	11.7	-5.7	11.2	-12.8	10.1	-3.8	9.5
09/27/86	0	11.4	-5.7	11.2	-12.8	10.0	-3.9	9.2
09/27/86	1200	11.6	-5.8	11.1	-12.9	10.1	-3.9	9.4
09/28/86	0	11.6	-5.7	11.2	-12.7	10.1	-4.0	9.5
09/28/86	1200	11.6	-5.9	11.1	-12.9	10.1	-4.0	9.4
09/29/86	0	11.4	-5.5	11.2	-12.7	10.0	-3.8	9.3

Table 2.--Temperature and soil-water potential for undisturbed soil beneath the horizontal
culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)		tcp#14				tcp#15				tcp#10				tcp#11			
		3.8				4.1				5.4				6.1			
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)		
09/29/86	1200	11.5	-5.9	11.1	-12.7	10.1	-4.0	9.4	-14.2								
09/30/86	0	11.6	-5.6	11.2	-12.7	10.2	-3.9	9.6	-14.1								
09/30/86	1200	11.4	-5.5	11.2	-12.7	10.0	-3.8	9.3	-14.2								
10/01/86	0	11.6	-5.9	11.2	-12.7	10.1	-3.9	9.5	-14.1								
10/01/86	1200	11.5	-5.8	11.2	-12.7	10.1	-3.9	9.5	-14.2								
10/02/86	0	11.6	-5.7	11.2	-12.6	10.2	-3.9	9.5	-14.1								
10/02/86	1200	11.6	-5.8	11.1	-12.8	10.2	-3.9	9.5	-14.2								
10/03/86	0	11.6	-5.6	11.2	-12.7	10.2	-3.9	9.6	-14.2								
10/03/86	1200	11.5	-5.7	11.1	-12.8	10.1	-3.8	9.5	-14.2								
10/04/86	0	11.4	-5.5	11.2	-12.5	10.1	-3.8	9.4	-14.0								
10/04/86	1200	11.5	-5.7	11.1	-12.8	10.2	-3.8	9.5	-14.1								
10/05/86	0	11.6	-5.6	11.2	-12.6	10.3	-3.8	9.6	-14.2								
10/05/86	1200	11.5	-5.4	11.1	-12.7	10.2	-3.9	9.5	-13.8								
10/06/86	0	11.6	-5.4	11.3	-12.4	10.3	-3.8	9.7	-14.0								
10/06/86	1200	11.5	-5.4	11.1	-12.7	10.2	-3.9	9.5	-14.0								
10/07/86	0	11.6	-5.4	11.3	-12.4	10.3	-3.8	9.7	-13.9								
10/07/86	1200	11.4	-5.5	11.0	-12.7	10.2	-3.9	9.5	-14.2								
10/08/86	0	11.7	-5.6	11.3	-12.5	10.4	-3.8	9.7	-13.9								
10/08/86	1200	11.5	-5.6	11.1	-12.6	10.2	-4.0	9.6	-14.2								
10/09/86	0	11.7	-5.5	11.4	-12.3	10.4	-4.0	9.7	-13.9								
10/09/86	1200	11.5	-5.6	11.1	-12.5	10.2	-4.0	9.6	-14.3								
10/10/86	0	11.6	-5.4	11.3	-12.4	10.4	-3.9	9.7	-14.0								
10/10/86	1200	11.5	-5.5	11.1	-12.7	10.3	-3.9	9.6	-14.0								
10/11/86	0	11.5	-5.4	11.2	-12.5	10.4	-3.9	9.7	-14.1								
10/11/86	1200	11.5	-5.5	11.2	-12.4	10.3	-3.8	9.7	-14.1								
10/12/86	0	11.3	-5.5	11.2	-12.4	10.2	-3.9	9.5	-14.2								
10/12/86	1200	11.3	-5.4	11.1	-12.5	10.1	-3.9	9.5	-14.3								
10/13/86	0	11.4	-5.6	11.2	-12.5	10.3	-3.9	9.7	-14.0								
10/13/86	1200	11.3	-5.3	11.1	-12.6	10.2	-3.9	9.6	-14.3								
10/14/86	0	11.4	-5.4	11.2	-12.4	10.3	-3.9	9.7	-14.3								
10/14/86	1200	11.3	-5.6	11.1	-12.4	10.3	-4.0	9.6	-14.2								
10/15/86	0	11.4	-5.2	11.2	-12.3	10.3	-3.8	9.7	-14.0								
10/15/86	1200	11.4	-5.3	11.1	-12.5	10.3	-3.9	9.6	-14.0								
10/16/86	0	11.5	-5.4	11.2	-12.4	10.4	-3.8	9.8	-14.2								
10/16/86	1200	11.4	-5.2	11.1	-12.5	10.3	-4.0	9.7	-14.0								
10/17/86	0	11.5	-5.3	11.3	-12.3	10.4	-3.9	9.8	-13.9								

Table 2.--Temperature and soil-water potential for undisturbed soil beneath the horizontal
culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#14 3.8			tcp#15 4.1			tcp#10 5.4			tcp#11 6.1		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
10/17/86	1200	11.3	-5.4	11.1	-12.5	10.2		-3.9	9.6	-14.2		
10/18/86	0	11.5	-5.4	11.2	-12.4	10.4		-3.8	9.8	-14.1		
10/18/86	1200	11.4	-5.1	11.1	-12.5	10.3		-4.0	9.7	-13.9		
10/19/86	0	11.4	-5.2	11.2	-12.4	10.4		-4.0	9.8	-13.9		
10/19/86	1200	11.3	-5.3	11.1	-12.5	10.3		-3.9	9.7	-14.2		
10/20/86	0	11.3	-5.5	11.2	-12.3	10.4		-4.0	9.7	-14.3		
10/20/86	1200	11.3	-5.1	11.0	-12.5	10.3		-3.8	9.7	-14.3		
10/21/86	0	11.4	-5.2	11.1	-12.3	10.3		-3.9	9.8	-14.0		
10/21/86	1200	11.2	-5.1	11.0	-12.4	10.3		-3.9	9.7	-14.0		
10/22/86	0	11.3	-5.3	11.2	-12.4	10.4		-3.9	9.8	-14.0		
10/22/86	1200	11.3	-5.1	11.0	-12.5	10.3		-4.0	9.7	-14.2		
10/23/86	0	11.4	-5.2	11.2	-12.4	10.4		-3.9	9.8	-14.1		
10/23/86	1200	11.2	-5.0	11.0	-12.5	10.3		-3.9	9.7	-14.0		
10/24/86	0	11.4	-5.2	11.2	-12.2	10.4		-3.9	9.8	-14.0		
10/25/86	0	11.3	-5.0	11.2	-12.3	10.4		-3.9	9.8	-13.9		
10/25/86	1200	11.2	-5.0	11.0	-12.5	10.3		-3.9	9.8	-14.0		
10/26/86	0	11.3	-5.1	11.2	-12.1	10.4		-3.9	9.9	-13.8		
10/26/86	1200	11.2	-5.2	11.0	-12.4	10.3		-4.0	9.7	-13.9		
10/27/86	0	11.3	-5.2	11.2	-12.2	10.4		-3.9	9.8	-14.2		
10/27/86	1200	11.2	-5.0	11.0	-12.4	10.3		-3.9	9.8	-14.1		
10/28/86	0	11.3	-5.0	11.2	-12.3	10.4		-3.9	9.9	-13.8		
10/28/86	1200	11.2	-5.0	10.9	-12.3	10.4		-4.0	9.8	-14.0		
10/29/86	0	11.1	-5.0	11.1	-12.3	10.3		-4.0	9.8	-14.1		
10/29/86	1200	11.2	-5.0	11.0	-12.4	10.3		-3.9	9.8	-14.0		
10/30/86	0	11.2	-5.0	11.1	-12.2	10.4		-3.9	9.9	-14.0		
10/30/86	1200	11.1	-5.1	10.9	-12.4	10.3		-4.0	9.7	-14.0		
10/31/86	0	11.2	-5.1	11.1	-12.2	10.4		-3.9	9.9	-13.9		
10/31/86	1200	11.2	-4.9	11.0	-12.4	10.5		-3.8	9.9	-14.0		
11/01/86	0	11.0	-4.9	11.0	-12.2	10.3		-3.8	9.7	-13.9		
11/01/86	1200	11.2	-4.9	11.0	-12.2	10.5		-3.8	9.9	-14.0		
11/02/86	0	11.0	-4.8	11.0	-12.2	10.3		-3.7	9.7	-13.9		
11/02/86	1200	11.1	-4.9	10.9	-12.3	10.4		-3.9	9.9	-13.9		
11/03/86	0	11.1	-4.7	11.0	-12.2	10.4		-3.9	9.8	-13.9		
11/03/86	1200	11.1	-4.9	10.9	-12.4	10.4		-4.0	9.9	-14.0		
11/04/86	0	11.2	-5.0	11.1	-12.2	10.5		-3.9	9.9	-13.8		
11/04/86	1200	11.1	-4.8	10.9	-12.3	10.4		-3.9	9.8	-13.8		

Table 2.--Temperature and soil-water potential for undisturbed soil beneath the horizontal
culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#14 3.8			tcp#15 4.1			tcp#10 5.4			tcp#11 6.1		
	Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
11/05/86	0		10.9	-5.0	11.0	-12.2	10.3	-3.9	9.7	-14.0		
11/05/86	1200		11.1	-4.8	10.9	-12.3	10.4	-3.8	9.9	-14.1		
11/06/86	0		11.1	-4.9	11.0	-12.3	10.5	-3.9	9.9	-13.9		
11/06/86	1200		11.1	-4.9	11.0	-12.3	10.5	-3.9	9.9	-14.1		
11/07/86	0		11.0	-4.8	11.1	-12.3	10.4	-3.9	9.9	-14.1		
11/07/86	1200		11.1	-4.9	11.0	-12.3	10.5	-3.9	9.9	-14.3		
11/08/86	0		11.1	-4.8	11.1	-12.1	10.5	-4.0	10.0	-14.1		
11/08/86	1200		11.0	-4.8	10.9	-12.2	10.5	-3.9	9.9	-13.8		
11/09/86	0		10.9	-4.9	10.9	-12.1	10.4	-3.8	9.8	-14.0		
11/09/86	1200		11.1	-4.7	10.9	-12.2	10.5	-3.9	10.0	-14.0		
11/10/86	0		10.8	-4.7	10.9	-12.2	10.3	-3.9	9.8	-14.2		
11/10/86	1200		11.0	-4.8	11.0	-12.1	10.5	-4.0	10.0	-13.9		
11/11/86	0		10.8	-4.7	10.8	-12.2	10.3	-3.8	9.7	-14.0		
11/11/86	1200		11.0	-4.8	10.9	-12.1	10.5	-3.9	10.0	-13.9		
11/12/86	0		10.7	-4.4	10.8	-12.2	10.3	-3.9	9.7	-13.9		
11/12/86	1200		10.7	-4.5	10.8	-12.2	10.3	-4.0	9.8	-13.9		
11/13/86	0		10.9	-4.3	10.9	-12.0	10.4	-3.9	9.9	-13.9		
11/13/86	1200		10.9	-4.5	10.9	-12.0	10.4	-3.9	9.9	-14.0		
11/14/86	0		10.7	-4.3	10.8	-12.3	10.3	-3.8	9.8	-14.1		
11/14/86	1200		10.8	-4.5	10.8	-12.2	10.4	-3.8	9.9	-14.0		
11/15/86	0		10.8	-4.5	10.8	-12.0	10.4	-3.8	9.9	-14.1		
11/15/86	1200		10.8	-4.6	10.8	-12.1	10.5	-4.0	10.0	-14.0		
11/16/86	0		10.8	-4.5	10.9	-12.1	10.5	-3.7	10.0	-14.0		
11/16/86	1200		10.7	-4.7	10.8	-12.1	10.4	-3.9	9.9	-13.9		
11/17/86	0		10.7	-4.3	10.8	-12.2	10.3	-3.9	9.8	-14.0		
11/17/86	1200		10.7	-4.5	10.7	-12.2	10.3	-4.0	9.8	-13.9		
11/18/86	0		10.6	-4.4	10.7	-12.0	10.3	-3.9	9.8	-14.2		
11/18/86	1200		10.7	-4.4	10.7	-12.1	10.4	-3.9	10.0	-13.8		
11/19/86	0		10.5	-4.5	10.7	-12.3	10.3	-3.9	9.8	-14.0		
11/19/86	1200		10.6	-4.6	10.6	-12.2	10.4	-3.9	9.9	-13.8		
11/20/86	0		10.6	-4.5	10.7	-11.9	10.4	-4.0	10.0	-13.8		
11/20/86	1200		10.6	-4.6	10.6	-12.1	10.4	-3.8	9.9	-13.9		
11/21/86	0		10.6	-4.6	10.8	-12.1	10.4	-3.9	9.9	-14.1		
11/21/86	1200		10.6	-4.4	10.6	-12.2	10.4	-4.0	10.0	-13.8		
11/22/86	0		10.4	-4.2	10.7	-12.1	10.3	-4.1	9.8	-13.9		
11/22/86	1200		10.6	-4.3	10.7	-12.0	10.4	-3.9	10.0	-13.8		

Table 2.--Temperature and soil-water potential for undisturbed soil beneath the horizontal
culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#14 3.8			tcp#15 4.1			tcp#10 5.4			tcp#11 6.1		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
11/23/86	0	10.6	-4.4	10.7	-12.0	10.4		-3.9	9.9	-13.8		
11/23/86	1200	10.5	-4.2	10.6	-11.9	10.3		-4.0	9.9	-13.6		
11/24/86	0	10.5	-4.3	10.7	-11.9	10.3		-3.8	9.9	-13.8		
11/24/86	1200	10.4	-4.5	10.5	-12.1	10.3		-4.0	9.9	-14.1		
11/25/86	0	10.5	-4.4	10.7	-11.9	10.4		-4.0	10.0	-13.8		
11/25/86	1200	10.4	-4.3	10.5	-12.0	10.3		-4.0	9.9	-13.6		
11/26/86	0	10.5	-4.5	10.7	-11.8	10.4		-3.9	10.0	-14.0		
11/26/86	1200	10.4	-4.5	10.6	-11.9	10.3		-3.8	9.9	-13.9		
11/27/86	0	10.3	-4.3	10.6	-11.8	10.3		-4.0	9.9	-13.8		
11/27/86	1200	10.4	-4.1	10.5	-11.9	10.4		-4.0	10.0	-13.7		
11/28/86	0	10.3	-4.2	10.5	-11.9	10.2		-3.9	9.9	-13.8		
11/28/86	1200	10.4	-4.2	10.5	-11.8	10.3		-3.9	10.0	-13.7		
11/29/86	0	10.3	-4.3	10.5	-11.8	10.3		-3.9	9.9	-13.8		
11/29/86	1200	10.3	-4.2	10.5	-11.7	10.3		-4.0	10.0	-13.5		
11/30/86	0	10.3	-4.4	10.6	-11.5	10.3		-4.0	10.0	-13.8		
11/30/86	1200	10.2	-4.1	10.4	-11.7	10.2		-3.8	9.9	-13.6		
12/01/86	0	10.2	-4.1	10.5	-11.5	10.1		-3.9	9.8	-13.6		
12/01/86	1200	10.2	-4.0	10.4	-11.5	10.2		-3.8	9.9	-13.8		
12/02/86	0	10.1	-4.2	10.5	-11.4	10.2		-4.1	9.8	-13.9		
12/02/86	1200	10.2	-4.1	10.4	-11.4	10.3		-3.9	9.9	-13.7		
12/03/86	0	10.0	-4.0	10.4	-11.3	10.1		-4.0	9.7	-13.9		
12/03/86	1200	10.1	-3.9	10.4	-11.2	10.2		-4.0	9.9	-13.6		
12/04/86	0	10.3	-3.9	10.5	-11.2	10.3		-3.9	10.0	-13.7		
12/04/86	1200	10.2	-3.9	10.4	-11.1	10.3		-3.9	10.0	-13.7		
12/05/86	0	10.2	-3.9	10.4	-11.1	10.3		-3.9	10.0	-13.6		
12/05/86	1200	10.1	-3.9	10.3	-11.3	10.2		-4.0	9.9	-13.7		
12/06/86	0	10.2	-4.1	10.4	-11.1	10.3		-3.8	10.0	-13.8		
12/06/86	1200	10.2	-3.9	10.5	-10.9	10.2		-3.9	10.1	-13.8		
12/07/86	0	10.1	-3.9	10.4	-10.9	10.2		-3.9	10.0	-13.4		
12/07/86	1200	9.9	-3.8	10.2	-11.0	10.1		-3.8	9.8	-13.6		
12/08/86	0	10.1	-3.9	10.4	-10.8	10.2		-3.8	10.0	-13.6		
12/08/86	1200	9.9	-4.1	10.3	-10.8	10.2		-3.8	9.9	-13.8		
12/09/86	0	9.9	-3.8	10.2	-10.8	10.1		-3.9	9.8	-13.5		
12/09/86	1200	9.8	-3.9	10.1	-10.9	10.0		-4.0	9.7	-13.5		
12/10/86	0	9.9	-3.6	10.3	-10.7	10.1		-4.0	9.9	-13.7		
12/10/86	1200	10.0	-3.6	10.3	-10.5	10.2		-3.9	10.0	-13.6		

Table 2.--Temperature and soil-water potential for undisturbed soil beneath the horizontal
culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#14			tcp#15			tcp#10			tcp#11		
	3.8			4.1			5.4			6.1		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
12/11/86	0	9.7	-3.6	10.2	-10.5	9.9	9.9	-3.8	9.7	-13.5	9.7	-13.5
12/11/86	1200	9.9	-3.7	10.1	-10.6	10.1	10.1	-4.0	9.9	-13.6	9.9	-13.6
12/12/86	0	9.9	-4.0	10.3	-10.4	10.1	10.1	-4.0	10.0	-13.6	10.0	-13.6
12/12/86	1200	9.7	-3.5	10.0	-10.3	10.0	10.0	-3.9	9.7	-13.5	9.7	-13.5
12/13/86	0	9.8	-3.7	10.2	-10.2	10.1	10.1	-3.9	9.9	-13.3	9.9	-13.3
12/13/86	1200	10.0	-3.7	10.4	-10.0	10.2	10.2	-3.9	10.1	-13.5	10.1	-13.5
12/14/86	0	9.7	-3.8	10.2	-10.2	10.1	10.1	-3.8	9.9	-13.4	9.9	-13.4
12/14/86	1200	9.7	-3.7	9.9	-10.3	10.0	10.0	-3.9	9.8	-13.5	9.8	-13.5
12/15/86	0	9.6	-3.6	10.1	-10.0	10.0	10.0	-4.0	9.8	-13.6	9.8	-13.6
12/15/86	1200	9.6	-3.6	9.9	-10.1	10.0	10.0	-4.0	9.8	-13.4	9.8	-13.4
12/16/86	0	9.5	-3.8	10.0	-10.0	9.9	9.9	-4.0	9.7	-13.6	9.7	-13.6
12/16/86	1200	9.7	-3.5	10.0	-9.8	10.1	10.1	-3.9	9.9	-13.4	9.9	-13.4
12/17/86	0	9.4	-3.4	9.9	-9.9	9.9	9.9	-3.9	9.6	-13.2	9.6	-13.2
12/17/86	1200	9.5	-3.7	9.9	-9.8	10.0	10.0	-4.2	9.8	-13.3	9.8	-13.3
12/18/86	0	9.5	-3.4	10.0	-9.6	10.0	10.0	-4.0	9.8	-13.3	9.8	-13.3
12/18/86	1200	9.4	-3.2	9.8	-9.8	9.9	9.9	-3.9	9.7	-13.4	9.7	-13.4
12/19/86	0	9.4	-3.4	9.9	-9.8	9.9	9.9	-3.8	9.7	-13.3	9.7	-13.3
12/19/86	1200	9.5	-3.2	9.9	-9.6	10.0	10.0	-3.9	9.9	-13.3	9.9	-13.3
12/20/86	0	9.4	-3.4	9.9	-9.7	9.9	9.9	-4.0	9.8	-13.5	9.8	-13.5
12/20/86	1200	9.3	-3.2	9.8	-9.6	9.8	9.8	-3.9	9.7	-13.3	9.7	-13.3
12/21/86	0	9.3	-3.3	9.9	-9.6	9.9	9.9	-3.9	9.7	-13.3	9.7	-13.3
12/21/86	1200	9.4	-3.1	9.9	-9.5	10.0	10.0	-3.9	9.9	-13.0	9.9	-13.0
12/22/86	0	9.3	-3.2	9.8	-9.5	9.9	9.9	-4.0	9.8	-13.3	9.8	-13.3
12/22/86	1200	9.3	-3.2	9.8	-9.5	9.9	9.9	-4.0	9.8	-13.1	9.8	-13.1
12/23/86	0	9.4	-3.1	9.8	-9.4	9.9	9.9	-3.9	9.9	-13.3	9.9	-13.3
12/23/86	1200	9.3	-3.2	9.6	-9.5	9.9	9.9	-4.0	9.8	-13.4	9.8	-13.4
12/24/86	0	9.3	-3.2	9.8	-9.3	9.9	9.9	-4.0	9.8	-13.4	9.8	-13.4
12/24/86	1200	9.2	-2.9	9.7	-9.4	9.8	9.8	-3.9	9.8	-13.3	9.8	-13.3
12/25/86	0	9.1	-3.1	9.6	-9.4	9.7	9.7	-3.9	9.6	-13.3	9.6	-13.3
12/25/86	1200	9.1	-3.3	9.7	-9.4	9.8	9.8	-4.0	9.7	-13.3	9.7	-13.3
12/26/86	0	9.2	-2.9	9.7	-9.3	9.9	9.9	-3.9	9.8	-13.0	9.8	-13.0
12/26/86	1200	9.2	-3.1	9.7	-9.3	9.9	9.9	-3.9	9.8	-13.1	9.8	-13.1
12/27/86	0	9.1	-3.1	9.6	-9.3	9.8	9.8	-4.0	9.7	-13.1	9.7	-13.1
12/27/86	1200	9.2	-2.8	9.6	-9.2	9.9	9.9	-4.0	9.9	-13.1	9.9	-13.1
12/28/86	0	9.1	-3.1	9.7	-9.2	9.8	9.8	-4.0	9.8	-13.1	9.8	-13.1
12/28/86	1200	8.9	-2.9	9.4	-9.3	9.6	9.6	-4.0	9.6	-13.0	9.6	-13.0

Table 2.--Temperature and soil-water potential for undisturbed soil beneath the horizontal
culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)		tcp#14		tcp#15		tcp#10		tcp#11	
3.8		3.8		4.1		5.4		6.1	
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
12/29/86	0	8.9	-2.8	9.6	-9.3	9.7	-4.0	9.7	-13.0
12/29/86	1200	8.8	-3.0	9.5	-9.3	9.7	-4.0	9.6	-13.2
12/30/86	0	9.0	-2.8	9.5	-9.3	9.8	-3.9	9.8	-13.0
12/30/86	1200	8.9	-2.8	9.4	-9.3	9.7	-3.8	9.7	-13.2
12/31/86	0	9.0	-2.8	9.5	-9.1	9.8	-3.9	9.8	-13.0
12/31/86	1200	9.0	-2.6	9.5	-9.2	9.7	-4.0	9.7	-13.2

Table 3.--Temperature and soil-water potential for disturbed soil above the horizontal culvert at the west test trench

Sensor identifier Depth below land surface (meters)	tcp#9			tcp#8			tcp#13			tcp#12		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
11/09/85	0	6.3	-10.7	7.0	>-1.0	7.4	7.4	-15.1	7.9	-14.9	7.9	-14.9
11/09/85	1200	6.1	-11.0	6.8	>-1.0	7.1	7.1	-15.0	7.6	-14.9	7.6	-14.9
11/10/85	0	5.9	-12.4	6.8	>-1.0	7.2	7.2	-15.2	7.7	-15.0	7.7	-15.0
11/10/85	1200	5.5	-12.9	6.5	>-1.0	7.0	7.0	-15.6	7.5	-15.2	7.5	-15.2
11/11/85	0	5.2	-13.4	6.4	>-1.0	6.8	6.8	-16.0	7.4	-15.5	7.4	-15.5
11/11/85	1200	5.0	-13.5	6.2	>-1.0	6.7	6.7	-16.1	7.4	-15.6	7.4	-15.6
11/12/85	0	4.7	-13.5	5.9	-1.0	6.4	6.4	-16.3	7.1	-16.0	7.1	-16.0
11/12/85	1200	4.6	-13.1	5.9	-1.0	6.5	6.5	-16.8	7.2	-16.1	7.2	-16.1
11/13/85	0	4.5	-13.0	5.8	-1.1	6.3	6.3	-17.1	7.0	-16.5	7.0	-16.5
11/13/85	1200	4.4	-12.7	5.6	-1.2	6.2	6.2	-16.7	7.0	-16.3	7.0	-16.3
11/14/85	0	4.3	-12.5	5.5	-1.4	6.1	6.1	-17.1	6.9	-16.4	6.9	-16.4
11/14/85	1200	4.2	-12.3	5.4	-1.3	6.0	6.0	-17.0	6.8	-16.4	6.8	-16.4
11/15/85	0	4.1	-12.2	5.2	-1.4	5.7	5.7	-17.1	6.5	-16.8	6.5	-16.8
11/15/85	1200	4.1	-11.9	5.2	-1.4	5.8	5.8	-17.1	6.5	-16.7	6.5	-16.7
11/16/85	0	4.0	-11.9	5.1	-1.7	5.6	5.6	-16.9	6.4	-16.9	6.4	-16.9
11/16/85	1200	4.1	-11.7	5.2	-1.7	5.7	5.7	-16.9	6.4	-16.9	6.4	-16.9
11/17/85	0	4.1	-11.8	5.2	-1.8	5.7	5.7	-17.0	6.4	-17.1	6.4	-17.1
11/17/85	1200	4.1	-11.8	5.1	-1.7	5.6	5.6	-17.0	6.3	-17.0	6.3	-17.0
11/18/85	0	4.0	-11.8	5.0	-2.0	5.5	5.5	-16.9	6.3	-16.9	6.3	-16.9
11/18/85	1200	4.0	-11.5	5.0	-2.0	5.5	5.5	-17.1	6.2	-17.0	6.2	-17.0
11/19/85	0	4.0	-11.5	4.9	-2.0	5.4	5.4	-16.8	6.2	-16.8	6.2	-16.8
11/19/85	1200	3.9	-11.4	4.8	-2.0	5.3	5.3	-16.6	5.9	-16.6	5.9	-16.6
11/20/85	0	3.9	-11.5	4.9	-2.1	5.3	5.3	-16.4	5.9	-16.3	5.9	-16.3
11/20/85	1200	3.6	-11.5	4.6	-2.0	4.9	4.9	-16.3	5.5	-16.4	5.5	-16.4
11/21/85	0	3.8	-11.5	4.7	-2.3	5.2	5.2	-16.2	5.8	-16.4	5.8	-16.4
11/21/85	1200	3.5	-11.3	4.5	-3.1	4.8	4.8	-16.3	5.4	-16.7	5.4	-16.7
11/22/85	0	3.4	-11.3	4.3	-4.1	4.6	4.6	-16.2	5.2	-16.4	5.2	-16.4
11/22/85	1200	3.5	-10.9	4.4	-4.0	4.8	4.8	-15.8	5.4	-15.9	5.4	-15.9
11/23/85	0	3.4	-11.1	4.2	-4.3	4.5	4.5	-16.0	5.1	-15.8	5.1	-15.8
11/23/85	1200	3.2	-11.0	4.1	-4.2	4.4	4.4	-15.5	4.9	-15.7	4.9	-15.7
11/24/85	0	3.1	-11.0	4.0	-4.3	4.2	4.2	-15.5	4.7	-15.7	4.7	-15.7
11/24/85	1200	3.0	-10.9	3.8	-4.4	4.2	4.2	-15.6	4.7	-15.5	4.7	-15.5
11/25/85	0	3.0	-11.1	3.9	-4.3	4.3	4.3	-15.3	4.9	-15.7	4.9	-15.7
11/25/85	1200	2.8	-11.1	3.7	-4.4	4.1	4.1	-15.5	4.6	-16.0	4.6	-16.0
11/26/85	0	2.8	-10.7	3.6	-4.5	4.2	4.2	-15.5	4.7	-15.9	4.7	-15.9
11/26/85	1200	2.6	-10.7	3.5	-4.4	3.9	3.9	-15.6	4.4	-15.9	4.4	-15.9

Table 3.--Temperature and soil-water potential for disturbed soil above the horizontal culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#9			tcp#8			tcp#13			tcp#12		
	0.5			0.6			0.8			0.9		
	Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
11/27/85	0	2.4	-10.6	3.3	-4.5	3.7	-15.4	4.2	-15.9			
11/27/85	1200	2.4	-10.9	3.2	-4.6	3.8	-15.5	4.3	-15.7			
11/28/85	0	2.4	-10.6	3.3	-4.3	3.9	-15.4	4.3	-16.1			
11/28/85	1200	2.3	-10.9	3.1	-4.3	3.6	-15.6	4.2	-16.1			
11/29/85	0	2.0	-10.8	2.9	-4.4	3.4	-15.6	4.0	-16.2			
11/29/85	1200	2.1	-10.8	2.9	-4.2	3.6	-15.7	4.1	-16.4			
11/30/85	0	1.8	-10.9	2.7	-4.7	3.3	-15.8	3.9	-16.6			
11/30/85	1200	2.0	-10.5	2.8	-4.4	3.6	-15.6	4.2	-16.5			
12/01/85	0	1.7	-10.3	2.6	-4.5	3.1	-15.7	3.7	-16.6			
12/01/85	1200	1.7	-10.4	2.6	-4.4	3.2	-15.7	3.8	-16.2			
12/02/85	0	1.6	-10.1	2.4	-4.4	3.1	-15.5	3.7	-16.4			
12/02/85	1200	1.7	-10.1	2.5	-4.3	3.2	-15.6	3.8	-16.4			
12/03/85	0	1.7	-10.0	2.5	-4.3	3.3	-15.3	3.8	-16.4			
12/03/85	1200	1.6	-10.0	2.3	-4.3	3.0	-15.3	3.6	-16.5			
12/04/85	0	1.6	-9.8	2.3	-4.3	3.2	-15.3	3.7	-16.6			
12/04/85	1200	1.6	-9.7	2.3	-4.3	3.1	-15.3	3.6	-16.0			
12/05/85	0	1.5	-9.9	2.2	-4.2	2.9	-15.1	3.5	-16.2			
12/05/85	1200	1.5	-9.9	2.2	-4.1	2.9	-15.2	3.4	-15.9			
12/06/85	0	1.6	-9.8	2.3	-4.4	3.1	-15.0	3.6	-15.7			
12/06/85	1200	1.5	-9.9	2.2	-4.3	3.0	-15.0	3.5	-15.6			
12/07/85	0	1.5	-9.8	2.2	-4.3	3.0	-14.9	3.5	-15.8			
12/07/85	1200	1.4	-10.0	2.1	-4.2	3.0	-14.7	3.5	-15.8			
12/08/85	0	1.4	-10.0	2.1	-4.3	3.0	-15.0	3.4	-16.0			
12/08/85	1200	1.3	-10.1	1.9	-4.5	2.8	-15.0	3.3	-15.9			
12/09/85	0	1.4	-9.8	2.0	-4.4	2.9	-15.0	3.4	-16.0			
12/09/85	1200	1.5	-9.8	2.1	-4.2	3.2	-14.9	3.7	-15.7			
12/10/85	0	1.3	-9.8	2.0	-4.3	2.8	-15.7	3.6	-19.9			
12/10/85	1200	1.4	-9.8	2.2	-4.5	3.3	-17.6	4.6	-24.3			
12/11/85	0	1.4	-10.4	2.3	-4.8	3.4	-18.9	4.5	-22.3			
12/11/85	1200	1.4	-11.0	2.5	-4.8	3.4	-18.7	4.4	-20.1			
12/12/85	0	1.7	-11.0	2.7	-4.7	3.6	-17.7	4.4	-18.7			
12/12/85	1200	1.7	-11.3	2.7	-4.6	3.5	-17.5	4.2	-18.0			
12/13/85	0	1.7	-11.0	2.6	-4.7	3.3	-16.7	4.0	-17.6			
12/13/85	1200	1.8	-11.0	2.7	-4.5	3.5	-16.3	4.1	-17.0			
12/14/85	0	1.8	-11.0	2.6	-4.6	3.4	-16.5	4.0	-17.0			
12/14/85	1200	1.7	-10.9	2.5	-4.5	3.3	-16.0	3.9	-16.8			

Table 3.--Temperature and soil-water potential for disturbed soil above the horizontal culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#9			tcp#8			tcp#13			tcp#12		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
12/15/85	0	1.6	-10.9	2.4	-4.6	3.1		-15.8	3.7	-16.9		
12/15/85	1200	1.5	-10.8	2.4	-4.4	3.0		-15.9	3.6	-16.4		
12/16/85	0	1.6	-10.9	2.4	-4.6	3.2		-15.6	3.8	-16.8		
12/16/85	1200	1.5	-10.7	2.3	-4.5	3.0		-15.8	3.6	-16.3		
12/17/85	0	1.4	-11.0	2.2	-4.5	2.9		-15.6	3.4	-16.3		
12/17/85	1200	1.3	-10.9	2.1	-4.5	2.8		-15.5	3.4	-16.2		
12/18/85	0	1.3	-10.7	2.1	-4.4	2.8		-15.1	3.4	-15.8		
12/18/85	1200	1.4	-11.0	2.1	-4.3	2.9		-14.9	3.5	-15.9		
12/19/85	0	1.2	-10.8	2.0	-4.5	2.7		-15.2	3.3	-16.0		
12/19/85	1200	1.3	-10.7	2.0	-4.3	2.9		-15.0	3.4	-16.0		
12/20/85	0	1.2	-10.9	2.0	-4.4	2.8		-15.3	3.4	-15.9		
12/20/85	1200	1.1	-10.8	1.9	-4.4	2.6		-15.1	3.2	-16.1		
12/21/85	0	1.2	-10.8	1.9	-4.5	2.7		-14.9	3.3	-16.0		
12/21/85	1200	1.1	-10.7	1.8	-4.4	2.6		-15.0	3.2	-16.0		
12/22/85	0	1.2	-10.6	1.9	-4.3	2.7		-14.8	3.3	-15.9		
12/22/85	1200	1.1	-10.6	1.7	-4.5	2.6		-14.8	3.1	-15.6		
12/23/85	0	1.2	-10.5	1.9	-4.5	2.7		-14.8	3.2	-15.4		
12/23/85	1200	0.9	-10.7	1.7	-4.5	2.5		-14.7	3.0	-15.3		
12/24/85	0	1.1	-10.7	1.8	-4.5	2.6		-14.7	3.1	-15.1		
12/24/85	1200	1.0	-10.9	1.7	-4.4	2.4		-14.8	2.9	-15.1		
12/25/85	0	0.8	-10.6	1.5	-4.3	2.3		-14.6	2.8	-15.3		
12/25/85	1200	0.8	-10.7	1.5	-4.3	2.3		-14.6	2.8	-15.3		
12/26/85	0	0.9	-10.8	1.6	-4.4	2.4		-14.5	2.9	-15.3		
12/26/85	1200	0.8	-10.7	1.5	-4.2	2.3		-14.6	2.8	-15.2		
12/27/85	0	0.8	-10.6	1.4	-4.3	2.3		-14.6	2.8	-15.2		
12/27/85	1200	0.7	-10.7	1.4	-4.5	2.2		-14.7	2.8	-15.1		
12/28/85	0	0.6	-11.0	1.4	-4.8	2.1		-14.9	2.7	-15.1		
12/28/85	1200	0.7	-10.6	1.3	-4.4	2.2		-14.5	2.7	-15.0		
12/29/85	0	0.6	-10.7	1.3	-4.6	2.0		-14.8	2.5	-14.8		
12/29/85	1200	0.7	-10.6	1.3	-4.4	2.2		-14.6	2.7	-14.9		
12/30/85	0	0.6	-10.6	1.3	-4.5	2.1		-14.6	2.6	-14.7		
12/30/85	1200	0.5	-10.7	1.2	-4.3	1.9		-14.9	2.5	-14.7		
12/31/85	0	0.6	-10.7	1.3	-4.4	2.1		-14.6	2.6	-14.4		
12/31/85	1200	0.4	-10.7	1.1	-4.5	1.9		-14.6	2.4	-14.4		
01/01/86	0	0.4	-10.9	1.0	-4.3	1.9		-14.4	2.4	-14.3		
01/01/86	1200	0.4	-10.7	1.1	-4.4	1.9		-14.1	2.4	-14.5		

Table 3.--Temperature and soil-water potential for disturbed soil above the horizontal
culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#9 0.5				tcp#8 0.6				tcp#13 0.8				tcp#12 0.9			
	Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
01/02/86	0	0	0.5	-10.7	1.1	-4.3	2.0	-14.1	2.6	-14.2						
01/02/86	1200		0.3	-10.9	1.0	-4.2	1.8	-14.3	2.3	-14.3						
01/03/86	0		0.4	-10.7	1.1	-4.1	2.0	-14.3	2.5	-14.4						
01/03/86	1200		0.4	-10.6	1.0	-4.2	2.0	-14.1	2.5	-14.5						
01/04/86	0		0.2	-10.6	0.9	-4.4	1.7	-14.4	2.3	-14.5						
01/04/86	1200		0.3	-10.7	1.0	-4.2	1.9	-13.9	2.4	-14.5						
01/05/86	0		0.3	-10.6	1.0	-4.1	1.8	-14.4	2.3	-14.3						
01/05/86	1200		0.1	-10.7	0.9	-4.0	1.6	-14.1	2.2	-14.4						
01/06/86	0		0.1	-10.5	0.8	-4.4	1.6	-14.1	2.2	-14.5						
01/06/86	1200		0.3	-10.5	0.9	-4.3	1.9	-13.8	2.4	-14.4						
01/07/86	0		0.1	-10.4	0.8	-4.1	1.6	-13.8	2.2	-14.1						
01/07/86	1200		0.1	-10.6	0.8	-4.2	1.6	-13.8	2.2	-14.0						
01/08/86	0		0.3	-10.5	1.0	-4.3	1.8	-13.6	2.3	-14.1						
01/08/86	1200		-0.0	-10.5	0.7	-4.0	1.4	-13.7	2.0	-14.2						
01/09/86	0		-0.0	-10.5	0.7	-4.1	1.4	-13.7	2.0	-14.1						
01/09/86	1200		-0.1	-10.5	0.7	-4.1	1.4	-13.6	1.9	-13.9						
01/10/86	0		0.1	-10.3	0.8	-4.2	1.6	-13.3	2.2	-13.8						
01/10/86	1200		0.2	-10.4	0.8	-4.3	1.7	-13.2	2.2	-13.7						
01/11/86	0		0.2	-10.2	0.8	-4.2	1.7	-13.1	2.2	-13.8						
01/11/86	1200		-0.1	-10.0	0.6	-4.4	1.4	-13.0	1.9	-13.9						
01/12/86	0		-0.1	-10.0	0.6	-4.2	1.4	-13.4	1.9	-13.8						
01/12/86	1200		0.1	-10.2	0.8	-4.2	1.6	-13.1	2.1	-13.6						
01/13/86	0		0.1	-10.1	0.8	-4.1	1.5	-13.1	2.1	-13.6						
01/13/86	1200		0.1	-10.3	0.7	-4.4	1.6	-12.9	2.1	-13.5						
01/14/86	0		0.2	-10.0	0.8	-4.5	1.7	-12.9	2.2	-13.5						
01/14/86	1200		-0.1	-9.9	0.6	-4.5	1.5	-12.8	2.0	-13.4						
01/15/86	0		-0.0	-10.3	0.6	-4.4	1.4	-12.9	1.9	-13.6						
01/15/86	1200		0.1	-9.9	0.8	-4.3	1.6	-12.6	2.1	-13.6						
01/16/86	0		-0.0	-10.1	0.7	-4.3	1.5	-12.6	2.0	-13.6						
01/16/86	1200		-0.1	-10.2	0.6	-4.3	1.4	-12.5	1.9	-13.6						
01/17/86	0		-0.1	-10.0	0.6	-4.3	1.5	-12.5	2.0	-13.5						
01/17/86	1200		0.0	-9.9	0.6	-4.4	1.5	-12.7	2.0	-13.5						
01/18/86	0		-0.2	-9.9	0.6	-4.4	1.3	-12.8	1.8	-13.4						
01/18/86	1200		0.1	-9.6	0.7	-4.4	1.5	-12.6	2.1	-13.5						
01/19/86	0		0.1	-9.6	0.7	-4.4	1.6	-12.2	2.1	-13.4						
01/19/86	1200		0.1	-9.6	0.7	-4.3	1.5	-12.5	2.0	-13.4						

Table 3.--Temperature and soil-water potential for disturbed soil above the horizontal culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#9				tcp#8				tcp#13				tcp#12			
	0.5				0.6				0.8				0.9			
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)
01/20/86	0	-0.0	-9.4	0.6	-4.4	1.4	-12.2	1.9	-13.8							
01/20/86	1200	0.2	-9.4	0.7	-4.3	1.5	-12.3	2.1	-13.5							
01/21/86	0	0.3	-9.4	0.8	-4.3	1.6	-12.0	2.1	-13.1							
01/21/86	1200	0.2	-9.3	0.7	-4.4	1.5	-11.8	2.0	-13.0							
01/22/86	0	0.3	-9.0	0.8	-4.3	1.6	-11.9	2.1	-12.8							
01/22/86	1200	0.3	-9.0	0.8	-4.3	1.5	-11.7	2.0	-12.8							
01/23/86	0	0.2	-9.1	0.7	-4.4	1.5	-11.6	1.9	-12.7							
01/23/86	1200	0.4	-9.0	0.9	-4.3	1.6	-11.5	2.1	-12.6							
01/24/86	0	0.4	-9.1	0.9	-4.3	1.5	-11.7	2.0	-12.7							
01/24/86	1200	0.1	-9.2	0.7	-4.2	1.2	-11.4	1.7	-12.6							
01/25/86	0	0.3	-9.1	0.8	-4.3	1.4	-11.1	1.8	-12.6							
01/25/86	1200	0.5	-8.8	1.0	-4.2	1.6	-11.4	2.0	-12.3							
01/26/86	0	0.4	-8.8	0.9	-4.2	1.5	-11.1	1.9	-12.4							
01/26/86	1200	0.4	-9.0	0.9	-4.3	1.5	-11.1	1.9	-12.2							
01/27/86	0	0.4	-8.6	1.0	-4.1	1.5	-11.2	1.9	-12.5							
01/27/86	1200	0.4	-8.8	0.9	-4.2	1.5	-11.0	2.0	-12.3							
01/28/86	0	0.2	-9.0	0.8	-4.3	1.3	-11.2	1.8	-12.6							
01/28/86	1200	0.3	-8.9	0.8	-4.2	1.4	-11.1	1.8	-12.9							
01/29/86	0	0.5	-8.9	1.0	-4.4	1.6	-11.1	2.0	-13.0							
01/29/86	1200	0.4	-9.1	0.9	-4.4	1.6	-10.9	2.0	-13.0							
01/30/86	0	0.4	-9.0	0.9	-4.3	1.5	-11.1	1.9	-13.3							
01/30/86	1200	0.3	-9.0	0.9	-4.6	1.5	-11.2	2.0	-13.3							
01/31/86	0	0.4	-8.9	0.9	-4.4	1.6	-11.4	2.0	-13.6							
01/31/86	1200	0.4	-9.0	0.9	-4.3	1.6	-11.3	2.0	-13.5							
02/01/86	0	0.3	-9.0	0.8	-4.3	1.4	-11.4	1.8	-13.4							
02/01/86	1200	0.4	-8.8	0.9	-4.3	1.5	-11.4	2.0	-13.4							
02/02/86	0	0.3	-8.9	0.9	-4.6	1.5	-11.3	1.9	-13.4							
02/02/86	1200	0.4	-8.9	1.0	-4.4	1.5	-11.2	2.0	-13.2							
02/03/86	0	0.6	-8.7	1.1	-4.4	1.7	-11.3	2.2	-13.4							
02/03/86	1200	0.5	-8.8	0.9	-4.2	1.5	-11.2	2.0	-13.2							
02/04/86	0	0.5	-8.6	1.0	-4.2	1.5	-11.2	2.0	-13.3							
02/04/86	1200	0.5	-8.8	1.0	-4.4	1.5	-11.3	2.0	-13.2							
02/05/86	0	0.4	-8.6	0.9	-4.5	1.5	-11.2	1.9	-13.3							
02/05/86	1200	0.5	-8.5	1.0	-4.5	1.5	-11.1	2.0	-13.1							
02/06/86	0	0.7	-8.4	1.1	-4.2	1.6	-11.5	2.1	-13.1							
02/06/86	1200	0.6	-8.3	1.1	-4.5	1.6	-11.0	2.0	-13.2							

Table 3.--Temperature and soil-water potential for disturbed soil above the horizontal
culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)		tcp#9				tcp#8				tcp#13				tcp#12			
		0.5		0.6		0.8		0.9									
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)				
02/07/86	0	0.7	-8.5	1.2	-4.4	1.6	-11.0	2.1	-13.2								
02/07/86	1200	0.7	-8.3	1.1	-4.4	1.6	-11.1	2.0	-13.1								
02/08/86	0	0.8	-8.3	1.2	-4.4	1.8	-11.1	2.1	-13.1								
02/08/86	1200	0.7	-8.3	1.2	-4.5	1.6	-11.0	2.0	-12.8								
02/09/86	0	0.8	-8.4	1.2	-4.3	1.7	-10.6	2.0	-12.5								
02/09/86	1200	0.7	-8.6	1.2	-4.5	1.6	-10.7	2.0	-12.4								
02/10/86	0	0.6	-8.7	1.2	-4.2	1.5	-10.7	1.9	-12.7								
02/10/86	1200	0.7	-8.8	1.2	-4.2	1.6	-10.5	2.0	-12.7								
02/11/86	0	0.4	-8.9	1.0	-4.3	1.3	-10.4	1.7	-12.7								
02/11/86	1200	0.4	-9.0	0.9	-4.1	1.4	-10.6	1.8	-12.9								
02/12/86	0	0.5	-9.0	1.1	-4.6	1.7	-10.5	2.0	-12.6								
02/12/86	1200	0.4	-8.9	0.9	-4.5	1.5	-10.4	1.9	-12.8								
02/13/86	0	0.4	-9.0	1.0	-4.3	1.6	-10.6	2.0	-12.8								
02/13/86	1200	0.5	-9.3	1.0	-4.6	1.6	-10.7	2.0	-12.9								
02/14/86	0	0.2	-9.1	0.7	-4.3	1.3	-10.5	1.7	-13.1								
02/14/86	1200	0.3	-9.0	0.9	-4.4	1.5	-10.6	1.9	-13.0								
02/15/86	0	0.4	-9.0	0.9	-4.6	1.6	-10.9	2.0	-13.0								
02/15/86	1200	0.4	-9.0	0.9	-4.4	1.6	-10.8	2.0	-13.1								
02/16/86	0	0.5	-9.0	0.9	-4.5	1.6	-10.7	2.1	-13.3								
02/16/86	1200	0.5	-8.5	0.9	-4.4	1.5	-10.7	2.0	-13.3								
02/17/86	0	0.3	-8.4	0.8	-4.8	1.3	-10.5	1.8	-13.6								
02/17/86	1200	0.6	-8.1	1.0	-4.4	1.7	-10.4	2.1	-13.2								
02/18/86	0	0.7	-7.3	1.0	-4.6	1.7	-10.3	2.1	-13.2								
02/18/86	1200	0.6	-6.0	1.0	-4.8	1.6	-10.2	2.1	-13.2								
02/19/86	0	0.7	-4.9	1.1	-4.5	1.7	-10.0	2.1	-12.9								
02/19/86	1200	0.6	-3.7	1.0	-4.3	1.7	-9.7	2.1	-13.0								
02/20/86	0	0.5	-3.0	1.0	-4.4	1.5	-9.7	1.9	-12.9								
02/20/86	1200	0.6	-2.8	1.0	-4.2	1.6	-9.4	2.0	-12.7								
02/21/86	0	0.7	-2.4	1.0	-4.1	1.6	-9.4	2.1	-12.8								
02/21/86	1200	0.7	-2.4	1.1	-4.4	1.7	-9.5	2.1	-12.6								
02/22/86	0	0.6	-2.3	1.0	-4.1	1.5	-9.3	1.9	-12.6								
02/22/86	1200	0.7	-2.1	1.1	-4.4	1.5	-9.1	2.0	-12.7								
02/23/86	0	0.8	-2.0	1.2	-4.5	1.6	-9.2	2.1	-12.5								
02/23/86	1200	0.7	-2.1	1.1	-4.0	1.6	-9.1	2.1	-12.6								
02/24/86	0	0.8	-1.9	1.2	-3.8	1.6	-9.2	2.1	-12.3								
02/24/86	1200	0.7	-2.0	1.1	-3.9	1.6	-8.6	2.1	-12.4								

Table 3.--Temperature and soil-water potential for disturbed soil above the horizontal culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#9			tcp#8			tcp#13			tcp#12		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil-water potential (bars)
02/25/86	0	0.7	-1.9	1.1	-3.8	1.6	1.5	-8.4	2.1	2.1	-12.5	-12.5
02/25/86	1200	0.7	-1.8	1.1	-3.8	1.5	1.6	-7.6	2.0	2.0	-12.5	-12.5
02/26/86	0	0.8	-2.0	1.2	-4.2	1.6	1.6	-6.9	2.1	2.1	-12.6	-12.6
02/26/86	1200	0.7	-1.6	1.1	-3.7	1.5	1.5	-6.1	2.0	2.0	-11.9	-11.9
02/27/86	0	0.8	-1.5	1.1	-3.8	1.5	1.5	-5.4	1.9	1.9	-11.6	-11.6
02/27/86	1200	1.0	-1.4	1.2	-3.6	1.5	1.5	-4.8	2.0	2.0	-11.6	-11.6
02/28/86	0	1.1	-1.5	1.3	-3.4	1.6	1.6	-4.2	2.0	2.0	-11.3	-11.3
02/28/86	1200	1.3	-1.2	1.5	-3.3	1.6	1.6	-4.0	2.0	2.0	-11.1	-11.1
03/01/86	0	1.5	-1.0	1.7	-3.8	1.7	1.7	-3.6	2.1	2.1	-10.9	-10.9
03/01/86	1200	1.6	-1.2	1.6	-3.2	1.7	1.7	-3.1	2.0	2.0	-10.6	-10.6
03/02/86	0	1.7	-1.0	1.8	-3.0	1.8	1.8	-2.9	2.1	2.1	-10.5	-10.5
03/02/86	1200	2.1	-1.1	2.0	-3.0	2.0	2.0	-2.4	2.3	2.3	-9.8	-9.8
03/03/86	0	2.3	-1.0	2.2	-2.9	2.1	2.1	-2.0	2.4	2.4	-9.6	-9.6
03/03/86	1200	2.5	-1.0	2.3	-2.9	2.2	2.2	-2.0	2.5	2.5	-9.4	-9.4
03/04/86	0	2.6	-1.1	2.5	-3.1	2.4	2.4	-1.7	2.7	2.7	-9.1	-9.1
03/04/86	1200	2.5	-1.1	2.4	-2.7	2.2	2.2	-1.6	2.4	2.4	-8.9	-8.9
03/05/86	0	2.9	-1.1	2.8	-2.7	2.7	2.7	-1.5	2.8	2.8	-8.6	-8.6
03/05/86	1200	2.9	-1.0	2.7	-2.7	2.7	2.7	-1.4	2.9	2.9	-8.4	-8.4
03/06/86	0	3.0	-1.2	2.9	-2.7	2.9	2.9	-1.4	3.0	3.0	-8.2	-8.2
03/06/86	1200	3.0	-1.1	2.9	-2.6	2.8	2.8	-1.4	2.9	2.9	-8.2	-8.2
03/07/86	0	3.2	-1.0	3.1	-2.5	3.1	3.1	-1.3	3.2	3.2	-7.9	-7.9
03/07/86	1200	3.2	-1.2	3.1	-2.4	2.9	2.9	-1.0	3.1	3.1	-8.1	-8.1
03/08/86	0	3.3	-1.0	3.2	-2.7	3.1	3.1	-1.1	3.2	3.2	-8.2	-8.2
03/08/86	1200	3.4	-1.1	3.2	-2.2	3.1	3.1	-1.0	3.3	3.3	-7.9	-7.9
03/09/86	0	3.5	-1.2	3.4	-2.4	3.2	3.2	-1.0	3.2	3.2	-7.8	-7.8
03/09/86	1200	3.5	-1.2	3.4	-2.2	3.2	3.2	-1.0	3.3	3.3	-7.3	-7.3
03/10/86	0	3.7	-1.3	3.6	-2.2	3.5	3.5	-1.0	3.6	3.6	-7.3	-7.3
03/10/86	1200	3.7	-1.1	3.6	-2.4	3.6	3.6	-1.0	3.6	3.6	-7.2	-7.2
03/11/86	0	3.6	-1.1	3.7	-2.1	3.6	3.6	-1.0	3.7	3.7	-7.1	-7.1
03/11/86	1200	3.5	-1.1	3.6	-2.1	3.6	3.6	-1.0	3.7	3.7	-7.1	-7.1
03/12/86	0	3.5	-1.1	3.6	-2.2	3.6	3.6	-1.0	3.7	3.7	-7.1	-7.1
03/12/86	1200	3.5	-1.1	3.6	-2.3	3.6	3.6	-1.0	3.8	3.8	-6.9	-6.9
03/13/86	0	3.3	-1.0	3.5	-1.9	3.4	3.4	-1.0	3.6	3.6	-6.7	-6.7
03/13/86	1200	3.6	-1.1	3.7	-2.0	3.7	3.7	-1.0	3.8	3.8	-6.9	-6.9
03/14/86	0	3.7	-1.1	3.7	-2.0	3.7	3.7	-1.0	3.8	3.8	-6.5	-6.5
03/14/86	1200	3.7	-1.1	3.7	-2.1	3.6	3.6	-1.0	3.8	3.8	-6.3	-6.3

Table 3.--Temperature and soil-water potential for disturbed soil above the horizontal
culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)		tcp#9 0.5			tcp#8 0.6			tcp#13 0.8			tcp#12 0.9		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
03/15/86	0	3.6	-1.1	3.7	-2.0	3.6	>-1.0	3.7	>-1.0	3.7	>-1.0	3.7	-6.3
03/15/86	1200	3.8	-1.1	3.8	-2.0	3.7	>-1.0	3.7	>-1.0	3.8	>-1.0	3.8	-6.0
03/16/86	0	3.8	-1.1	3.9	-2.0	3.9	>-1.0	3.9	>-1.0	4.0	>-1.0	4.0	-5.9
03/16/86	1200	3.8	>-1.0	3.8	-2.1	3.8	>-1.0	3.8	>-1.0	3.9	>-1.0	3.9	-5.9
03/17/86	0	3.7	-1.0	3.8	-2.3	3.8	>-1.0	3.8	>-1.0	3.9	>-1.0	3.9	-5.9
03/17/86	1200	3.6	-1.1	3.8	-2.2	3.8	>-1.0	3.8	>-1.0	4.0	>-1.0	4.0	-5.8
03/18/86	0	3.4	>-1.0	3.7	-2.2	3.8	>-1.0	3.8	>-1.0	4.0	>-1.0	4.0	-5.9
03/18/86	1200	3.1	-1.0	3.5	-2.2	3.6	>-1.0	3.6	>-1.0	3.8	>-1.0	3.8	-5.8
03/19/86	0	3.2	>-1.0	3.6	-2.2	3.8	>-1.0	3.8	>-1.0	4.0	>-1.0	4.0	-5.9
03/19/86	1200	3.1	-1.2	3.5	-2.3	3.6	>-1.0	3.6	>-1.0	3.9	>-1.0	3.9	-5.8
03/20/86	0	3.0	-1.0	3.4	-2.3	3.5	>-1.0	3.5	>-1.0	3.8	>-1.0	3.8	-5.9
03/20/86	1200	3.1	>-1.0	3.4	-2.7	3.4	>-1.0	3.4	>-1.0	3.7	>-1.0	3.7	-5.9
03/21/86	0	3.3	-1.0	3.5	-2.4	3.6	>-1.0	3.6	>-1.0	3.8	>-1.0	3.8	-5.8
03/21/86	1200	3.4	-1.0	3.6	-2.1	3.6	>-1.0	3.6	>-1.0	3.9	>-1.0	3.9	-5.3
03/22/86	0	3.7	-1.0	3.6	-2.1	3.7	>-1.0	3.7	>-1.0	3.9	>-1.0	3.9	-5.3
03/22/86	1200	3.8	>-1.0	3.7	-1.9	3.7	>-1.0	3.7	>-1.0	3.8	>-1.0	3.8	-5.2
03/23/86	0	4.0	>-1.0	3.9	-2.0	3.8	>-1.0	3.8	>-1.0	4.0	>-1.0	4.0	-4.9
03/23/86	1200	4.2	-1.0	3.9	-1.9	3.9	>-1.0	3.9	>-1.0	3.9	>-1.0	3.9	-4.7
03/24/86	0	4.4	>-1.0	4.1	-1.9	4.1	>-1.0	4.1	>-1.0	4.1	>-1.0	4.1	-4.7
03/24/86	1200	4.4	-1.1	4.1	-2.0	4.0	>-1.0	4.0	>-1.0	4.0	>-1.0	4.0	-4.3
03/25/86	0	4.6	>-1.0	4.3	-1.9	4.2	>-1.0	4.2	>-1.0	4.2	>-1.0	4.2	-4.0
03/25/86	1200	4.6	>-1.0	4.3	-1.8	4.2	>-1.0	4.2	>-1.0	4.1	>-1.0	4.1	-3.9
03/26/86	0	4.5	-1.1	4.4	-1.5	4.2	>-1.0	4.2	>-1.0	4.1	>-1.0	4.1	-3.9
03/26/86	1200	4.8	>-1.0	4.5	-2.0	4.4	>-1.0	4.4	>-1.0	4.4	>-1.0	4.4	-3.6
03/27/86	0	4.8	-1.0	4.6	-2.0	4.5	>-1.0	4.5	>-1.0	4.5	>-1.0	4.5	-3.6
03/27/86	1200	4.9	>-1.0	4.6	-1.7	4.5	>-1.0	4.5	>-1.0	4.5	>-1.0	4.5	-3.6
03/28/86	0	4.9	>-1.0	4.7	-1.7	4.5	>-1.0	4.5	>-1.0	4.5	>-1.0	4.5	-3.7
03/28/86	1200	5.2	>-1.0	4.8	-1.8	4.7	>-1.0	4.7	>-1.0	4.6	>-1.0	4.6	-3.5
03/29/86	0	5.6	>-1.0	5.2	-1.7	5.0	>-1.0	5.0	>-1.0	4.9	>-1.0	4.9	-3.4
03/29/86	1200	5.6	-1.0	5.0	-1.6	4.8	>-1.0	4.8	>-1.0	4.7	>-1.0	4.7	-3.2
03/30/86	0	5.9	>-1.0	5.4	-1.5	5.2	>-1.0	5.2	>-1.0	5.0	>-1.0	5.0	-3.1
03/30/86	1200	6.0	>-1.0	5.4	-1.5	5.1	>-1.0	5.1	>-1.0	4.9	>-1.0	4.9	-3.0
03/31/86	0	6.3	>-1.0	5.7	-1.3	5.5	>-1.0	5.5	>-1.0	5.2	>-1.0	5.2	-2.5
03/31/86	1200	6.4	>-1.0	5.7	-1.1	5.4	>-1.0	5.4	>-1.0	5.2	>-1.0	5.2	-2.6
04/01/86	0	6.5	>-1.0	5.9	-1.2	5.6	>-1.0	5.6	>-1.0	5.4	>-1.0	5.4	-2.1
04/01/86	1200	6.5	>-1.0	5.9	-1.5	5.6	>-1.0	5.6	>-1.0	5.3	>-1.0	5.3	-2.2

Table 3.---Temperature and soil-water potential for disturbed soil above the horizontal
culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)		tcp#9		tcp#8		tcp#13		tcp#12	
		0.5		0.6		0.8		0.9	
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
04/02/86	0	6.4	>-1.0	6.0	-1.4	5.7	>-1.0	5.4	-2.2
04/02/86	1200	6.4	>-1.0	6.2	-1.1	5.9	>-1.0	5.7	-2.1
04/03/86	0	6.1	>-1.0	6.1	-1.5	6.0	>-1.0	5.8	-2.1
04/03/86	1200	5.8	>-1.0	5.9	-1.4	5.8	>-1.0	5.7	-2.5
04/04/86	0	5.5	-1.0	5.7	-1.7	5.6	>-1.0	5.5	-2.5
04/04/86	1200	5.6	-1.0	5.6	-1.8	5.6	>-1.0	5.6	-2.6
04/05/86	0	5.7	-1.0	5.7	-1.9	5.7	>-1.0	5.7	-2.9
04/05/86	1200	5.7	-1.1	5.6	-1.8	5.6	>-1.0	5.6	-2.8
04/06/86	0	5.8	-1.0	5.7	-2.0	5.7	>-1.0	5.6	-3.0
04/06/86	1200	5.9	-1.1	5.7	-2.0	5.6	>-1.0	5.5	-2.9
04/07/86	0	6.1	>-1.0	5.9	-1.7	5.8	>-1.0	5.7	-2.8
04/07/86	1200	6.3	-1.0	5.9	-1.6	5.7	>-1.0	5.6	-2.6
04/08/86	0	6.5	>-1.0	6.1	-1.5	5.9	>-1.0	5.7	-2.4
04/08/86	1200	6.5	>-1.0	6.1	>-1.0	5.9	>-1.0	5.8	-2.4
04/09/86	0	6.4	>-1.0	6.2	>-1.0	5.9	>-1.0	5.7	-2.4
04/09/86	1200	6.5	>-1.0	6.2	>-1.0	6.1	>-1.0	5.9	-2.2
04/10/86	0	6.4	>-1.0	6.2	>-1.0	6.0	>-1.0	5.9	-2.3
04/10/86	1200	6.4	>-1.0	6.2	>-1.0	6.0	>-1.0	5.9	-2.4
04/11/86	0	6.4	>-1.0	6.3	>-1.0	6.2	>-1.0	6.1	-2.5
04/11/86	1200	6.5	>-1.0	6.2	>-1.0	6.2	>-1.0	6.1	-2.7
04/12/86	0	6.7	>-1.0	6.4	>-1.0	6.3	>-1.0	6.2	-2.8
04/12/86	1200	6.8	>-1.0	6.4	>-1.0	6.2	>-1.0	6.2	-2.8
04/13/86	0	7.0	>-1.0	6.7	>-1.0	6.5	>-1.0	6.4	-2.6
04/13/86	1200	6.8	-1.0	6.6	>-1.0	6.4	>-1.0	6.3	-2.7
04/14/86	0	6.9	>-1.0	6.8	>-1.0	6.6	>-1.0	6.5	-2.7
04/14/86	1200	6.8	>-1.0	6.7	>-1.0	6.6	>-1.0	6.6	-2.7
04/15/86	0	6.7	>-1.0	6.8	>-1.0	6.8	>-1.0	6.7	-2.6
04/15/86	1200	6.7	-1.0	6.7	>-1.0	6.6	>-1.0	6.7	-2.8
04/16/86	0	6.7	>-1.0	6.8	>-1.0	6.6	>-1.0	6.7	-3.1
04/16/86	1200	6.8	>-1.0	6.7	>-1.0	6.7	>-1.0	6.7	-3.0
04/17/86	0	6.7	>-1.0	6.7	>-1.0	6.5	>-1.0	6.6	-3.2
04/17/86	1200	6.9	>-1.0	6.8	>-1.0	6.7	>-1.0	6.8	-3.0
04/18/86	0	6.8	>-1.0	6.8	>-1.0	6.6	>-1.0	6.6	-2.9
04/18/86	1200	7.1	>-1.0	7.0	>-1.0	6.9	>-1.0	6.9	-2.8
04/19/86	0	7.0	>-1.0	7.0	>-1.0	6.9	>-1.0	6.9	-2.7
04/19/86	1200	7.0	>-1.0	7.0	>-1.0	6.8	>-1.0	6.9	-2.8

Table 3.--Temperature and soil-water potential for disturbed soil above the horizontal
culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#9 0.5		tcp#8 0.6		tcp#13 0.8		tcp#12 0.9	
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil-water potential (bars)
04/20/86	0	7.1	>-1.0	7.1	>-1.0	7.0	>-1.0	-2.9
04/20/86	1200	7.2	>-1.0	7.1	>-1.0	6.9	>-1.0	-2.8
04/21/86	0	7.4	>-1.0	7.3	>-1.0	7.2	>-1.0	-2.8
04/21/86	1200	7.5	>-1.0	7.2	>-1.0	6.8	>-1.0	-2.7
04/22/86	0	8.2	>-1.0	7.7	>-1.0	7.4	>-1.0	-2.6
04/22/86	1200	8.4	>-1.0	7.6	>-1.0	7.3	>-1.0	-2.4
04/23/86	0	8.6	>-1.0	8.0	>-1.0	7.5	>-1.0	-2.3
04/23/86	1200	8.9	>-1.0	8.2	>-1.0	7.8	>-1.0	-1.9
04/24/86	0	9.0	>-1.0	8.4	>-1.0	8.0	>-1.0	-1.8
04/24/86	1200	8.9	>-1.0	8.5	>-1.0	8.1	>-1.0	-1.4
04/25/86	0	8.9	>-1.0	8.6	>-1.0	8.2	>-1.0	-1.4
04/25/86	1200	8.7	>-1.0	8.5	>-1.0	8.2	>-1.0	-1.5
04/26/86	0	8.7	>-1.0	8.6	>-1.0	8.3	>-1.0	-1.8
04/26/86	1200	8.6	>-1.0	8.5	>-1.0	8.2	>-1.0	-1.7
04/27/86	0	8.5	>-1.0	8.5	>-1.0	8.3	>-1.0	-1.8
04/27/86	1200	8.4	>-1.0	8.4	>-1.0	8.2	>-1.0	-1.9
04/28/86	0	8.4	-1.0	8.4	>-1.0	8.3	>-1.0	-1.8
04/28/86	1200	8.4	-1.0	8.3	>-1.0	8.2	>-1.0	-2.3
04/29/86	0	8.5	>-1.0	8.4	>-1.0	8.2	>-1.0	-2.2
04/29/86	1200	8.6	>-1.0	8.4	>-1.0	8.2	>-1.0	-2.1
04/30/86	0	8.4	-1.0	8.3	>-1.0	8.1	>-1.0	-2.0
04/30/86	1200	8.7	-1.0	8.5	>-1.0	8.2	>-1.0	-2.0
05/01/86	0	8.4	>-1.0	8.4	>-1.0	8.2	>-1.0	-2.1
05/01/86	1200	8.6	-1.1	8.5	>-1.0	8.3	>-1.0	-2.1
05/02/86	0	8.7	-1.0	8.6	>-1.0	8.4	>-1.0	-1.9
05/02/86	1200	8.9	>-1.0	8.5	>-1.0	8.4	>-1.0	-2.0
05/03/86	0	9.5	>-1.0	9.0	>-1.0	8.8	>-1.0	-1.9
05/03/86	1200	9.6	>-1.0	8.9	>-1.0	8.5	>-1.0	-1.6
05/04/86	0	10.2	>-1.0	9.4	>-1.0	9.1	>-1.0	-1.2
05/04/86	1200	10.4	>-1.0	9.4	>-1.0	9.0	>-1.0	-1.1
05/05/86	0	10.2	>-1.0	9.5	>-1.0	8.9	>-1.0	-1.0
05/05/86	1200	10.2	>-1.0	9.7	>-1.0	9.2	>-1.0	-1.0
05/06/86	0	10.0	>-1.0	9.7	>-1.0	9.3	>-1.0	-1.0
05/06/86	1200	9.9	>-1.0	9.6	>-1.0	9.2	>-1.0	-1.0
05/07/86	0	9.8	>-1.0	9.5	>-1.0	9.2	>-1.0	-1.0
05/07/86	1200	9.5	>-1.0	9.4	>-1.0	9.2	>-1.0	-1.0

Table 3.--Temperature and soil-water potential for disturbed soil above the horizontal culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#9			tcp#8			tcp#13			tcp#12		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil-water potential (bars)
05/08/86	0	9.1	>-1.0	9.2	>-1.0	8.9	8.9	>-1.0	8.6	8.6	>-1.0	>-1.0
05/08/86	1200	9.3	>-1.0	9.2	>-1.0	9.2	8.9	>-1.0	8.9	8.9	>-1.0	>-1.0
05/09/86	0	8.8	>-1.0	8.9	>-1.0	6.7	6.7	>-1.0	8.5	8.5	>-1.0	-1.1
05/09/86	1200	8.7	-1.0	8.9	>-1.0	8.8	8.8	>-1.0	8.6	8.6	>-1.0	-1.0
05/10/86	0	8.6	-1.1	8.8	>-1.0	8.5	8.5	>-1.0	8.4	8.4	>-1.0	-1.3
05/10/86	1200	8.5	-1.0	8.6	>-1.0	8.6	8.5	>-1.0	8.4	8.4	>-1.0	-1.3
05/11/86	0	8.5	-1.0	8.6	>-1.0	8.5	8.5	>-1.0	8.3	8.3	>-1.0	-1.3
05/11/86	1200	8.4	>-1.0	8.5	>-1.0	8.4	8.3	>-1.0	8.2	8.2	>-1.0	-1.4
05/12/86	0	8.3	-1.0	8.3	>-1.0	8.3	8.3	>-1.0	8.2	8.2	>-1.0	-1.5
05/12/86	1200	8.2	-1.0	8.3	>-1.0	8.3	8.3	>-1.0	8.2	8.2	>-1.0	-1.3
05/13/86	0	8.4	>-1.0	8.2	>-1.0	8.2	8.2	>-1.0	8.1	8.1	>-1.0	-1.4
05/13/86	1200	8.4	>-1.0	8.3	>-1.0	8.2	8.2	>-1.0	8.0	8.0	>-1.0	-1.3
05/14/86	0	8.6	>-1.0	8.3	>-1.0	8.2	8.2	>-1.0	8.0	8.0	>-1.0	-1.4
05/14/86	1200	8.7	>-1.0	8.5	>-1.0	8.4	8.4	>-1.0	8.1	8.1	>-1.0	-1.2
05/15/86	0	8.6	-1.0	8.3	>-1.0	8.2	8.2	>-1.0	8.0	8.0	>-1.0	-1.2
05/15/86	1200	8.6	-1.0	8.4	>-1.0	8.3	8.3	>-1.0	8.1	8.1	>-1.0	-1.3
05/16/86	0	8.8	>-1.0	8.5	>-1.0	8.5	8.5	>-1.0	8.2	8.2	>-1.0	-1.2
05/16/86	1200	9.0	>-1.0	8.7	>-1.0	8.6	8.6	>-1.0	8.3	8.3	>-1.0	-1.0
05/17/86	0	9.1	>-1.0	8.6	>-1.0	8.6	8.6	>-1.0	8.3	8.3	>-1.0	-1.0
05/17/86	1200	9.2	>-1.0	8.8	>-1.0	8.6	8.6	>-1.0	8.2	8.2	>-1.0	>-1.0
05/18/86	0	9.4	>-1.0	8.8	>-1.0	8.6	8.6	>-1.0	8.2	8.2	>-1.0	>-1.0
05/18/86	1200	9.7	>-1.0	9.1	>-1.0	9.0	8.6	>-1.0	8.6	8.6	>-1.0	>-1.0
05/19/86	0	9.9	>-1.0	9.1	>-1.0	8.8	8.8	>-1.0	8.4	8.4	>-1.0	>-1.0
05/19/86	1200	10.3	>-1.0	9.4	>-1.0	9.2	9.2	>-1.0	8.7	8.7	>-1.0	>-1.0
05/20/86	0	10.5	>-1.0	9.5	>-1.0	9.1	9.1	>-1.0	8.5	8.5	>-1.0	>-1.0
05/20/86	1200	11.1	>-1.0	9.9	>-1.0	9.6	9.6	>-1.0	9.0	9.0	>-1.0	>-1.0
05/21/86	0	11.3	>-1.0	10.1	>-1.0	9.8	9.8	>-1.0	9.1	9.1	>-1.0	>-1.0
05/21/86	1200	11.5	>-1.0	10.3	>-1.0	10.1	10.1	>-1.0	9.4	9.4	>-1.0	>-1.0
05/22/86	0	11.5	>-1.0	10.5	>-1.0	10.1	10.1	>-1.0	9.5	9.5	>-1.0	>-1.0
05/22/86	1200	11.0	>-1.0	10.5	>-1.0	10.1	10.1	>-1.0	9.5	9.5	>-1.0	>-1.0
05/23/86	0	10.8	>-1.0	10.4	>-1.0	10.0	10.0	>-1.0	9.5	9.5	>-1.0	>-1.0
05/23/86	1200	10.4	>-1.0	10.2	>-1.0	10.0	10.0	>-1.0	9.4	9.4	>-1.0	>-1.0
05/24/86	0	10.7	>-1.0	10.3	>-1.0	9.8	9.8	>-1.0	9.4	9.4	>-1.0	>-1.0
05/24/86	1200	10.8	>-1.0	10.1	>-1.0	9.8	9.8	>-1.0	9.4	9.4	>-1.0	>-1.0
05/25/86	0	10.8	>-1.0	10.1	>-1.0	9.8	9.8	>-1.0	9.4	9.4	>-1.0	>-1.0
05/25/86	1200	10.8	>-1.0	10.1	>-1.0	9.8	9.8	>-1.0	9.4	9.4	>-1.0	>-1.0

Table 3.--Temperature and soil-water potential for disturbed soil above the horizontal culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#9 0.5			tcp#8 0.6			tcp#13 0.8			tcp#12 0.9		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
05/26/86	0	11.3	>-1.0	10.5	>-1.0	10.3		>-1.0	9.8	>-1.0		>-1.0
05/26/86	1200	11.4	>-1.0	10.4	>-1.0	10.0		>-1.0	9.4	>-1.0		>-1.0
05/27/86	0	12.0	>-1.0	10.9	>-1.0	10.6		>-1.0	10.0	>-1.0		>-1.0
05/27/86	1200	12.2	>-1.0	10.9	>-1.0	10.3		>-1.0	9.7	>-1.0		>-1.0
05/28/86	0	12.8	>-1.0	11.4	>-1.0	11.0		>-1.0	10.2	>-1.0		>-1.0
05/28/86	1200	13.0	>-1.0	11.4	>-1.0	10.8		>-1.0	10.0	>-1.0		>-1.0
05/29/86	0	13.6	>-1.0	12.0	>-1.0	11.5		>-1.0	10.6	>-1.0		>-1.0
05/29/86	1200	13.8	>-1.0	12.0	>-1.0	11.3		>-1.0	10.4	>-1.0		>-1.0
05/30/86	0	14.3	>-1.0	12.6	>-1.0	12.0		>-1.0	11.0	>-1.0		>-1.0
05/31/86	0	14.9	>-1.0	13.1	>-1.0	12.5		>-1.0	11.4	>-1.0		>-1.0
05/31/86	1200	14.9	>-1.0	13.1	>-1.0	12.3		>-1.0	11.2	>-1.0		>-1.0
06/01/86	0	15.3	>-1.0	13.6	>-1.0	12.9		>-1.0	11.7	>-1.0		>-1.0
06/01/86	1200	15.5	>-1.0	13.6	>-1.0	12.8		>-1.0	11.7	>-1.0		>-1.0
06/02/86	0	15.9	>-1.0	14.1	>-1.0	13.4		>-1.0	12.2	>-1.0		>-1.0
06/02/86	1200	15.9	>-1.0	14.0	>-1.0	13.1		>-1.0	12.0	>-1.0		>-1.0
06/03/86	0	16.3	>-1.0	14.5	>-1.0	13.6		>-1.0	12.6	>-1.0		>-1.0
06/03/86	1200	16.5	>-1.0	14.5	>-1.0	13.5		>-1.0	12.4	>-1.0		>-1.0
06/04/86	0	16.8	>-1.0	14.9	>-1.0	14.1		>-1.0	12.9	>-1.0		>-1.0
06/04/86	1200	16.4	>-1.0	14.9	>-1.0	14.0		>-1.0	12.9	>-1.0		>-1.0
06/05/86	0	16.8	>-1.0	15.2	>-1.0	14.4		>-1.0	13.3	>-1.0		>-1.0
06/05/86	1200	16.7	>-1.0	15.1	>-1.0	14.2		>-1.0	13.1	>-1.0		>-1.0
06/06/86	0	16.9	>-1.0	15.4	>-1.0	14.5		>-1.0	13.5	>-1.0		>-1.0
06/06/86	1200	16.6	>-1.0	15.3	>-1.0	14.6		>-1.0	13.4	>-1.0		>-1.0
06/07/86	0	16.6	>-1.0	15.5	>-1.0	14.8		>-1.0	13.8	>-1.0		>-1.0
06/07/86	1200	16.5	>-1.0	15.3	>-1.0	14.6		>-1.0	13.6	>-1.0		>-1.0
06/08/86	0	16.4	>-1.0	15.4	>-1.0	14.8		>-1.0	13.8	>-1.0		>-1.0
06/08/86	1200	16.1	>-1.0	15.3	>-1.0	14.6		>-1.0	13.8	>-1.0		>-1.0
06/09/86	0	15.8	>-1.0	15.1	>-1.0	14.7		>-1.0	13.8	>-1.0		>-1.0
06/09/86	1200	15.5	>-1.0	15.0	>-1.0	14.6		>-1.0	13.8	>-1.0		>-1.0
06/10/86	0	15.3	>-1.0	15.0	>-1.0	14.6		>-1.0	13.9	>-1.0		>-1.0
06/10/86	1200	15.1	>-1.0	14.7	>-1.0	14.2		>-1.0	13.5	>-1.0		>-1.0
06/11/86	0	15.2	>-1.0	14.7	>-1.0	14.4		>-1.0	13.7	>-1.0		>-1.0
06/11/86	1200	15.2	>-1.0	14.4	>-1.0	14.0		>-1.0	13.4	>-1.0		>-1.0
06/12/86	0	15.6	>-1.0	14.7	>-1.0	14.3		>-1.0	13.6	>-1.0		>-1.0
06/12/86	1200	15.7	>-1.0	14.6	>-1.0	13.9		>-1.0	13.3	>-1.0		>-1.0
06/13/86	0	16.1	>-1.0	14.9	>-1.0	14.3		>-1.0	13.6	>-1.0		>-1.0

Table 3.--Temperature and soil-water potential for disturbed soil above the horizontal
culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#9 0.5			tcp#8 0.6			tcp#13 0.8			tcp#12 0.9		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
06/13/86	1200	16.1	>-1.0	14.8	>-1.0	14.1	13.4	>-1.0	13.4	>-1.0	13.4	>-1.0
06/14/86	0	16.5	>-1.0	15.2	>-1.0	14.5	13.7	>-1.0	13.7	>-1.0	13.7	>-1.0
06/14/86	1200	16.5	>-1.0	15.2	>-1.0	14.4	13.6	>-1.0	13.6	>-1.0	13.6	>-1.0
06/15/86	0	16.7	>-1.0	15.5	>-1.0	14.7	13.9	>-1.0	13.9	>-1.0	13.9	>-1.0
06/15/86	1200	16.5	>-1.0	15.4	>-1.0	14.6	13.7	>-1.0	13.7	>-1.0	13.7	>-1.0
06/16/86	0	16.7	>-1.0	15.6	>-1.0	14.9	14.0	>-1.0	14.0	>-1.0	14.0	>-1.0
06/16/86	1200	16.5	>-1.0	15.4	>-1.0	14.6	13.8	>-1.0	13.8	>-1.0	13.8	>-1.0
06/17/86	0	16.8	>-1.0	15.7	>-1.0	14.9	14.1	>-1.0	14.1	>-1.0	14.1	>-1.0
06/17/86	1200	16.8	>-1.0	15.4	>-1.0	14.6	13.8	>-1.0	13.8	>-1.0	13.8	>-1.0
06/18/86	0	17.2	>-1.0	15.8	>-1.0	15.1	14.2	>-1.0	14.2	>-1.0	14.2	>-1.0
06/18/86	1200	17.3	>-1.0	15.6	>-1.0	14.6	13.8	>-1.0	13.8	>-1.0	13.8	>-1.0
06/19/86	0	17.6	>-1.0	16.1	>-1.0	15.3	14.4	>-1.0	14.4	>-1.0	14.4	>-1.0
06/19/86	1200	17.7	>-1.0	16.1	>-1.0	15.1	14.2	>-1.0	14.2	>-1.0	14.2	>-1.0
06/20/86	0	17.9	>-1.0	16.5	>-1.0	15.6	14.6	>-1.0	14.6	>-1.0	14.6	>-1.0
06/20/86	1200	17.9	>-1.0	16.4	>-1.0	15.3	14.4	>-1.0	14.4	>-1.0	14.4	>-1.0
06/21/86	0	18.0	>-1.0	16.6	>-1.0	15.8	14.8	>-1.0	14.8	>-1.0	14.8	>-1.0
06/21/86	1200	17.9	>-1.0	16.6	>-1.0	15.6	14.5	>-1.0	14.5	>-1.0	14.5	>-1.0
06/22/86	0	18.1	>-1.0	16.8	>-1.0	15.9	14.9	>-1.0	14.9	>-1.0	14.9	>-1.0
06/22/86	1200	18.0	>-1.0	16.6	>-1.0	15.7	14.8	>-1.0	14.8	>-1.0	14.8	>-1.0
06/23/86	0	18.2	>-1.0	16.9	>-1.0	16.1	15.1	>-1.0	15.1	>-1.0	15.1	>-1.0
06/23/86	1200	18.1	>-1.0	16.7	>-1.0	15.8	14.8	>-1.0	14.8	>-1.0	14.8	>-1.0
06/24/86	0	18.4	>-1.0	17.1	>-1.0	16.3	15.2	>-1.0	15.2	>-1.0	15.2	>-1.0
06/24/86	1200	18.3	>-1.0	16.9	>-1.0	15.9	15.0	>-1.0	15.0	>-1.0	15.0	>-1.0
06/25/86	0	18.7	>-1.0	17.2	>-1.0	16.4	15.3	>-1.0	15.3	>-1.0	15.3	>-1.0
06/25/86	1200	18.6	>-1.0	17.1	>-1.0	16.2	15.1	>-1.0	15.1	>-1.0	15.1	>-1.0
06/26/86	0	18.8	>-1.0	17.5	>-1.0	16.6	15.5	>-1.0	15.5	>-1.0	15.5	>-1.0
06/26/86	1200	18.6	>-1.0	17.3	>-1.0	16.1	15.1	>-1.0	15.1	>-1.0	15.1	>-1.0
06/27/86	0	18.8	>-1.0	17.6	>-1.0	16.7	15.7	>-1.0	15.7	>-1.0	15.7	>-1.0
06/27/86	1200	18.7	>-1.0	17.4	>-1.0	16.5	15.4	>-1.0	15.4	>-1.0	15.4	>-1.0
06/28/86	0	19.0	>-1.0	17.7	>-1.0	16.9	15.8	>-1.0	15.8	>-1.0	15.8	>-1.0
06/28/86	1200	18.9	>-1.0	17.5	>-1.0	16.6	15.5	>-1.0	15.5	>-1.0	15.5	>-1.0
06/29/86	0	19.1	>-1.0	17.8	>-1.0	17.0	16.0	>-1.0	16.0	>-1.0	16.0	>-1.0
06/29/86	1200	19.1	>-1.0	17.7	>-1.0	16.7	15.7	>-1.0	15.7	>-1.0	15.7	>-1.0
06/30/86	0	19.4	>-1.0	18.0	>-1.0	17.1	16.1	>-1.0	16.1	>-1.0	16.1	>-1.0
06/30/86	1200	19.3	>-1.0	17.8	>-1.0	16.8	15.9	>-1.0	15.9	>-1.0	15.9	>-1.0
07/01/86	0	19.4	>-1.0	18.1	>-1.0	17.2	16.2	>-1.0	16.2	>-1.0	16.2	>-1.0

Table 3.--Temperature and soil-water potential for disturbed soil above the horizontal
culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#9 0.5			tcp#8 0.6			tcp#13 0.8			tcp#12 0.9		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil-water potential (bars)
07/01/86	1200	19.3	>-1.0	17.9	>-1.0	16.9	16.9	>-1.0	16.0	16.0	>-1.0	--
07/02/86	0	19.5	>-1.0	18.2	>-1.0	17.4	17.4	>-1.0	16.4	16.4	>-1.0	--
07/02/86	1200	19.3	>-1.0	17.9	>-1.0	17.0	17.0	>-1.0	16.1	16.1	>-1.0	--
07/03/86	0	19.6	>-1.0	18.3	>-1.0	17.4	17.4	>-1.0	16.5	16.5	>-1.0	--
07/03/86	1200	19.7	>-1.0	18.2	>-1.0	17.3	17.3	>-1.0	16.2	16.2	>-1.0	--
07/04/86	0	19.9	>-1.0	18.5	>-1.0	17.7	17.7	>-1.0	16.5	16.5	>-1.0	--
07/04/86	1200	19.8	>-1.0	18.4	>-1.0	17.5	17.5	>-1.0	16.4	16.4	>-1.0	--
07/05/86	0	19.9	>-1.0	18.6	>-1.0	17.8	17.8	>-1.0	16.8	16.8	>-1.0	--
07/05/86	1200	19.7	>-1.0	18.5	>-1.0	17.7	17.7	--	16.6	16.6	--	--
07/06/86	0	19.5	>-1.0	18.6	>-1.0	17.9	17.9	--	16.9	16.9	--	--
07/06/86	1200	19.2	>-1.0	18.3	>-1.0	17.5	17.5	--	16.7	16.7	--	--
07/07/86	0	19.1	>-1.0	18.4	>-1.0	17.8	17.8	--	17.0	17.0	--	--
07/07/86	1200	19.1	>-1.0	18.3	>-1.0	17.6	17.6	--	16.9	16.9	--	--
07/08/86	0	19.2	>-1.0	18.4	>-1.0	17.8	17.8	--	17.1	17.1	--	--
07/08/86	1200	19.0	>-1.0	18.2	>-1.0	17.5	17.5	--	16.8	16.8	--	--
07/09/86	0	19.2	>-1.0	18.4	>-1.0	17.8	17.8	--	17.1	17.1	--	--
07/09/86	1200	19.2	>-1.0	18.2	>-1.0	17.5	17.5	--	16.9	16.9	--	--
07/10/86	0	19.2	>-1.0	18.4	>-1.0	17.9	17.9	--	17.2	17.2	--	--
07/10/86	1200	19.1	>-1.0	18.3	>-1.0	17.5	17.5	--	17.0	17.0	--	--
07/11/86	0	19.2	>-1.0	18.5	>-1.0	17.8	17.8	--	17.3	17.3	--	--
07/11/86	1200	19.1	>-1.0	18.3	>-1.0	17.5	17.5	--	17.0	17.0	--	--
07/12/86	0	19.3	>-1.0	18.5	>-1.0	17.9	17.9	--	17.3	17.3	--	--
07/12/86	1200	19.1	>-1.0	18.3	>-1.0	17.6	17.6	--	17.0	17.0	--	--
07/13/86	0	19.3	>-1.0	18.5	>-1.0	17.9	17.9	--	17.4	17.4	--	--
07/13/86	1200	19.2	>-1.0	18.3	>-1.0	17.6	17.6	--	17.0	17.0	--	--
07/14/86	0	19.4	>-1.0	18.6	>-1.0	18.0	18.0	--	17.4	17.4	--	--
07/14/86	1200	19.4	>-1.0	18.4	>-1.0	17.6	17.6	--	17.1	17.1	--	--
07/15/86	0	19.8	>-1.0	18.8	>-1.0	18.1	18.1	--	17.5	17.5	--	--
07/15/86	1200	19.8	>-1.0	18.6	>-1.0	17.8	17.8	--	17.2	17.2	--	--
07/16/86	0	20.0	>-1.0	19.0	>-1.0	18.2	18.2	--	17.5	17.5	--	--
07/16/86	1200	20.1	>-1.0	18.9	>-1.0	18.0	18.0	--	17.4	17.4	--	--
07/17/86	0	20.3	>-1.0	19.2	>-1.0	18.4	18.4	--	17.8	17.8	--	--
07/17/86	1200	20.1	>-1.0	19.0	>-1.0	18.2	18.2	--	17.6	17.6	--	--
07/18/86	0	20.2	>-1.0	19.3	>-1.0	18.5	18.5	--	17.9	17.9	--	--
07/18/86	1200	20.1	>-1.0	19.2	>-1.0	18.4	18.4	--	17.8	17.8	--	--
07/19/86	0	20.2	>-1.0	19.4	>-1.0	18.7	18.7	--	18.1	18.1	--	--

Table 3.--Temperature and soil-water potential for disturbed soil above the horizontal culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#9		tcp#8		tcp#13		tcp#12	
	0.5		0.6		0.8		0.9	
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)
07/19/86	1200	19.9	>-1.0	18.9	>-1.0	18.1	--	17.6
07/20/86	0	20.5	>-1.0	19.5	>-1.0	18.8	--	18.2
07/20/86	1200	20.2	>-1.0	19.1	>-1.0	18.2	--	17.6
07/21/86	0	20.8	>-1.0	19.7	>-1.0	18.9	--	18.3
07/21/86	1200	20.7	>-1.0	19.5	>-1.0	18.6	--	17.9
07/22/86	0	21.0	>-1.0	19.8	>-1.0	19.1	--	18.3
07/22/86	1200	21.0	>-1.0	19.7	>-1.0	18.7	--	18.0
07/23/86	0	21.3	>-1.0	20.0	>-1.0	19.1	--	18.3
07/23/86	1200	21.0	>-1.0	19.9	>-1.0	18.8	--	18.0
07/24/86	0	21.0	>-1.0	20.1	>-1.0	19.2	--	18.4
07/24/86	1200	20.6	>-1.0	19.8	>-1.0	18.9	--	18.2
07/25/86	0	20.5	>-1.0	19.9	>-1.0	19.2	--	18.4
07/25/86	1200	20.2	>-1.0	19.5	>-1.0	18.8	--	18.1
07/26/86	0	20.3	>-1.0	19.6	>-1.0	19.0	--	18.3
07/26/86	1200	20.1	>-1.0	19.3	>-1.0	18.6	--	17.9
07/27/86	0	20.2	>-1.0	19.5	>-1.0	18.9	--	18.1
07/27/86	1200	20.1	>-1.0	19.3	>-1.0	18.6	--	17.9
07/28/86	0	20.1	>-1.0	19.4	>-1.0	18.8	--	18.1
07/28/86	1200	19.8	>-1.0	19.1	>-1.0	18.4	--	17.8
07/29/86	0	19.8	>-1.0	19.2	>-1.0	18.7	--	18.0
07/29/86	1200	19.5	>-1.0	18.8	>-1.0	18.0	--	17.5
07/30/86	0	19.9	>-1.0	19.1	>-1.0	18.6	--	17.9
07/30/86	1200	19.8	>-1.0	19.0	>-1.0	18.3	--	17.7
07/31/86	0	19.9	>-1.0	19.1	>-1.0	18.5	--	17.9
07/31/86	1200	19.7	>-1.0	18.8	>-1.0	18.1	--	17.5
08/01/86	0	20.1	>-1.0	19.2	>-1.0	18.6	--	18.0
08/01/86	1200	19.9	>-1.0	18.9	>-1.0	18.1	--	17.5
08/02/86	0	20.3	>-1.0	19.3	>-1.0	18.7	--	18.0
08/02/86	1200	20.2	>-1.0	19.0	>-1.0	18.3	--	17.5
08/03/86	0	20.5	>-1.0	19.4	>-1.0	18.8	--	17.9
08/03/86	1200	20.5	>-1.0	19.2	>-1.0	18.4	--	17.6
08/04/86	0	20.9	>-1.0	19.6	>-1.0	18.9	--	18.0
08/04/86	1200	20.8	>-1.0	19.4	>-1.0	18.6	--	17.7
08/05/86	0	21.2	>-1.0	19.9	>-1.0	19.2	--	18.2
08/05/86	1200	20.8	>-1.0	19.5	>-1.0	18.6	--	17.7
08/06/86	0	21.3	>-1.0	20.0	>-1.0	19.4	--	18.3

Table 3.--Temperature and soil-water potential for disturbed soil above the horizontal
culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)		tcp#9 0.5			tcp#8 0.6			tcp#13 0.8			tcp#12 0.9		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
08/06/86	1200	21.1	>-1.0	19.8	>-1.0	18.9	>-1.0	18.0	--	18.0	--	--	--
08/07/86	0	21.3	>-1.0	20.1	>-1.0	19.5	>-1.0	18.4	--	18.4	--	--	--
08/07/86	1200	21.2	>-1.0	19.9	>-1.0	19.1	>-1.0	18.1	--	18.1	--	--	--
08/08/86	0	21.4	>-1.0	20.1	>-1.0	19.5	>-1.0	18.5	--	18.5	--	--	--
08/08/86	1200	21.3	>-1.0	20.0	>-1.0	19.2	>-1.0	18.3	--	18.3	--	--	--
08/09/86	0	21.5	>-1.0	20.3	>-1.0	19.7	>-1.0	18.7	--	18.7	--	--	--
08/09/86	1200	21.3	>-1.0	20.1	>-1.0	19.3	>-1.0	18.3	--	18.3	--	--	--
08/10/86	0	21.5	>-1.0	20.3	>-1.0	19.8	>-1.0	18.8	--	18.8	--	--	--
08/10/86	1200	21.3	>-1.0	20.1	>-1.0	19.4	>-1.0	18.4	--	18.4	--	--	--
08/11/86	0	21.5	>-1.0	20.4	>-1.0	19.8	>-1.0	18.8	--	18.8	--	--	--
08/11/86	1200	21.4	>-1.0	20.2	>-1.0	19.5	>-1.0	18.5	--	18.5	--	--	--
08/12/86	0	21.5	>-1.0	20.4	>-1.0	19.8	>-1.0	18.9	--	18.9	--	--	--
08/12/86	1200	21.4	>-1.0	20.2	>-1.0	19.5	>-1.0	18.5	--	18.5	--	--	--
08/13/86	0	21.6	>-1.0	20.4	>-1.0	19.9	>-1.0	18.9	--	18.9	--	--	--
08/13/86	1200	21.3	>-1.0	20.2	>-1.0	19.6	>-1.0	18.6	--	18.6	--	--	--
08/14/86	0	21.5	>-1.0	20.5	>-1.0	20.0	>-1.0	19.1	--	19.1	--	--	--
08/14/86	1200	21.2	>-1.0	20.2	>-1.0	19.5	>-1.0	18.6	--	18.6	--	--	--
08/15/86	0	21.4	>-1.0	20.4	>-1.0	19.9	>-1.0	19.0	--	19.0	--	--	--
08/15/86	1200	21.2	>-1.0	20.1	>-1.0	19.5	>-1.0	18.6	--	18.6	--	--	--
08/16/86	0	21.5	>-1.0	20.4	>-1.0	20.0	>-1.0	19.0	--	19.0	--	--	--
08/16/86	1200	21.2	>-1.0	20.1	>-1.0	19.5	>-1.0	18.7	--	18.7	--	--	--
08/17/86	0	21.5	>-1.0	20.4	>-1.0	20.0	>-1.0	19.0	--	19.0	--	--	--
08/17/86	1200	21.3	>-1.0	20.2	>-1.0	19.5	>-1.0	18.7	--	18.7	--	--	--
08/18/86	0	21.5	>-1.0	20.5	>-1.0	20.0	>-1.0	19.1	--	19.1	--	--	--
08/18/86	1200	21.3	>-1.0	20.2	>-1.0	19.5	>-1.0	18.7	--	18.7	--	--	--
08/19/86	0	21.7	>-1.0	20.6	>-1.0	20.1	>-1.0	19.1	--	19.1	--	--	--
08/19/86	1200	21.6	>-1.0	20.4	>-1.0	19.8	>-1.0	18.9	--	18.9	--	--	--
08/20/86	0	21.8	>-1.0	20.6	>-1.0	20.1	>-1.0	19.1	--	19.1	--	--	--
08/20/86	1200	21.4	>-1.0	20.4	>-1.0	19.8	>-1.0	18.9	--	18.9	--	--	--
08/21/86	0	21.2	>-1.0	20.3	>-1.0	20.1	>-1.0	19.2	--	19.2	--	--	--
08/21/86	1200	21.4	>-1.0	20.5	>-1.0	19.8	>-1.0	19.0	--	19.0	--	--	--
08/22/86	0	21.4	>-1.0	20.5	>-1.0	20.0	>-1.0	19.2	--	19.2	--	--	--
08/22/86	1200	21.3	>-1.0	20.3	>-1.0	19.7	>-1.0	18.9	--	18.9	--	--	--
08/23/86	0	21.3	>-1.0	20.4	>-1.0	20.1	>-1.0	19.2	--	19.2	--	--	--
08/23/86	1200	21.2	>-1.0	20.3	>-1.0	19.8	>-1.0	19.0	--	19.0	--	--	--
08/24/86	0	21.2	>-1.0	20.4	>-1.0	20.0	>-1.0	19.2	--	19.2	--	--	--

Table 3.--Temperature and soil-water potential for disturbed soil above the horizontal culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	Date	Hour	tcp#9 0.5			tcp#8 0.6			tcp#13 0.8			tcp#12 0.9		
			Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
08/24/86	1200		20.9	-1.9	20.1	--	19.5	--	18.8	--	18.8	--	--	--
08/25/86	0		20.8	-5.6	20.2	--	19.8	--	19.0	--	19.0	--	--	--
08/25/86	1200		20.7	-4.2	19.9	--	19.4	--	18.8	--	18.8	--	--	--
08/26/86	0		20.9	-4.5	20.1	--	19.7	--	19.0	--	19.0	--	--	--
08/26/86	1200		20.7	-4.1	19.8	--	19.3	--	18.6	--	18.6	--	--	--
08/27/86	0		20.9	-4.7	20.1	--	19.7	--	19.0	--	19.0	--	--	--
08/27/86	1200		20.6	-4.3	19.8	--	19.2	--	18.6	--	18.6	--	--	--
08/28/86	0		20.8	-5.0	20.0	--	19.7	--	19.0	--	19.0	--	--	--
08/28/86	1200		20.6	-3.9	19.7	--	19.2	--	18.5	--	18.5	--	--	--
08/29/86	0		20.9	-4.4	20.0	--	19.6	--	18.9	--	18.9	--	--	--
08/29/86	1200		20.9	-2.9	19.9	--	19.4	--	18.7	--	18.7	--	--	--
08/30/86	0		21.0	-3.1	20.0	--	19.6	--	18.9	--	18.9	--	--	--
08/30/86	1200		21.1	-3.3	20.1	--	19.5	--	18.8	--	18.8	--	--	--
08/31/86	0		20.9	-5.0	20.1	--	19.7	--	18.9	--	18.9	--	--	--
08/31/86	1200		20.5	-6.1	19.9	--	19.4	--	18.7	--	18.7	--	--	--
09/01/86	0		20.2	-7.6	19.8	--	19.5	--	18.9	--	18.9	--	--	--
09/01/86	1200		19.7	-8.0	19.4	--	19.1	--	18.6	--	18.6	--	--	--
09/02/86	0		19.7	-8.9	19.5	--	19.3	--	18.8	--	18.8	--	--	--
09/02/86	1200		19.5	-7.8	19.2	--	18.9	--	18.4	--	18.4	--	--	--
09/03/86	0		19.6	-7.9	19.2	--	19.1	--	18.6	--	18.6	--	--	--
09/03/86	1200		19.3	-7.4	18.9	--	18.7	--	18.2	--	18.2	--	--	--
09/04/86	0		19.5	-8.1	19.1	--	19.0	--	18.5	--	18.5	--	--	--
09/04/86	1200		19.2	-7.0	18.7	--	18.5	--	18.0	--	18.0	--	--	--
09/05/86	0		19.4	-7.8	18.9	--	18.8	--	18.4	--	18.4	--	--	--
09/05/86	1200		19.1	-7.1	18.6	--	18.3	--	17.9	--	17.9	--	--	--
09/06/86	0		19.3	-7.5	18.9	--	18.7	--	18.2	--	18.2	--	--	--
09/06/86	1200		19.2	-6.6	18.6	--	18.4	--	18.0	--	18.0	--	--	--
09/07/86	0		19.3	-7.4	18.8	--	18.7	--	18.2	--	18.2	--	--	--
09/07/86	1200		19.2	-6.6	18.6	--	18.3	--	17.9	--	17.9	--	--	--
09/08/86	0		19.3	-7.8	18.8	--	18.6	--	18.1	--	18.1	--	--	--
09/08/86	1200		18.9	-7.8	18.5	--	18.2	--	17.7	--	17.7	--	--	--
09/09/86	0		19.0	-8.6	18.6	--	18.4	--	18.0	--	18.0	--	--	--
09/09/86	1200		18.8	-8.6	18.4	--	18.2	--	17.8	--	17.8	--	--	--
09/10/86	0		18.5	-10.2	18.3	--	18.1	--	17.6	--	17.6	--	--	--
09/10/86	1200		18.3	-11.0	18.2	--	18.0	--	17.6	--	17.6	--	--	--
09/11/86	0		18.1	-12.4	18.1	--	18.1	--	17.7	--	17.7	--	--	--

Table 3.--Temperature and soil-water potential for disturbed soil above the horizontal
culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#9 0.5				tcp#8 0.6				tcp#13 0.8				tcp#12 0.9			
	Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
09/11/86	1200		17.6	-11.8	17.7	--	17.7	--	17.7	--	17.4	--	17.4	--	--	--
09/12/86	0		17.6	-12.8	17.8	--	17.8	--	17.8	--	17.5	--	17.5	--	--	--
09/12/86	1200		17.3	-11.6	17.4	--	17.4	--	17.4	--	17.2	--	17.2	--	--	--
09/13/86	0		17.2	-12.2	17.4	--	17.4	--	17.5	--	17.3	--	17.3	--	--	--
09/13/86	1200		17.0	-10.6	17.0	--	17.0	--	17.1	--	16.9	--	16.9	--	--	--
09/14/86	0		17.2	-10.6	17.2	--	17.2	--	17.3	--	17.1	--	17.1	--	--	--
09/14/86	1200		17.1	-9.0	17.0	--	17.0	--	17.0	--	16.8	--	16.8	--	--	--
09/15/86	0		17.1	-9.9	17.0	--	17.0	--	17.0	--	16.8	--	16.8	--	--	--
09/15/86	1200		16.9	-10.3	16.9	--	16.9	--	16.9	--	16.7	--	16.7	--	--	--
09/16/86	0		16.7	-11.2	16.8	--	16.8	--	16.8	--	16.6	--	16.6	--	--	--
09/16/86	1200		16.6	-10.3	16.6	--	16.6	--	16.7	--	16.5	--	16.5	--	--	--
09/17/86	0		16.5	-11.5	16.7	--	16.7	--	16.8	--	16.6	--	16.6	--	--	--
09/17/86	1200		16.2	-10.9	16.4	--	16.4	--	16.5	--	16.4	--	16.4	--	--	--
09/18/86	0		15.9	-11.8	16.3	--	16.3	--	16.4	--	16.3	--	16.3	--	--	--
09/18/86	1200		15.7	-11.0	16.0	--	16.0	--	16.2	--	16.1	--	16.1	--	--	--
09/19/86	0		15.6	-11.7	16.0	--	16.0	--	16.2	--	16.1	--	16.1	--	--	--
09/19/86	1200		15.3	-10.8	15.7	--	15.7	--	15.9	--	15.9	--	15.9	--	--	--
09/20/86	0		15.1	-12.2	15.6	--	15.6	--	15.8	--	15.8	--	15.8	--	--	--
09/20/86	1200		14.8	-12.4	15.4	--	15.4	--	15.7	--	15.7	--	15.7	--	--	--
09/21/86	0		14.5	-13.1	15.2	--	15.2	--	15.6	--	15.6	--	15.6	--	--	--
09/21/86	1200		14.1	-12.6	14.9	--	14.9	--	15.3	--	15.4	--	15.4	--	--	--
09/22/86	0		13.8	-13.2	14.7	--	14.7	--	15.1	--	15.3	--	15.3	--	--	--
09/22/86	1200		13.6	-10.8	14.3	--	14.3	--	14.8	--	15.0	--	15.0	--	--	--
09/23/86	0		13.6	-10.8	14.3	--	14.3	--	14.8	--	15.0	--	15.0	--	--	--
09/23/86	1200		13.4	-8.8	14.0	--	14.0	--	14.4	--	14.7	--	14.7	--	--	--
09/24/86	0		13.5	-9.1	14.1	--	14.1	--	14.5	--	14.9	--	14.9	--	--	--
09/24/86	1200		13.4	-7.6	13.9	--	13.9	--	14.2	--	14.5	--	14.5	--	--	--
09/25/86	0		13.4	-7.4	13.8	--	13.8	--	14.2	--	14.3	--	14.3	--	--	--
09/25/86	1200		13.4	-7.1	13.8	--	13.8	--	14.1	--	14.3	--	14.3	--	--	--
09/26/86	0		13.4	-7.9	13.8	--	13.8	--	14.1	--	14.2	--	14.2	--	--	--
09/26/86	1200		13.2	-7.8	13.6	--	13.6	--	14.0	--	14.1	--	14.1	--	--	--
09/27/86	0		12.8	-8.8	13.4	--	13.4	--	13.6	--	13.8	--	13.8	--	--	--
09/27/86	1200		12.7	-8.5	13.3	--	13.3	--	13.7	--	13.9	--	13.9	--	--	--
09/28/86	0		12.5	-8.8	13.2	--	13.2	--	13.6	--	13.8	--	13.8	--	--	--
09/28/86	1200		12.2	-8.4	12.9	--	12.9	--	13.4	--	13.6	--	13.6	--	--	--
09/29/86	0		11.9	-8.7	12.7	--	12.7	--	13.1	--	13.3	--	13.3	--	--	--

Table 3.--Temperature and soil-water potential for disturbed soil above the horizontal culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	Date	Hour	tcp#9 0.5			tcp#8 0.6			tcp#13 0.8			tcp#12 0.9		
			Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)
09/29/86	09/29/86	1200	11.8	-7.9	12.6	12.5	--	13.0	13.3	--	13.3	13.3	--	--
09/30/86	09/30/86	0	11.7	-8.1	12.5	12.5	--	13.0	13.3	--	13.3	13.3	--	--
09/30/86	09/30/86	1200	11.5	-7.2	12.2	12.2	--	12.6	12.9	--	12.9	12.9	--	--
10/01/86	10/01/86	0	11.5	-6.9	12.2	12.2	--	12.7	13.0	--	13.0	13.0	--	--
10/01/86	10/01/86	1200	11.4	-6.5	12.1	12.1	--	12.6	12.9	--	12.9	12.9	--	--
10/02/86	10/02/86	0	11.4	-6.6	12.0	12.0	--	12.5	12.8	--	12.8	12.8	--	--
10/02/86	10/02/86	1200	11.4	-6.2	11.9	11.9	--	12.4	12.7	--	12.7	12.7	--	--
10/03/86	10/03/86	0	11.2	-6.6	11.9	11.9	--	12.4	12.7	--	12.7	12.7	--	--
10/03/86	10/03/86	1200	11.0	-6.4	11.7	11.7	--	12.2	12.5	--	12.5	12.5	--	--
10/04/86	10/04/86	0	10.8	-6.7	11.5	11.5	--	12.0	12.3	--	12.3	12.3	--	--
10/04/86	10/04/86	1200	10.9	-5.6	11.5	11.5	--	11.9	12.3	--	12.3	12.3	--	--
10/05/86	10/05/86	0	10.8	-5.8	11.4	11.4	--	12.0	12.3	--	12.3	12.3	--	--
10/05/86	10/05/86	1200	10.9	-4.7	11.3	11.3	--	11.8	12.2	--	12.2	12.2	--	--
10/06/86	10/06/86	0	11.1	-4.5	11.5	11.5	--	11.9	12.2	--	12.2	12.2	--	--
10/06/86	10/06/86	1200	11.1	-3.7	11.3	11.3	--	11.8	12.0	--	12.0	12.0	--	--
10/07/86	10/07/86	0	11.3	-4.2	11.5	11.5	>-1.0	11.9	12.1	--	12.1	12.1	--	--
10/07/86	10/07/86	1200	11.3	-3.3	11.3	11.3	>-1.0	11.7	12.0	--	12.0	12.0	--	--
10/08/86	10/08/86	0	11.5	-3.9	11.7	11.7	>-1.0	12.0	12.2	--	12.2	12.2	--	--
10/08/86	10/08/86	1200	11.5	-3.5	11.5	11.5	>-1.0	11.8	12.0	--	12.0	12.0	--	--
10/09/86	10/09/86	0	11.7	-3.9	11.8	11.8	>-1.0	12.0	12.2	--	12.2	12.2	--	--
10/09/86	10/09/86	1200	11.6	-3.3	11.6	11.6	>-1.0	11.8	12.0	--	12.0	12.0	--	--
10/10/86	10/10/86	0	11.7	-4.2	11.8	11.8	>-1.0	12.0	12.1	--	12.1	12.1	--	--
10/10/86	10/10/86	1200	11.7	-3.8	11.7	11.7	>-1.0	11.9	12.0	--	12.0	12.0	--	--
10/11/86	10/11/86	0	11.7	-4.2	11.8	11.8	>-1.0	12.0	12.1	--	12.1	12.1	--	--
10/11/86	10/11/86	1200	11.5	-4.9	11.8	11.8	>-1.0	11.9	12.1	--	12.1	12.1	--	--
10/12/86	10/12/86	0	11.0	-6.0	11.5	11.5	>-1.0	11.7	11.8	--	11.8	11.8	--	--
10/12/86	10/12/86	1200	10.6	-6.1	11.2	11.2	>-1.0	11.5	11.7	--	11.7	11.7	--	--
10/13/86	10/13/86	0	10.4	-7.2	11.3	11.3	>-1.0	11.6	11.8	--	11.8	11.8	--	--
10/13/86	10/13/86	1200	10.1	-6.7	10.8	10.8	>-1.0	11.3	11.7	--	11.7	11.7	--	--
10/14/86	10/14/86	0	10.0	-6.8	10.8	10.8	>-1.0	11.2	11.6	--	11.6	11.6	--	--
10/14/86	10/14/86	1200	9.9	-6.1	10.6	10.6	>-1.0	11.0	11.4	--	11.4	11.4	--	--
10/15/86	10/15/86	0	9.8	-6.4	10.5	10.5	>-1.0	11.0	11.4	--	11.4	11.4	--	--
10/15/86	10/15/86	1200	9.6	-5.8	10.3	10.3	>-1.0	10.8	11.3	--	11.3	11.3	--	--
10/16/86	10/16/86	0	9.7	-6.0	10.4	10.4	>-1.0	10.8	11.3	--	11.3	11.3	--	--
10/16/86	10/16/86	1200	9.6	-5.4	10.1	10.1	>-1.0	10.6	11.0	--	11.0	11.0	--	--
10/17/86	10/17/86	0	9.6	-5.8	10.2	10.2	>-1.0	10.7	11.1	--	11.1	11.1	--	--

Table 3.--Temperature and soil-water potential for disturbed soil above the horizontal
culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	Date	Hour	tcp#9 0.5			tcp#8 0.6			tcp#13 0.8			tcp#12 0.9		
			Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
10/17/86	1200		9.4	-5.1	10.0	-1.1	10.4	--	10.8	--	10.8	--	--	--
10/18/86	0		9.5	-5.6	10.1	>-1.0	10.5	--	10.9	--	10.9	--	--	--
10/18/86	1200		9.6	-4.8	10.0	>-1.0	10.4	--	10.8	--	10.8	--	--	--
10/19/86	0		9.6	-5.0	10.0	-1.0	10.4	--	10.8	--	10.8	--	--	--
10/19/86	1200		9.6	-4.6	10.0	-1.0	10.3	--	10.7	--	10.7	--	--	--
10/20/86	0		9.6	-5.1	10.0	>-1.0	10.3	--	10.7	--	10.7	--	--	--
10/20/86	1200		9.5	-4.7	9.9	-1.0	10.2	--	10.6	--	10.6	--	--	--
10/21/86	0		9.6	-4.6	9.9	-1.2	10.2	--	10.6	--	10.6	--	--	--
10/21/86	1200		9.6	-4.3	9.8	-1.1	10.1	--	10.5	--	10.5	--	--	--
10/22/86	0		9.8	-4.2	10.0	-1.1	10.3	--	10.6	--	10.6	--	--	--
10/22/86	1200		9.8	-4.1	10.0	-1.1	10.2	--	10.5	--	10.5	--	--	--
10/23/86	0		9.8	-4.7	10.1	-1.0	10.3	--	10.6	--	10.6	--	--	--
10/23/86	1200		9.7	-4.5	10.0	-1.0	10.2	--	10.5	--	10.5	--	--	--
10/24/86	0		9.7	-5.0	10.1	>-1.0	10.3	--	10.6	--	10.6	--	--	--
10/25/86	0		9.5	-5.1	9.9	>-1.0	10.2	--	10.5	--	10.5	--	--	--
10/25/86	1200		9.5	-4.7	9.9	-1.0	10.1	--	10.4	--	10.4	--	--	--
10/26/86	0		9.5	-5.1	9.9	>-1.0	10.2	--	10.5	--	10.5	--	--	--
10/26/86	1200		9.5	-4.8	9.8	>-1.0	10.0	--	10.4	--	10.4	--	--	--
10/27/86	0		9.4	-5.0	9.8	-1.0	10.1	--	10.4	--	10.4	--	--	--
10/27/86	1200		9.4	-4.8	9.7	>-1.0	10.0	--	10.3	--	10.3	--	--	--
10/28/86	0		9.3	-5.1	9.7	>-1.0	10.0	--	10.4	--	10.4	--	--	--
10/28/86	1200		9.3	-4.9	9.6	>-1.0	9.9	--	10.2	--	10.2	--	--	--
10/29/86	0		9.1	-5.4	9.6	>-1.0	9.8	--	10.1	--	10.1	--	--	--
10/29/86	1200		9.1	-5.2	9.5	>-1.0	9.8	--	10.2	--	10.2	--	--	--
10/30/86	0		8.9	-5.5	9.5	>-1.0	9.8	--	10.2	--	10.2	--	--	--
10/30/86	1200		8.8	-5.4	9.3	>-1.0	9.6	--	10.0	--	10.0	--	--	--
10/31/86	0		8.8	-5.4	9.3	>-1.0	9.7	--	10.0	--	10.0	--	--	--
10/31/86	1200		8.8	-5.4	9.3	>-1.0	9.6	--	10.0	--	10.0	--	--	--
11/01/86	0		8.4	-5.8	9.1	>-1.0	9.4	--	9.8	--	9.8	--	--	--
11/01/86	1200		8.4	-5.8	9.0	>-1.0	9.5	--	9.9	--	9.9	--	--	--
11/02/86	0		8.1	-6.3	8.9	>-1.0	9.2	--	9.6	--	9.6	--	--	--
11/02/86	1200		7.9	-6.1	8.8	>-1.0	9.2	--	9.7	--	9.7	--	--	--
11/03/86	0		7.8	-6.6	8.7	>-1.0	9.1	--	9.6	--	9.6	--	--	--
11/03/86	1200		7.6	-6.5	8.5	>-1.0	9.0	--	9.5	--	9.5	--	--	--
11/04/86	0		7.3	-6.4	8.3	>-1.0	8.9	--	9.5	--	9.5	--	--	--
11/04/86	1200		7.3	-5.9	8.2	>-1.0	8.7	--	9.3	--	9.3	--	--	--

Table 3.--Temperature and soil-water potential for disturbed soil above the horizontal
culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	Date	Hour	tcp#9 0.5			tcp#8 0.6			tcp#13 0.8			tcp#12 0.9		
			Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
11/05/86	0		7.2	-6.2	8.1	>-1.0	8.4	--	9.0	--	9.0	--	9.0	--
11/05/86	1200		7.1	-5.9	7.9	>-1.0	8.5	--	9.1	--	9.1	--	9.1	--
11/06/86	0		7.0	-6.0	7.8	>-1.0	8.5	--	9.0	--	9.0	--	9.0	--
11/06/86	1200		7.1	-5.3	7.8	>-1.0	8.3	--	8.9	--	8.9	--	8.9	--
11/07/86	0		6.9	-5.4	7.7	>-1.0	8.2	--	8.7	--	8.7	--	8.7	--
11/07/86	1200		7.0	-5.6	7.7	>-1.0	8.3	--	8.8	--	8.8	--	8.8	--
11/08/86	0		6.7	-6.2	7.6	>-1.0	8.2	--	8.8	--	8.8	--	8.8	--
11/08/86	1200		6.7	-6.2	7.6	>-1.0	8.0	--	8.6	--	8.6	--	8.6	--
11/09/86	0		6.5	-6.3	7.4	>-1.0	7.8	--	8.5	--	8.5	--	8.5	--
11/09/86	1200		6.3	-6.4	7.3	>-1.0	7.9	--	8.5	--	8.5	--	8.5	--
11/10/86	0		5.8	-6.7	7.0	>-1.0	7.5	--	8.2	--	8.2	--	8.2	--
11/10/86	1200		5.6	-6.8	6.8	>-1.0	7.6	--	8.3	--	8.3	--	8.3	--
11/11/86	0		5.4	-7.0	6.7	>-1.0	7.2	--	7.9	--	7.9	--	7.9	--
11/11/86	1200		5.2	-7.1	6.6	>-1.0	7.3	--	8.0	--	8.0	--	8.0	--
11/12/86	0		4.9	-7.0	6.3	>-1.0	6.9	--	7.6	--	7.6	--	7.6	--
11/12/86	1200		4.7	-6.7	6.1	-1.0	6.8	--	7.5	--	7.5	--	7.5	--
11/13/86	0		4.5	-6.8	6.0	-1.5	6.8	--	7.6	--	7.6	--	7.6	--
11/13/86	1200		4.3	-6.6	5.7	-1.3	6.7	--	7.5	--	7.5	--	7.5	--
11/14/86	0		4.1	-6.8	5.6	-1.0	6.3	--	7.1	--	7.1	--	7.1	--
11/14/86	1200		4.0	-6.8	5.4	-1.1	6.4	--	7.2	--	7.2	--	7.2	--
11/15/86	0		3.9	-6.5	5.3	-1.4	6.2	--	7.1	--	7.1	--	7.1	--
11/15/86	1200		3.7	-6.3	5.1	-1.0	6.1	--	7.0	--	7.0	--	7.0	--
11/16/86	0		3.7	-6.1	5.0	>-1.0	6.0	--	6.9	--	6.9	--	6.9	--
11/16/86	1200		3.8	-5.8	5.0	-1.0	5.9	--	6.7	--	6.7	--	6.7	--
11/17/86	0		3.9	-5.7	5.0	>-1.0	5.7	--	6.6	--	6.6	--	6.6	--
11/17/86	1200		3.9	-5.5	5.0	>-1.0	5.7	--	6.5	--	6.5	--	6.5	--
11/18/86	0		3.9	-5.2	4.9	>-1.0	5.6	--	6.4	--	6.4	--	6.4	--
11/18/86	1200		4.1	-4.9	4.9	>-1.0	5.7	--	6.5	--	6.5	--	6.5	--
11/19/86	0		4.1	-5.2	5.0	>-1.0	5.5	--	6.3	--	6.3	--	6.3	--
11/19/86	1200		4.1	-4.8	5.0	>-1.0	5.6	--	6.4	--	6.4	--	6.4	--
11/20/86	0		4.3	-4.8	5.0	>-1.0	5.7	--	6.4	--	6.4	--	6.4	--
11/20/86	1200		4.2	-4.5	5.0	>-1.0	5.6	--	6.3	--	6.3	--	6.3	--
11/21/86	0		4.2	-4.7	5.0	>-1.0	5.6	--	6.2	--	6.2	--	6.2	--
11/21/86	1200		4.2	-4.7	5.0	>-1.0	5.7	--	6.3	--	6.3	--	6.3	--
11/22/86	0		4.3	-4.7	5.1	>-1.0	5.7	--	6.2	--	6.2	--	6.2	--
11/22/86	1200		4.3	-4.7	5.1	>-1.0	5.7	--	6.3	--	6.3	--	6.3	--

Table 3.--Temperature and soil-water potential for disturbed soil above the horizontal
culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#9 0.5			tcp#8 0.6			tcp#13 0.8			tcp#12 0.9		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
11/23/86	0	4.3	-4.8	5.1	>-1.0	5.6	5.6	--	6.3	--	--	--
11/23/86	1200	4.1	-5.0	5.1	>-1.0	5.5	5.5	--	6.2	--	--	--
11/24/86	0	4.0	-5.0	5.0	>-1.0	5.5	5.5	--	6.2	--	--	--
11/24/86	1200	3.9	-5.3	4.9	>-1.0	5.4	5.4	--	6.1	--	--	--
11/25/86	0	3.7	-5.1	4.7	>-1.0	5.5	5.5	--	6.2	--	--	--
11/25/86	1200	3.5	-5.3	4.6	>-1.0	5.3	5.3	--	6.1	--	--	--
11/26/86	0	3.5	-5.1	4.5	>-1.0	5.4	5.4	--	6.1	--	--	--
11/26/86	1200	3.6	-5.1	4.6	>-1.0	5.2	5.2	--	6.0	--	--	--
11/27/86	0	3.3	-5.2	4.4	>-1.0	5.1	5.1	--	5.8	--	--	--
11/27/86	1200	3.3	-5.1	4.4	>-1.0	5.2	5.2	--	5.9	--	--	--
11/28/86	0	3.3	-5.2	4.4	>-1.0	4.9	4.9	--	5.7	--	--	--
11/28/86	1200	3.1	-5.4	4.2	>-1.0	5.0	5.0	--	5.8	--	--	--
11/29/86	0	3.1	-5.2	4.2	>-1.0	4.9	4.9	--	5.7	--	--	--
11/29/86	1200	3.0	-5.1	4.1	>-1.0	4.8	4.8	--	5.6	--	--	--
11/30/86	0	3.0	-4.9	4.1	>-1.0	4.8	4.8	--	5.5	--	--	--
11/30/86	1200	2.8	-4.9	3.9	>-1.0	4.6	4.6	--	5.4	--	--	--
12/01/86	0	2.6	-5.2	3.8	>-1.0	4.4	4.4	--	5.3	--	--	--
12/01/86	1200	2.6	-5.3	3.8	>-1.0	4.4	4.4	--	5.3	--	--	--
12/02/86	0	2.3	-5.5	3.6	>-1.0	4.3	4.3	--	5.1	--	--	--
12/02/86	1200	2.3	-5.6	3.5	>-1.0	4.3	4.3	--	5.2	--	--	--
12/03/86	0	1.8	-5.8	3.3	>-1.0	4.0	4.0	--	4.8	--	--	--
12/03/86	1200	1.8	-5.4	3.2	>-1.0	4.0	4.0	--	4.9	--	--	--
12/04/86	0	1.7	-5.6	3.2	>-1.0	4.0	4.0	--	5.0	--	--	--
12/04/86	1200	1.6	-5.5	3.0	>-1.0	3.9	3.9	--	4.8	--	--	--
12/05/86	0	1.4	-5.6	2.9	>-1.0	3.7	3.7	--	4.7	--	--	--
12/05/86	1200	1.3	-5.4	2.7	>-1.0	3.5	3.5	--	4.5	--	--	--
12/06/86	0	1.3	-5.2	2.7	>-1.0	3.5	3.5	--	4.5	--	--	--
12/06/86	1200	1.3	-5.0	2.6	>-1.0	3.5	3.5	--	4.5	--	--	--
12/07/86	0	1.3	-4.7	2.5	>-1.0	3.4	3.4	--	4.4	--	--	--
12/07/86	1200	1.2	-4.7	2.4	>-1.0	3.1	3.1	--	4.1	--	--	--
12/08/86	0	1.3	-4.5	2.5	>-1.0	3.3	3.3	--	4.2	--	--	--
12/08/86	1200	1.3	-4.6	2.4	>-1.0	3.1	3.1	--	4.0	--	--	--
12/09/86	0	1.3	-4.4	2.4	>-1.0	3.1	3.1	--	4.0	--	--	--
12/09/86	1200	1.2	-4.3	2.3	>-1.0	2.9	2.9	--	3.8	--	--	--
12/10/86	0	1.2	-4.7	2.3	>-1.0	3.0	3.0	--	3.9	--	--	--
12/10/86	1200	1.1	-5.0	2.4	>-1.0	3.1	3.1	--	4.0	--	--	--

Table 3.--Temperature and soil-water potential for disturbed soil above the horizontal culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)	Date	Hour	tcp#9 0.5			tcp#8 0.6			tcp#13 0.8			tcp#12 0.9		
			Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
12/11/86	0		0.6	-5.3	2.0	>-1.0	2.7	--	3.6	--	3.6	--	3.6	--
12/11/86	1200		0.5	-5.5	2.0	>-1.0	2.8	--	3.8	--	3.8	--	3.8	--
12/12/86	0		0.3	-5.5	1.8	>-1.0	2.8	--	3.7	--	3.7	--	3.7	--
12/12/86	1200		-0.1	-5.4	1.5	>-1.0	2.4	--	3.4	--	3.4	--	3.4	--
12/13/86	0		-0.2	-5.4	1.5	>-1.0	2.4	--	3.5	--	3.5	--	3.5	--
12/13/86	1200		-0.2	-5.2	1.5	>-1.0	2.5	--	3.5	--	3.5	--	3.5	--
12/14/86	0		-0.5	-5.3	1.2	>-1.0	2.1	--	3.2	--	3.2	--	3.2	--
12/14/86	1200		-0.8	-5.3	0.9	>-1.0	1.9	--	3.0	--	3.0	--	3.0	--
12/15/86	0		-0.8	-5.3	0.8	>-1.0	1.7	--	2.9	--	2.9	--	2.9	--
12/15/86	1200		-0.9	-5.1	0.6	>-1.0	1.6	--	2.8	--	2.8	--	2.8	--
12/16/86	0		-1.0	-5.4	0.6	>-1.0	1.4	--	2.6	--	2.6	--	2.6	--
12/16/86	1200		-1.0	-5.1	0.5	>-1.0	1.5	--	2.7	--	2.7	--	2.7	--
12/17/86	0		-1.2	-5.5	0.4	>-1.0	1.2	--	2.3	--	2.3	--	2.3	--
12/17/86	1200		-1.0	-5.3	0.4	>-1.0	1.3	--	2.5	--	2.5	--	2.5	--
12/18/86	0		-1.2	-5.5	0.3	>-1.0	1.2	--	2.4	--	2.4	--	2.4	--
12/18/86	1200		-1.3	-5.8	0.2	>-1.0	1.0	--	2.2	--	2.2	--	2.2	--
12/19/86	0		-1.4	-6.3	0.1	>-1.0	0.9	--	2.1	--	2.1	--	2.1	--
12/19/86	1200		-1.3	-6.8	0.2	>-1.0	1.1	--	2.2	--	2.2	--	2.2	--
12/20/86	0		-1.5	-7.0	0.0	>-1.0	0.9	--	2.0	--	2.0	--	2.0	--
12/20/86	1200		-1.6	-7.2	-0.1	>-1.0	0.7	--	1.9	--	1.9	--	1.9	--
12/21/86	0		-1.6	-7.2	-0.1	>-1.0	0.7	--	1.9	--	1.9	--	1.9	--
12/21/86	1200		-1.5	-7.1	-0.1	>-1.0	0.8	--	1.9	--	1.9	--	1.9	--
12/22/86	0		-1.7	-7.2	-0.3	>-1.0	0.6	--	1.7	--	1.7	--	1.7	--
12/22/86	1200		-1.7	-7.3	-0.2	>-1.0	0.5	--	1.7	--	1.7	--	1.7	--
12/23/86	0		-1.7	-7.7	-0.3	>-1.0	0.6	--	1.8	--	1.8	--	1.8	--
12/23/86	1200		-1.9	-7.7	-0.4	>-1.0	0.5	--	1.6	--	1.6	--	1.6	--
12/24/86	0		-1.9	-8.0	-0.4	>-1.0	0.5	--	1.7	--	1.7	--	1.7	--
12/24/86	1200		-1.9	-7.9	-0.5	>-1.0	0.4	--	1.5	--	1.5	--	1.5	--
12/25/86	0		-2.1	-8.0	-0.7	-1.0	0.1	--	1.3	--	1.3	--	1.3	--
12/25/86	1200		-2.1	-7.9	-0.6	>-1.0	0.1	--	1.3	--	1.3	--	1.3	--
12/26/86	0		-2.0	-8.1	-0.6	>-1.0	0.3	--	1.4	--	1.4	--	1.4	--
12/26/86	1200		-2.0	-8.3	-0.6	>-1.0	0.2	--	1.4	--	1.4	--	1.4	--
12/27/86	0		-2.1	-7.8	-0.7	>-1.0	0.1	--	1.3	--	1.3	--	1.3	--
12/27/86	1200		-1.9	-7.5	-0.7	>-1.0	0.2	--	1.4	--	1.4	--	1.4	--
12/28/86	0		-2.0	-7.7	-0.7	>-1.0	0.1	--	1.3	--	1.3	--	1.3	--
12/28/86	1200		-2.2	-7.7	-0.9	-1.1	-0.2	--	1.0	--	1.0	--	1.0	--

Table 3.--Temperature and soil-water potential for disturbed soil above the horizontal culvert at the west test trench--Continued

Sensor identifier Depth below land surface (meters)		tcp#9		tcp#8		tcp#13		tcp#12	
		0.5		0.6		0.8		0.9	
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
12/29/86	0	-2.2	-8.5	-0.8	>-1.0	-0.1	--	1.0	--
12/29/86	1200	-2.3	-8.6	-0.9	>-1.0	-0.2	--	0.9	--
12/30/86	0	-2.3	-9.0	-0.9	>-1.0	-0.0	--	1.1	--
12/30/86	1200	-2.5	-9.3	-1.0	>-1.0	-0.2	--	1.0	--
12/31/86	0	-2.4	-9.5	-1.0	>-1.0	-0.1	--	1.0	--
12/31/86	1200	-2.5	-9.6	-1.0	>-1.0	-0.2	--	0.9	--

Table 4.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the east test trench

Sensor identifier Depth below land surface (meters)	tcp#40			tcp#39			tcp#38			tcp#37		
	0.6			0.9			1.5			2.1		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)
10/25/86	0	9.8	-8.3	10.9	-4.7	11.9	-13.7	12.2	-15.2	12.2	-15.2	12.2
10/25/86	1200	9.7	-8.2	10.7	-5.0	11.7	-13.7	12.1	-15.1	12.1	-15.1	12.1
10/26/86	0	9.8	-8.0	10.8	-4.6	11.9	-13.7	12.2	-15.0	12.2	-15.0	12.2
10/26/86	1200	9.6	-8.3	10.7	-4.6	11.7	-13.7	12.1	-15.0	12.1	-15.0	12.1
10/27/86	0	9.7	-8.2	10.7	-4.7	11.8	-13.5	12.2	-15.0	12.2	-15.0	12.2
10/27/86	1200	9.5	-8.3	10.5	-4.6	11.6	-13.6	12.0	-15.0	12.0	-15.0	12.0
10/28/86	0	9.6	-8.2	10.6	-4.5	11.7	-13.5	12.1	-14.8	12.1	-14.8	12.1
10/28/86	1200	9.5	-8.1	10.5	-4.5	11.5	-13.4	11.9	-14.7	11.9	-14.7	11.9
10/29/86	0	9.5	-8.0	10.6	-4.4	11.6	-13.3	12.0	-14.8	12.0	-14.8	12.0
10/29/86	1200	9.4	-8.1	10.4	-4.4	11.5	-13.3	11.9	-14.7	11.9	-14.7	11.9
10/30/86	0	9.4	-8.1	10.5	-4.3	11.5	-13.4	12.0	-14.7	12.0	-14.7	12.0
10/30/86	1200	9.2	-8.1	10.3	-4.4	11.4	-13.5	11.8	-14.8	11.8	-14.8	11.8
10/31/86	0	9.3	-8.0	10.4	-4.4	11.6	-13.5	12.0	-14.7	12.0	-14.7	12.0
10/31/86	1200	9.2	-8.1	10.3	-4.4	11.5	-13.4	11.9	-14.6	11.9	-14.6	11.9
11/01/86	0	9.0	-8.1	10.2	-4.3	11.4	-13.4	11.8	-14.6	11.8	-14.6	11.8
11/01/86	1200	8.8	-8.0	10.1	-4.1	11.2	-13.5	11.7	-14.6	11.7	-14.6	11.7
11/02/86	0	8.8	-7.9	10.2	-4.1	11.4	-13.4	11.8	-14.6	11.8	-14.6	11.8
11/02/86	1200	8.5	-8.0	10.0	-4.2	11.2	-13.4	11.7	-14.5	11.7	-14.5	11.7
11/03/86	0	8.5	-7.9	10.0	-4.2	11.4	-13.3	11.9	-14.4	11.9	-14.4	11.9
11/03/86	1200	8.2	-7.9	9.9	-4.3	11.2	-13.4	11.7	-14.4	11.7	-14.4	11.7
11/04/86	0	8.0	-7.9	9.7	-4.1	11.2	-13.5	11.7	-14.3	11.7	-14.3	11.7
11/04/86	1200	7.8	-7.9	9.6	-4.1	11.1	-13.4	11.6	-14.4	11.6	-14.4	11.6
11/05/86	0	7.9	-7.9	9.6	-4.2	11.1	-13.5	11.7	-14.3	11.7	-14.3	11.7
11/05/86	1200	7.6	-7.8	9.4	-4.0	11.0	-13.5	11.5	-14.5	11.5	-14.5	11.5
11/06/86	0	7.7	-7.8	9.4	-4.0	11.0	-13.4	11.6	-14.4	11.6	-14.4	11.6
11/06/86	1200	7.6	-7.8	9.3	-4.0	11.0	-13.4	11.6	-14.4	11.6	-14.4	11.6
11/07/86	0	7.6	-7.7	9.2	-3.9	10.9	-13.5	11.5	-14.4	11.5	-14.4	11.5
11/07/86	1200	7.6	-7.6	9.2	-4.0	10.8	-13.4	11.5	-14.4	11.5	-14.4	11.5
11/08/86	0	7.4	-7.7	9.1	-4.0	10.8	-13.6	11.5	-14.6	11.5	-14.6	11.5
11/08/86	1200	7.3	-7.8	9.1	-4.2	10.8	-13.4	11.5	-14.6	11.5	-14.6	11.5
11/09/86	0	7.3	-7.7	9.0	-4.1	10.8	-13.5	11.5	-14.3	11.5	-14.3	11.5
11/09/86	1200	7.2	-7.7	9.0	-4.0	10.8	-13.6	11.5	-14.5	11.5	-14.5	11.5
11/10/86	0	6.9	-7.7	8.8	-4.1	10.6	-13.5	11.3	-14.4	11.3	-14.4	11.3
11/10/86	1200	6.7	-7.7	8.6	-4.1	10.5	-13.5	11.3	-14.6	11.3	-14.6	11.3
11/11/86	0	6.6	-7.7	8.7	-4.1	10.6	-13.4	11.3	-14.3	11.3	-14.3	11.3
11/11/86	1200	6.4	-7.8	8.6	-4.3	10.5	-13.5	11.3	-14.5	11.3	-14.5	11.3

Table 4. ---Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the east test trench---Continued

Sensor identifier Depth below land surface (meters)		tcp#40 0.6			tcp#39 0.9			tcp#38 1.5			tcp#37 2.1		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
11/12/86	0	6.3	-7.7	8.5	-4.1	10.5	-13.4	11.3	-13.4	11.3	-14.5		
11/12/86	1200	5.9	-7.8	8.2	-4.1	10.3	-13.4	11.1	-13.4	11.1	-14.4		
11/13/86	0	5.9	-7.7	8.2	-4.1	10.4	-13.4	11.2	-13.4	11.2	-14.5		
11/13/86	1200	5.7	-7.7	8.0	-3.8	10.2	-13.4	11.1	-13.4	11.1	-14.4		
11/14/86	0	5.6	-7.6	8.0	-4.1	10.2	-13.5	11.1	-13.5	11.1	-14.6		
11/14/86	1200	5.4	-7.7	7.8	-3.8	10.1	-13.5	11.1	-13.5	11.1	-14.4		
11/15/86	0	5.3	-7.6	7.8	-3.9	10.1	-13.6	11.1	-13.6	11.1	-14.5		
11/15/86	1200	5.1	-7.6	7.5	-3.9	9.9	-13.5	11.0	-13.5	11.0	-14.5		
11/16/86	0	5.0	-7.4	7.5	-3.9	9.9	-13.4	11.0	-13.4	11.0	-14.2		
11/16/86	1200	4.9	-7.7	7.4	-3.9	9.9	-13.4	10.9	-13.4	10.9	-14.3		
11/17/86	0	5.0	-7.6	7.3	-3.9	9.9	-13.4	11.0	-13.4	11.0	-14.4		
11/17/86	1200	4.9	-7.6	7.2	-4.0	9.8	-13.3	10.9	-13.3	10.9	-14.3		
11/18/86	0	5.0	-7.7	7.2	-4.1	9.7	-13.4	10.9	-13.4	10.9	-14.1		
11/18/86	1200	4.9	-7.5	7.1	-4.0	9.6	-13.3	10.7	-13.3	10.7	-14.3		
11/19/86	0	5.0	-7.4	7.1	-3.8	9.6	-13.3	10.8	-13.3	10.8	-14.2		
11/19/86	1200	4.9	-7.5	7.0	-4.0	9.5	-13.4	10.7	-13.4	10.7	-13.8		
11/20/86	0	5.0	-7.4	7.1	-3.8	9.5	-13.2	10.7	-13.2	10.7	-14.0		
11/20/86	1200	4.9	-7.5	6.9	-4.2	9.3	-13.3	10.6	-13.3	10.6	-14.0		
11/21/86	0	5.0	-7.3	6.9	-4.0	9.3	-13.4	10.6	-13.4	10.6	-13.9		
11/21/86	1200	5.0	-7.4	6.8	-4.0	9.2	-13.2	10.5	-13.2	10.5	-13.8		
11/22/86	0	5.0	-7.3	6.9	-3.9	9.3	-13.2	10.5	-13.2	10.5	-13.5		
11/22/86	1200	5.0	-7.4	6.8	-4.2	9.2	-13.2	10.5	-13.2	10.5	-13.6		
11/23/86	0	5.1	-7.6	6.9	-3.9	9.3	-13.2	10.5	-13.2	10.5	-13.1		
11/23/86	1200	5.0	-7.5	6.8	-4.0	9.1	-13.2	10.4	-13.2	10.4	-13.3		
11/24/86	0	4.9	-7.4	6.8	-4.0	9.2	-13.3	10.4	-13.3	10.4	-13.1		
11/24/86	1200	4.7	-7.4	6.7	-3.9	9.0	-13.2	10.3	-13.2	10.3	-13.1		
11/25/86	0	4.6	-7.5	6.6	-4.0	9.0	-13.3	10.2	-13.3	10.2	-13.3		
11/25/86	1200	4.5	-7.3	6.5	-4.2	8.8	-13.3	10.1	-13.3	10.1	-13.0		
11/26/86	0	4.5	-7.6	6.5	-3.9	8.9	-13.3	10.2	-13.3	10.2	-13.0		
11/26/86	1200	4.5	-7.3	6.5	-4.1	8.9	-13.3	10.2	-13.3	10.2	-12.8		
11/27/86	0	4.3	-7.3	6.4	-3.9	8.8	-13.2	10.1	-13.2	10.1	-12.8		
11/27/86	1200	4.2	-7.4	6.3	-4.1	8.7	-13.2	10.0	-13.2	10.0	-12.7		
11/28/86	0	4.2	-7.3	6.4	-4.0	8.8	-13.3	10.1	-13.3	10.1	-12.7		
11/28/86	1200	4.0	-7.3	6.2	-4.0	8.7	-13.3	10.0	-13.3	10.0	-12.6		
11/29/86	0	4.1	-7.3	6.3	-3.9	8.8	-13.3	10.1	-13.3	10.1	-12.6		
11/29/86	1200	3.9	-7.4	6.1	-4.0	8.6	-13.3	10.0	-13.3	10.0	-12.6		

Table 4.---Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the east test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#40			tcp#39			tcp#38			tcp#37		
	0.6			0.9			1.5			2.1		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)
11/30/86	0	3.9	-7.4	6.1	-3.9	8.7	-13.1	10.0	-12.6			
11/30/86	1200	3.7	-7.3	5.9	-3.9	8.5	-12.9	9.9	-12.3			
12/01/86	0	3.7	-7.3	5.9	-4.0	8.4	-13.1	9.8	-12.4			
12/01/86	1200	3.5	-7.3	5.8	-4.0	8.4	-13.0	9.8	-12.4			
12/02/86	0	3.4	-7.4	5.7	-4.0	8.3	-13.3	9.8	-12.5			
12/02/86	1200	3.3	-7.2	5.7	-3.8	8.3	-13.1	9.8	-12.5			
12/03/86	0	3.1	-7.1	5.5	-4.0	8.2	-13.0	9.7	-12.4			
12/03/86	1200	2.9	-7.3	5.5	-4.0	8.2	-13.0	9.7	-12.3			
12/04/86	0	2.9	-7.3	5.5	-4.1	8.3	-13.1	9.8	-12.4			
12/04/86	1200	2.7	-7.2	5.4	-3.8	8.2	-13.0	9.7	-11.9			
12/05/86	0	2.6	-7.3	5.3	-4.1	8.2	-13.1	9.7	-12.0			
12/05/86	1200	2.4	-7.3	5.1	-3.9	8.0	-13.1	9.6	-12.1			
12/06/86	0	2.4	-7.3	5.1	-4.0	8.0	-13.2	9.6	-12.1			
12/06/86	1200	2.4	-7.3	5.1	-4.2	8.0	-13.1	9.7	-12.0			
12/07/86	0	2.3	-7.3	4.9	-4.1	8.0	-13.2	9.5	-12.0			
12/07/86	1200	2.1	-7.2	4.7	-3.9	7.7	-13.1	9.3	-11.9			
12/08/86	0	2.3	-7.3	4.8	-4.1	7.8	-13.1	9.4	-11.8			
12/08/86	1200	2.2	-7.4	4.7	-4.1	7.7	-13.2	9.4	-11.7			
12/09/86	0	2.2	-7.3	4.6	-3.9	7.7	-13.0	9.3	-11.5			
12/09/86	1200	2.0	-7.3	4.4	-3.9	7.4	-13.1	9.1	-11.5			
12/10/86	0	2.2	-7.2	4.6	-4.2	7.6	-12.9	9.3	-11.7			
12/10/86	1200	2.1	-7.2	4.6	-4.0	7.6	-12.9	9.4	-11.6			
12/11/86	0	1.8	-7.3	4.3	-4.0	7.3	-12.9	9.1	-11.3			
12/11/86	1200	1.8	-7.3	4.4	-4.1	7.4	-12.9	9.1	-11.4			
12/12/86	0	1.7	-7.3	4.4	-4.2	7.4	-13.1	9.1	-11.5			
12/12/86	1200	1.4	-7.3	4.1	-3.9	7.2	-12.9	8.9	-11.2			
12/13/86	0	1.5	-7.2	4.2	-3.9	7.3	-12.9	9.0	-11.3			
12/13/86	1200	1.5	-7.2	4.3	-3.9	7.4	-12.9	9.3	-11.4			
12/14/86	0	1.2	-7.3	3.9	-3.9	7.1	-12.7	8.9	-11.3			
12/14/86	1200	0.9	-7.3	3.7	-3.9	6.9	-13.0	8.7	-11.3			
12/15/86	0	1.0	-7.4	3.8	-4.1	7.0	-12.9	8.8	-11.4			
12/15/86	1200	0.8	-7.1	3.6	-4.0	6.9	-12.9	8.7	-11.2			
12/16/86	0	0.8	-7.2	3.6	-4.0	6.8	-12.8	8.7	-11.3			
12/16/86	1200	0.7	-7.3	3.5	-3.9	6.8	-13.0	8.7	-11.2			
12/17/86	0	0.6	-7.1	3.4	-4.0	6.7	-12.8	8.6	-11.1			
12/17/86	1200	0.6	-7.4	3.3	-3.9	6.7	-12.8	8.6	-11.1			

Table 4.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the east test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#40			tcp#39			tcp#38			tcp#37		
	0.6			0.9			1.5			2.1		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil-water potential (bars)
12/18/86	0	0.6	-7.3	3.3	-4.2	6.7	-12.9	8.6	-11.2			
12/18/86	1200	0.4	-7.2	3.1	-3.9	6.5	-12.8	8.5	-11.1			
12/19/86	0	0.3	-7.3	3.1	-4.0	6.4	-12.8	8.4	-11.0			
12/19/86	1200	0.4	-7.2	3.1	-3.9	6.5	-12.9	8.5	-11.2			
12/20/86	0	0.3	-7.2	3.0	-4.0	6.4	-12.8	8.4	-11.0			
12/20/86	1200	0.1	-7.2	2.9	-4.0	6.3	-12.6	8.3	-11.0			
12/21/86	0	0.2	-7.3	2.9	-4.0	6.3	-12.7	8.3	-10.8			
12/21/86	1200	0.2	-7.3	2.9	-4.0	6.3	-12.7	8.4	-10.9			
12/22/86	0	0.0	-7.1	2.8	-4.0	6.2	-12.7	8.2	-10.9			
12/22/86	1200	0.0	-7.2	2.7	-3.8	6.2	-12.7	8.2	-10.8			
12/23/86	0	0.0	-7.1	2.8	-4.1	6.2	-12.6	8.3	-10.9			
12/23/86	1200	-0.2	-7.3	2.5	-3.9	6.0	-12.6	8.0	-10.8			
12/24/86	0	-0.1	-7.3	2.6	-4.0	6.1	-12.6	8.1	-10.7			
12/24/86	1200	-0.3	-7.2	2.5	-3.9	5.9	-12.7	8.0	-10.7			
12/25/86	0	-0.3	-7.3	2.4	-4.0	5.8	-12.5	7.9	-10.8			
12/25/86	1200	-0.4	-7.3	2.4	-4.0	5.8	-12.6	7.9	-10.7			
12/26/86	0	-0.4	-7.3	2.4	-3.8	5.8	-12.4	7.9	-10.6			
12/26/86	1200	-0.4	-7.5	2.3	-4.1	5.7	-12.5	7.8	-10.4			
12/27/86	0	-0.4	-7.5	2.3	-4.0	5.7	-12.4	7.9	-10.5			
12/27/86	1200	-0.4	-7.5	2.3	-4.1	5.7	-12.3	7.8	-10.4			
12/28/86	0	-0.4	-7.5	2.3	-3.9	5.4	-12.3	7.6	-10.3			
12/28/86	1200	-0.7	-7.7	2.0	-4.0	5.5	-12.5	7.7	-10.4			
12/29/86	0	-0.6	-7.7	2.1	-3.8	5.4	-12.5	7.6	-10.2			
12/29/86	1200	-0.7	-7.6	2.0	-3.9	5.4	-12.3	7.6	-10.2			
12/30/86	0	-0.7	-7.7	2.0	-3.8	5.3	-12.2	7.4	-10.2			
12/30/86	1200	-0.9	-7.9	1.9	-3.9	5.4	-12.4	7.6	-10.1			
12/31/86	0	-0.8	-8.1	2.0	-3.9	5.3	-12.4	7.5	-10.1			
12/31/86	1200	-0.9	-8.2	1.9	-3.9	5.3	-12.4	7.5	-10.1			

Table 4.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the east test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#35		tcp#32		
	2.7		3.4		
	Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)
10/25/86	0	12.0	-19.4	11.6	-18.5
10/25/86	1200	11.9	-19.3	11.5	-18.4
10/26/86	0	12.1	-19.2	11.7	-18.5
10/26/86	1200	12.0	-19.3	11.6	-18.6
10/27/86	0	12.0	-19.1	11.6	-18.7
10/27/86	1200	11.9	-19.1	11.5	-18.7
10/28/86	0	12.0	-19.2	11.6	-18.7
10/28/86	1200	11.9	-19.1	11.5	-18.8
10/29/86	0	12.0	-19.1	11.6	-18.7
10/29/86	1200	11.9	-19.0	11.5	-18.8
10/30/86	0	11.9	-19.3	11.6	-18.7
10/30/86	1200	11.8	-18.8	11.5	-18.8
10/31/86	0	11.9	-19.2	11.6	-18.8
10/31/86	1200	11.9	-18.9	11.5	-18.6
11/01/86	0	11.8	-18.8	11.5	-18.6
11/01/86	1200	11.7	-18.7	11.4	-18.6
11/02/86	0	11.8	-18.7	11.5	-18.7
11/02/86	1200	11.7	-18.7	11.4	-18.5
11/03/86	0	11.8	-18.7	11.6	-18.6
11/03/86	1200	11.8	-18.8	11.5	-18.5
11/04/86	0	11.7	-18.8	11.4	-18.6
11/04/86	1200	11.7	-18.6	11.4	-18.5
11/05/86	0	11.7	-18.7	11.5	-18.7
11/05/86	1200	11.6	-18.7	11.3	-18.8
11/06/86	0	11.7	-18.6	11.4	-18.6
11/06/86	1200	11.6	-18.8	11.4	-18.7
11/07/86	0	11.6	-18.5	11.3	-18.8
11/07/86	1200	11.6	-18.6	11.4	-18.7
11/08/86	0	11.6	-18.8	11.3	-18.7
11/08/86	1200	11.6	-18.6	11.4	-18.7
11/09/86	0	11.6	-18.5	11.5	-18.4
11/09/86	1200	11.7	-18.6	11.5	-18.6
11/10/86	0	11.5	-18.7	11.3	-18.7
11/10/86	1200	11.4	-18.4	11.3	-18.5
11/11/86	0	11.5	-18.6	11.4	-18.5
11/11/86	1200	11.5	-18.5	11.3	-18.6

Table 4.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the east test trench--Continued

Sensor identifier	tcp#35			tcp#32		
Depth below land surface (meters)	2.7			3.4		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	
11/12/86	0	11.5	-18.5	11.4	-18.6	
11/12/86	1200	11.4	-18.3	11.2	-18.5	
11/13/86	0	11.4	-18.6	11.3	-18.6	
11/13/86	1200	11.4	-18.5	11.3	-18.4	
11/14/86	0	11.4	-18.5	11.3	-18.6	
11/14/86	1200	11.4	-18.7	11.2	-18.5	
11/15/86	0	11.4	-18.5	11.3	-18.8	
11/15/86	1200	11.2	-18.6	11.1	-18.8	
11/16/86	0	11.3	-18.4	11.2	-18.8	
11/16/86	1200	11.3	-18.6	11.2	-18.6	
11/17/86	0	11.3	-18.5	11.3	-18.6	
11/17/86	1200	11.2	-18.6	11.2	-18.7	
11/18/86	0	11.2	-18.6	11.2	-18.7	
11/18/86	1200	11.2	-18.5	11.1	-18.6	
11/19/86	0	11.2	-18.5	11.2	-18.5	
11/19/86	1200	11.1	-18.6	11.1	-18.5	
11/20/86	0	11.2	-18.3	11.2	-18.5	
11/20/86	1200	11.1	-18.6	11.1	-18.5	
11/21/86	0	11.1	-18.6	11.1	-18.6	
11/21/86	1200	11.0	-18.7	11.0	-18.4	
11/22/86	0	11.0	-18.4	11.1	-18.5	
11/22/86	1200	11.0	-18.4	11.0	-18.5	
11/23/86	0	11.1	-18.5	11.1	-18.4	
11/23/86	1200	11.0	-18.4	11.1	-18.4	
11/24/86	0	11.0	-18.4	11.1	-18.2	
11/24/86	1200	10.9	-18.4	11.0	-18.4	
11/25/86	0	10.9	-18.6	10.9	-18.6	
11/25/86	1200	10.8	-18.4	10.9	-18.4	
11/26/86	0	10.8	-18.5	10.9	-18.6	
11/26/86	1200	10.9	-18.5	11.0	-18.5	
11/27/86	0	10.8	-18.3	10.9	-18.5	
11/27/86	1200	10.7	-18.5	10.9	-18.3	
11/28/86	0	10.8	-18.2	11.0	-18.3	
11/28/86	1200	10.8	-18.4	10.9	-18.4	
11/29/86	0	10.9	-18.6	11.0	-18.5	
11/29/86	1200	10.7	-18.4	10.8	-18.6	

Table 4.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the east test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#35				tcp#32	
	2.7				3.4	
	Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
11/30/86	0	10.7	-18.3	10.9	-18.4	
11/30/86	1200	10.6	-18.4	10.8	-18.3	
12/01/86	0	10.6	-18.4	10.8	-18.3	
12/01/86	1200	10.6	-18.3	10.7	-18.3	
12/02/86	0	10.5	-18.3	10.7	-18.5	
12/02/86	1200	10.6	-18.3	10.8	-18.4	
12/03/86	0	10.4	-18.5	10.6	-18.5	
12/03/86	1200	10.5	-18.2	10.7	-18.3	
12/04/86	0	10.5	-18.5	10.8	-18.3	
12/04/86	1200	10.5	-18.3	10.8	-18.3	
12/05/86	0	10.5	-18.3	10.8	-18.3	
12/05/86	1200	10.4	-18.4	10.6	-18.3	
12/06/86	0	10.5	-18.3	10.7	-18.3	
12/06/86	1200	10.5	-18.3	10.8	-18.2	
12/07/86	0	10.4	-18.4	10.7	-18.1	
12/07/86	1200	10.2	-18.5	10.5	-18.3	
12/08/86	0	10.4	-18.1	10.7	-17.5	
12/08/86	1200	10.3	-18.4	10.5	-17.3	
12/09/86	0	10.2	-18.2	10.5	-17.0	
12/09/86	1200	10.1	-18.3	10.4	-16.7	
12/10/86	0	10.2	-18.2	10.5	-16.7	
12/10/86	1200	10.3	-18.1	10.7	-16.5	
12/11/86	0	10.0	-18.1	10.4	-16.3	
12/11/86	1200	10.1	-18.0	10.5	-16.2	
12/12/86	0	10.1	-18.2	10.5	-16.2	
12/12/86	1200	10.0	-18.3	10.3	-16.1	
12/13/86	0	10.1	-18.1	10.5	-15.9	
12/13/86	1200	10.3	-17.9	10.7	-16.3	
12/14/86	0	10.0	-18.1	10.4	-16.3	
12/14/86	1200	9.8	-18.1	10.3	-16.4	
12/15/86	0	9.9	-18.1	10.3	-16.4	
12/15/86	1200	9.8	-18.2	10.3	-16.4	
12/16/86	0	9.8	-18.1	10.2	-16.3	
12/16/86	1200	9.9	-18.3	10.3	-16.3	
12/17/86	0	9.7	-18.2	10.2	-16.2	
12/17/86	1200	9.8	-18.0	10.2	-16.4	

Table 4.--Temperature and soil-water potential for undisturbed soil, 3.2 meters from the vertical culvert at the east test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#35		tcp#32			
	2.7		3.4			
	Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
12/18/86	0	9.8	-18.1	10.2	-16.2	-16.2
12/18/86	1200	9.6	-18.2	10.1	-16.2	-16.2
12/19/86	0	9.6	-18.1	10.1	-16.1	-16.1
12/19/86	1200	9.7	-18.0	10.2	-15.9	-15.9
12/20/86	0	9.6	-18.3	10.1	-16.2	-16.2
12/20/86	1200	9.5	-18.3	10.0	-16.1	-16.1
12/21/86	0	9.6	-18.1	10.0	-16.3	-16.3
12/21/86	1200	9.6	-17.9	10.2	-16.0	-16.0
12/22/86	0	9.5	-18.1	10.0	-15.9	-15.9
12/22/86	1200	9.5	-18.1	10.0	-15.8	-15.8
12/23/86	0	9.5	-18.1	10.1	-15.7	-15.7
12/23/86	1200	9.4	-18.0	9.9	-15.6	-15.6
12/24/86	0	9.4	-17.9	10.0	-15.6	-15.6
12/24/86	1200	9.4	-18.0	9.9	-15.7	-15.7
12/25/86	0	9.3	-18.0	9.9	-15.7	-15.7
12/25/86	1200	9.3	-17.8	9.8	-15.4	-15.4
12/26/86	0	9.3	-17.9	9.9	-15.3	-15.3
12/26/86	1200	9.3	-18.1	9.9	-15.4	-15.4
12/27/86	0	9.2	-17.9	9.8	-15.2	-15.2
12/27/86	1200	9.3	-17.9	9.9	-15.2	-15.2
12/28/86	0	9.2	-17.9	9.9	-15.4	-15.4
12/28/86	1200	9.0	-17.9	9.6	-15.1	-15.1
12/29/86	0	9.1	-18.0	9.7	-15.3	-15.3
12/29/86	1200	9.0	-17.7	9.6	-15.1	-15.1
12/30/86	0	9.0	-17.9	9.7	-15.1	-15.1
12/30/86	1200	8.9	-18.0	9.6	-15.1	-15.1
12/31/86	0	9.0	-17.8	9.7	-15.2	-15.2
12/31/86	1200	8.9	-18.0	9.6	-15.1	-15.1

Table 5.--Temperature and soil-water potential for undisturbed soil beneath the horizontal culvert at the east test trench

Sensor identifier Depth below land surface (meters)	tcp#25 3.8			tcp#23 4.1			tcp#22 4.4			tcp#30 5.0		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	
10/25/86	0	11.6	-18.1	11.4	-9.4	11.1	-3.3	10.4	-10.8			
10/25/86	1200	11.4	-18.6	11.2	-9.5	11.0	-3.2	10.4	-10.9			
10/26/86	0	11.7	-18.5	11.4	-9.2	11.2	-3.2	10.5	-10.9			
10/26/86	1200	11.5	-18.4	11.2	-9.0	11.1	-3.1	10.4	-10.8			
10/27/86	0	11.6	-18.4	11.4	-9.1	11.2	-3.2	10.5	-10.8			
10/27/86	1200	11.4	-18.8	11.1	-9.4	11.0	-3.4	10.4	-10.9			
10/28/86	0	11.6	-18.6	11.3	-9.2	11.1	-3.2	10.4	-10.8			
10/28/86	1200	11.4	-18.8	11.2	-9.0	11.1	-3.4	10.4	-10.9			
10/29/86	0	11.6	-18.9	11.3	-9.1	11.2	-3.4	10.5	-10.7			
10/29/86	1200	11.5	-19.0	11.2	-9.4	11.1	-3.4	10.4	-10.9			
10/30/86	0	11.5	-19.3	11.3	-9.3	11.1	-3.3	10.5	-10.8			
10/30/86	1200	11.4	-19.2	11.2	-9.3	11.0	-3.3	10.4	-11.0			
10/31/86	0	11.5	-19.2	11.3	-9.0	11.1	-3.6	10.5	-11.2			
10/31/86	1200	11.5	-19.0	11.3	-8.9	11.2	-3.5	10.5	-10.8			
11/01/86	0	11.5	-18.9	11.3	-8.9	11.0	-3.6	10.4	-10.8			
11/01/86	1200	11.4	-19.0	11.1	-8.9	10.9	-3.6	10.3	-10.9			
11/02/86	0	11.6	-18.9	11.3	-8.9	11.1	-3.7	10.5	-10.8			
11/02/86	1200	11.4	-18.9	11.1	-8.6	11.0	-3.6	10.5	-10.8			
11/03/86	0	11.6	-19.0	11.3	-8.9	11.2	-3.8	10.6	-11.0			
11/03/86	1200	11.5	-19.5	11.2	-8.7	11.1	-3.8	10.6	-11.1			
11/04/86	0	11.5	-19.2	11.3	-8.9	11.0	-3.9	10.3	-10.9			
11/04/86	1200	11.4	-18.9	11.1	-8.6	11.0	-3.7	10.5	-10.7			
11/05/86	0	11.6	-18.9	11.3	-8.7	11.1	-3.8	10.5	-10.8			
11/05/86	1200	11.3	-19.3	11.1	-9.1	11.0	-3.9	10.4	-10.9			
11/06/86	0	11.5	-19.3	11.3	-8.9	11.1	-3.7	10.5	-10.9			
11/06/86	1200	11.4	-19.2	11.2	-8.8	11.1	-3.8	10.5	-10.9			
11/07/86	0	11.4	-19.1	11.2	-9.0	10.9	-3.8	10.3	-10.9			
11/07/86	1200	11.4	-19.3	11.2	-9.3	11.0	-3.9	10.5	-10.8			
11/08/86	0	11.4	-19.1	11.2	-9.2	10.9	-3.8	10.3	-10.6			
11/08/86	1200	11.4	-19.2	11.2	-9.3	11.0	-4.0	10.5	-10.8			
11/09/86	0	11.5	-19.2	11.2	-8.9	11.2	-3.6	10.6	-10.6			
11/09/86	1200	11.5	-19.2	11.2	-9.1	11.2	-3.9	10.6	-10.9			
11/10/86	0	11.4	-19.0	11.2	-9.1	10.9	-3.8	10.4	-10.6			
11/10/86	1200	11.3	-18.8	11.1	-9.1	10.9	-3.8	10.4	-10.6			
11/11/86	0	11.4	-18.9	11.2	-9.1	11.1	-3.7	10.6	-10.7			
11/11/86	1200	11.3	-19.1	11.2	-9.1	10.9	-3.9	10.4	-10.7			

Table 5.--Temperature and soil-water potential for undisturbed soil beneath the horizontal culvert at the east test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#25			tcp#23			tcp#22			tcp#30		
	3.8			4.1			4.4			5.0		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil-water potential (bars)
11/12/86	0	11.4	-19.0	11.2	-9.0	11.1	-3.8	10.6	-10.4			
11/12/86	1200	11.2	-18.8	11.1	-9.1	11.0	-3.8	10.5	-10.4			
11/13/86	0	11.4	-18.8	11.2	-9.1	11.0	-3.9	10.5	-10.5			
11/13/86	1200	11.3	-18.9	11.1	-8.8	11.0	-3.9	10.5	-10.5			
11/14/86	0	11.3	-19.0	11.2	-9.0	11.0	-3.7	10.5	-10.3			
11/14/86	1200	11.2	-19.0	11.1	-8.7	11.0	-3.7	10.5	-10.4			
11/15/86	0	11.3	-19.0	11.1	-9.2	10.9	-3.9	10.4	-10.4			
11/15/86	1200	11.2	-18.8	11.1	-9.1	10.9	-3.7	10.4	-10.4			
11/16/86	0	11.3	-18.8	11.2	-8.9	11.0	-3.7	10.4	-10.4			
11/16/86	1200	11.2	-19.0	11.1	-8.9	11.0	-3.7	10.5	-10.4			
11/17/86	0	11.3	-18.9	11.1	-8.9	11.1	-3.8	10.6	-10.4			
11/17/86	1200	11.2	-19.0	11.0	-9.0	11.0	-3.9	10.6	-10.2			
11/18/86	0	11.3	-19.0	11.1	-8.8	11.0	-3.9	10.5	-10.1			
11/18/86	1200	11.1	-18.9	11.0	-9.0	11.0	-3.9	10.5	-10.3			
11/19/86	0	11.2	-18.9	11.1	-9.0	11.1	-3.7	10.6	-10.3			
11/19/86	1200	11.1	-18.8	11.0	-9.0	10.9	-3.8	10.5	-10.3			
11/20/86	0	11.2	-18.7	11.1	-8.9	11.1	-3.8	10.6	-10.1			
11/20/86	1200	11.1	-18.9	11.0	-8.7	10.9	-3.6	10.5	-10.3			
11/21/86	0	11.2	-18.8	11.1	-8.7	10.9	-3.9	10.5	-10.3			
11/21/86	1200	11.1	-18.7	11.0	-8.7	10.8	-3.9	10.3	-10.3			
11/22/86	0	11.2	-18.7	11.1	-8.6	10.9	-3.6	10.5	-10.3			
11/22/86	1200	11.1	-18.5	11.0	-8.8	10.8	-3.8	10.3	-10.2			
11/23/86	0	11.2	-18.7	11.1	-8.6	11.0	-4.0	10.6	-10.1			
11/23/86	1200	11.1	-18.5	11.0	-8.6	11.0	-3.8	10.6	-10.2			
11/24/86	0	11.2	-18.4	11.1	-8.7	11.0	-3.7	10.6	-10.3			
11/24/86	1200	11.0	-18.8	10.9	-8.7	10.9	-4.0	10.5	-10.4			
11/25/86	0	11.0	-18.3	11.0	-8.6	10.7	-3.8	10.2	-10.4			
11/25/86	1200	10.9	-18.6	10.9	-8.6	10.7	-3.8	10.3	-10.3			
11/26/86	0	11.0	-18.5	10.9	-8.6	10.6	-3.8	10.2	-10.2			
11/26/86	1200	11.0	-18.5	11.0	-8.5	10.9	-3.8	10.4	-10.2			
11/27/86	0	11.0	-18.3	11.0	-8.6	10.8	-3.9	10.4	-10.2			
11/27/86	1200	10.9	-18.5	10.9	-8.6	10.8	-3.7	10.4	-10.3			
11/28/86	0	11.1	-18.2	11.0	-8.5	10.9	-3.7	10.6	-10.2			
11/28/86	1200	11.0	-18.3	10.9	-8.8	10.9	-3.7	10.5	-10.1			
11/29/86	0	11.1	-18.3	11.0	-8.9	11.0	-4.1	10.6	-10.1			
11/29/86	1200	10.9	-18.3	10.9	-8.6	10.7	-3.9	10.3	-10.0			

Table 5.--Temperature and soil-water potential for undisturbed soil beneath the horizontal culvert at the east test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#25			tcp#23			tcp#22			tcp#30		
	3.8			4.1			4.4			5.0		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil-water potential (bars)
11/30/86	0	11.0	-18.4	10.9	-8.7	10.8	-4.0	10.4	-9.9	10.4	-9.9	-9.9
11/30/86	1200	10.9	-18.1	10.8	-8.4	10.8	-3.9	10.4	-9.5	10.4	-9.5	-9.5
12/01/86	0	11.0	-17.8	10.9	-8.4	10.8	-3.6	10.4	-9.4	10.4	-9.4	-9.4
12/01/86	1200	10.9	-18.1	10.9	-8.8	10.8	-3.8	10.4	-9.7	10.2	-9.7	-9.7
12/02/86	0	10.8	-18.2	10.8	-8.7	10.6	-4.0	10.5	-9.4	10.2	-9.4	-9.4
12/02/86	1200	10.9	-17.9	10.8	-8.5	10.8	-3.9	10.5	-9.3	10.2	-9.3	-9.3
12/03/86	0	10.8	-18.1	10.8	-8.5	10.6	-3.7	10.4	-9.3	10.2	-9.3	-9.3
12/03/86	1200	10.8	-17.9	10.8	-8.5	10.7	-3.7	10.4	-9.7	10.5	-9.7	-9.7
12/04/86	0	10.9	-18.2	10.9	-8.5	10.8	-3.8	10.5	-9.1	10.6	-9.1	-9.1
12/04/86	1200	10.8	-17.9	10.8	-8.7	10.9	-3.7	10.6	-9.5	10.6	-9.5	-9.5
12/05/86	0	10.9	-18.1	10.9	-8.8	10.9	-3.7	10.4	-9.5	10.4	-9.5	-9.5
12/05/86	1200	10.8	-17.9	10.8	-8.8	10.7	-3.7	10.4	-9.4	10.5	-9.4	-9.4
12/06/86	0	10.8	-18.0	10.8	-8.8	10.8	-3.8	10.5	-9.6	10.6	-9.6	-9.6
12/06/86	1200	10.9	-18.1	10.9	-8.6	10.9	-3.7	10.5	-9.8	10.5	-9.8	-9.8
12/07/86	0	10.9	-18.3	10.9	-8.7	10.8	-3.9	10.6	-9.6	10.2	-9.6	-9.6
12/07/86	1200	10.6	-18.0	10.7	-8.5	10.5	-3.8	10.2	-9.9	10.5	-9.9	-9.9
12/08/86	0	10.8	-18.3	10.8	-8.5	10.8	-4.1	10.3	-10.1	10.3	-10.1	-10.1
12/08/86	1200	10.6	-18.2	10.7	-8.8	10.6	-3.9	10.4	-9.8	10.2	-9.8	-9.8
12/09/86	0	10.8	-17.7	10.8	-8.5	10.7	-3.7	10.4	-9.9	10.2	-9.9	-9.9
12/09/86	1200	10.5	-18.1	10.6	-8.3	10.5	-3.5	10.3	-9.7	10.6	-9.7	-9.7
12/10/86	0	10.7	-18.1	10.7	-8.7	10.6	-3.8	10.3	-9.7	10.6	-9.7	-9.7
12/10/86	1200	10.8	-17.9	10.8	-8.5	10.9	-3.7	10.1	-9.7	10.5	-9.7	-9.7
12/11/86	0	10.6	-17.6	10.6	-8.4	10.4	-3.6	10.4	-10.0	10.4	-10.0	-10.0
12/11/86	1200	10.6	-17.7	10.6	-8.4	10.7	-3.6	10.5	-9.9	10.2	-9.9	-9.9
12/12/86	0	10.6	-17.9	10.7	-8.4	10.7	-3.7	10.4	-10.0	10.5	-10.0	-10.0
12/12/86	1200	10.5	-17.6	10.6	-8.3	10.5	-3.8	10.2	-9.9	10.5	-9.9	-9.9
12/13/86	0	10.6	-17.5	10.7	-8.3	10.7	-3.6	10.5	-10.0	10.3	-10.0	-10.0
12/13/86	1200	10.8	-17.6	10.9	-8.3	10.9	-3.7	10.7	-9.8	10.3	-9.8	-9.8
12/14/86	0	10.5	-17.6	10.6	-8.4	10.6	-3.7	10.3	-10.1	10.3	-10.1	-10.1
12/14/86	1200	10.4	-17.7	10.5	-8.5	10.5	-3.7	10.2	-10.1	10.3	-10.1	-10.1
12/15/86	0	10.4	-17.4	10.6	-8.4	10.5	-3.6	10.3	-10.0	10.3	-10.0	-10.0
12/15/86	1200	10.4	-17.4	10.5	-8.5	10.4	-3.8	10.1	-10.2	10.3	-10.2	-10.2
12/16/86	0	10.3	-17.3	10.5	-8.6	10.5	-3.8	10.3	-10.0	10.1	-10.0	-10.0
12/16/86	1200	10.3	-17.6	10.4	-8.6	10.5	-3.8	10.3	-10.0	10.1	-10.0	-10.0
12/17/86	0	10.3	-17.1	10.5	-8.4	10.3	-3.8	10.1	-10.2	10.2	-10.2	-10.2
12/17/86	1200	10.2	-17.2	10.4	-8.4	10.4	-3.8	10.2	-10.2	10.2	-10.2	-10.2

Table 5.--Temperature and soil-water potential for undisturbed soil beneath the horizontal culvert at the east test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#25 3.8			tcp#23 4.1			tcp#22 4.4			tcp#30 5.0		
	Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil-water potential (bars)
12/18/86	0		10.4	-17.3	10.5	-8.2	10.5	-3.6	10.3		-10.1	
12/18/86	1200		10.2	-17.3	10.4	-8.3	10.3	-3.7	10.1		-10.1	
12/19/86	0		10.3	-17.3	10.4	-8.3	10.4	-3.8	10.2		-9.8	
12/19/86	1200		10.3	-17.1	10.5	-8.3	10.6	-3.7	10.4		-10.1	
12/20/86	0		10.2	-17.3	10.4	-8.4	10.3	-3.8	10.1		-10.1	
12/20/86	1200		10.1	-17.1	10.3	-8.3	10.3	-3.8	10.1		-9.9	
12/21/86	0		10.1	-16.9	10.3	-8.1	10.3	-3.7	10.1		-10.1	
12/21/86	1200		10.2	-16.9	10.4	-8.1	10.5	-3.7	10.4		-10.0	
12/22/86	0		10.2	-16.6	10.4	-8.0	10.4	-3.8	10.2		-9.9	
12/22/86	1200		10.1	-16.4	10.3	-8.3	10.3	-3.8	10.1		-9.8	
12/23/86	0		10.2	-16.6	10.3	-8.4	10.5	-3.7	10.3		-9.9	
12/23/86	1200		9.9	-16.6	10.2	-8.1	10.3	-3.7	10.2		-9.9	
12/24/86	0		10.1	-16.8	10.3	-8.1	10.5	-3.6	10.4		-9.9	
12/24/86	1200		9.9	-16.5	10.2	-8.1	10.3	-3.6	10.2		-10.0	
12/25/86	0		9.9	-16.4	10.2	-8.1	10.1	-3.6	10.0		-9.9	
12/25/86	1200		9.8	-16.4	10.1	-8.3	10.1	-3.7	10.0		-9.9	
12/26/86	0		9.9	-16.2	10.2	-8.0	10.3	-3.5	10.2		-9.9	
12/26/86	1200		9.9	-16.1	10.2	-7.9	10.3	-3.6	10.2		-9.9	
12/27/86	0		9.9	-16.3	10.2	-8.0	10.2	-3.5	10.2		-10.0	
12/27/86	1200		9.8	-16.5	10.1	-8.1	10.3	-3.5	10.2		-9.7	
12/28/86	0		9.8	-16.3	10.1	-7.9	10.1	-3.6	10.1		-9.7	
12/28/86	1200		9.6	-16.1	10.0	-8.0	9.9	-3.7	9.9		-9.8	
12/29/86	0		9.6	-16.2	10.0	-7.8	10.0	-3.7	9.9		-9.8	
12/29/86	1200		9.5	-15.9	9.9	-8.0	9.9	-3.6	9.9		-9.7	
12/30/86	0		9.7	-16.0	10.0	-8.0	10.2	-3.6	10.2		-9.7	
12/30/86	1200		9.5	-16.0	9.8	-8.0	10.0	-3.6	10.0		-9.7	
12/31/86	0		9.7	-15.8	10.0	-7.9	10.2	-3.5	10.2		-9.8	
12/31/86	1200		9.5	-16.0	9.9	-7.9	10.0	-3.6	10.1		-9.7	

Table 6. --Temperature and soil-water potential for disturbed soil above the horizontal culvert at the east test trench

Sensor identifier Depth below land surface (meters)	tcp#29			tcp#28			tcp#26		
	0.5			0.8			0.9		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
10/25/86	0	8.7	-16.7	10.3	-20.3	11.5	-6.8		
10/25/86	1200	8.7	-16.1	10.2	-20.0	11.4	-6.7		
10/26/86	0	8.7	-15.9	10.3	-19.6	11.5	-6.5		
10/26/86	1200	8.6	-15.4	10.1	-19.5	11.3	-6.7		
10/27/86	0	8.6	-15.5	10.1	-19.3	11.4	-6.5		
10/27/86	1200	8.5	-14.8	9.9	-19.3	11.1	-6.4		
10/28/86	0	8.4	-14.9	9.9	-19.0	11.1	-6.6		
10/28/86	1200	8.4	-14.5	9.8	-18.9	11.1	-6.7		
10/29/86	0	8.3	-15.2	9.9	-18.9	11.2	-6.7		
10/29/86	1200	8.2	-15.1	9.8	-19.2	11.1	-6.7		
10/30/86	0	8.0	-16.1	9.8	-19.4	11.2	-6.6		
10/30/86	1200	7.9	-15.5	9.6	-19.6	11.1	-6.9		
10/31/86	0	7.9	-15.1	9.6	-19.4	11.1	-7.0		
10/31/86	1200	8.0	-14.8	9.7	-19.3	11.2	-6.8		
11/01/86	0	7.6	-15.9	9.6	-19.2	11.0	-6.9		
11/01/86	1200	7.4	-16.6	9.4	-19.3	10.9	-6.9		
11/02/86	0	7.2	-17.8	9.5	-19.6	11.1	-6.9		
11/02/86	1200	6.8	-17.8	9.3	-19.8	11.0	-7.1		
11/03/86	0	6.6	-18.2	9.3	-20.0	11.1	-7.0		
11/03/86	1200	6.4	-17.7	9.1	-20.5	11.0	-7.2		
11/04/86	0	6.0	-16.8	8.8	-20.5	10.7	-7.0		
11/04/86	1200	6.0	-16.5	8.7	-20.4	10.7	-7.3		
11/05/86	0	6.0	-15.8	8.7	-20.4	10.7	-7.3		
11/05/86	1200	5.9	-15.6	8.4	-20.4	10.5	-7.3		
11/06/86	0	5.9	-15.2	8.4	-20.2	10.4	-7.3		
11/06/86	1200	6.0	-13.7	8.3	-20.2	10.3	-7.4		
11/07/86	0	5.8	-13.3	8.1	-20.0	10.1	-7.4		
11/07/86	1200	5.9	-13.6	8.2	-20.1	10.2	-7.3		
11/08/86	0	5.6	-14.1	8.0	-20.1	9.9	-7.2		
11/08/86	1200	5.6	-14.3	8.0	-20.2	10.0	-7.2		
11/09/86	0	5.7	-13.5	8.1	-20.2	10.2	-6.6		
11/09/86	1200	5.5	-14.1	8.1	-20.5	10.1	-6.7		
11/10/86	0	5.1	-13.9	7.8	-20.8	9.7	-6.4		
11/10/86	1200	4.9	-14.0	7.6	-21.4	9.6	-6.5		
11/11/86	0	4.8	-14.3	7.7	-22.0	9.7	-6.5		
11/11/86	1200	4.5	-14.4	7.4	-22.7	9.5	-6.8		

Table 6.--Temperature and soil-water potential for disturbed soil above the horizontal culvert at the east test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#29				tcp#28				tcp#26			
	0.5				0.8				0.9			
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil-water potential (bars)
11/12/86	0	4.5	-14.0	7.5	-23.2	9.6	-6.8					
11/12/86	1200	4.3	-13.7	7.2	-23.7	9.4	-6.9					
11/13/86	0	4.1	-13.8	7.0	-24.0	9.3	-6.9					
11/13/86	1200	4.0	-13.6	7.0	-24.4	9.3	-6.9					
11/14/86	0	3.8	-13.6	6.9	-24.5	9.2	-7.1					
11/14/86	1200	3.7	-13.4	6.8	-24.8	9.0	-7.0					
11/15/86	0	3.5	-13.3	6.5	-25.2	8.9	-7.0					
11/15/86	1200	3.3	-12.9	6.4	-25.2	8.7	-7.1					
11/16/86	0	3.3	-12.5	6.4	-25.2	8.7	-7.1					
11/16/86	1200	3.4	-12.3	6.4	-25.2	8.7	-6.9					
11/17/86	0	3.5	-12.1	6.4	-25.3	8.7	-7.2					
11/17/86	1200	3.5	-11.6	6.3	-25.1	8.6	-7.1					
11/18/86	0	3.6	-11.1	6.2	-24.9	8.5	-7.3					
11/18/86	1200	3.7	-10.8	6.2	-24.6	8.4	-7.4					
11/19/86	0	3.8	-11.0	6.2	-24.5	8.4	-7.1					
11/19/86	1200	3.6	-10.8	6.1	-24.2	8.2	-7.2					
11/20/86	0	3.8	-10.4	6.2	-24.2	8.4	-7.4					
11/20/86	1200	3.8	-10.3	6.1	-24.2	8.2	-7.2					
11/21/86	0	3.8	-10.5	6.1	-24.2	8.2	-7.4					
11/21/86	1200	3.7	-10.5	6.0	-24.0	8.0	-7.5					
11/22/86	0	3.8	-10.3	6.1	-23.7	8.2	-7.4					
11/22/86	1200	3.7	-10.3	5.9	-23.7	7.9	-7.2					
11/23/86	0	3.9	-10.7	6.2	-23.6	8.3	-7.4					
11/23/86	1200	3.8	-11.0	6.2	-23.6	8.2	-7.5					
11/24/86	0	3.7	-11.1	6.2	-23.7	8.2	-7.5					
11/24/86	1200	3.5	-11.5	6.1	-24.1	8.1	-7.8					
11/25/86	0	3.2	-11.2	5.8	-24.0	7.8	-7.5					
11/25/86	1200	3.2	-11.0	5.8	-24.2	7.8	-7.6					
11/26/86	0	3.0	-11.0	5.6	-24.1	7.6	-7.5					
11/26/86	1200	3.1	-11.2	5.8	-24.6	7.9	-7.9					
11/27/86	0	3.0	-11.6	5.7	-24.4	7.8	-7.8					
11/27/86	1200	2.8	-11.5	5.6	-24.3	7.8	-7.7					
11/28/86	0	2.8	-11.7	5.6	-24.7	7.9	-7.8					
11/28/86	1200	2.6	-11.8	5.5	-24.9	7.7	-7.8					
11/29/86	0	2.6	-12.0	5.6	-25.0	7.8	-8.2					
11/29/86	1200	2.3	-11.4	5.2	-25.4	7.4	-8.0					

Table 6.--Temperature and soil-water potential for disturbed soil above the horizontal culvert at the east test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#29			tcp#28			tcp#26		
	0.5			0.8			0.9		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
11/30/86	0	2.4	-11.4	5.2	-25.0	7.5	-8.0		
11/30/86	1200	2.4	-11.0	5.2	-25.2	7.4	-7.8		
12/01/86	0	2.2	-11.4	5.1	-24.9	7.4	-7.9		
12/01/86	1200	2.1	-11.7	5.0	-25.1	7.3	-8.0		
12/02/86	0	1.6	-12.4	4.7	-25.2	7.0	-8.1		
12/02/86	1200	1.6	-12.3	4.9	-25.3	7.3	-7.9		
12/03/86	0	1.0	-12.5	4.5	-25.5	6.8	-7.9		
12/03/86	1200	1.0	-12.7	4.6	-25.8	7.0	-8.0		
12/04/86	0	0.8	-12.8	4.5	-26.3	7.0	-8.2		
12/04/86	1200	0.7	-12.2	4.4	-26.3	7.0	-8.0		
12/05/86	0	0.5	-12.2	4.3	-26.4	6.9	-7.6		
12/05/86	1200	0.3	-11.7	4.0	-26.8	6.7	-7.8		
12/06/86	0	0.4	-11.4	3.9	-26.9	6.7	-7.9		
12/06/86	1200	0.5	-10.7	4.0	-26.5	6.7	-7.8		
12/07/86	0	0.5	-10.3	3.8	-26.2	6.5	-8.2		
12/07/86	1200	0.4	-9.6	3.5	-26.2	6.1	-8.0		
12/08/86	0	0.6	-9.9	3.6	-25.8	6.3	-8.2		
12/08/86	1200	0.5	-9.6	3.4	-25.7	6.0	-8.1		
12/09/86	0	0.7	-9.0	3.6	-25.4	6.1	-7.8		
12/09/86	1200	0.5	-8.9	3.4	-25.3	5.9	-7.8		
12/10/86	0	0.4	-9.9	3.4	-25.0	5.9	-7.9		
12/10/86	1200	0.4	-10.2	3.7	-25.0	6.2	-8.1		
12/11/86	0	-0.3	-10.5	3.2	-25.4	5.7	-7.8		
12/11/86	1200	-0.3	-10.8	3.4	-25.6	5.9	-8.0		
12/12/86	0	-0.6	-10.9	3.2	-25.9	5.9	-8.1		
12/12/86	1200	-1.0	-10.8	2.9	-26.2	5.5	-8.0		
12/13/86	0	-1.0	-11.4	2.9	-26.4	5.7	-8.2		
12/13/86	1200	-1.0	-12.3	3.1	-26.5	5.9	-8.0		
12/14/86	0	-1.5	-14.0	2.4	-26.8	5.4	-8.0		
12/14/86	1200	-1.7	-13.9	2.3	-26.9	5.2	-8.2		
12/15/86	0	-1.8	-14.1	2.1	-26.8	5.0	-8.0		
12/15/86	1200	-1.8	-13.8	2.1	-26.8	5.1	-8.0		
12/16/86	0	-2.1	-14.4	1.8	-26.7	4.7	-8.3		
12/16/86	1200	-1.9	-14.5	1.9	-26.9	5.0	-8.3		
12/17/86	0	-2.2	-14.5	1.7	-26.7	4.6	-8.1		
12/17/86	1200	-2.2	-14.7	1.6	-26.7	4.6	-8.2		

Table 6.--Temperature and soil-water potential for disturbed soil above the horizontal culvert at the east test trench--Continued

Sensor identifier Depth below land surface (meters)	tcp#29			tcp#28			tcp#26		
	0.5			0.8			0.9		
Date	Hour	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)	Soil temperature (Celsius)	Soil-water potential (bars)
12/18/86	0	-2.2	-15.5	1.7	-26.4	4.7	-8.2		
12/18/86	1200	-2.4	-16.0	1.5	-26.5	4.4	-8.2		
12/19/86	0	-2.6	-16.7	1.4	-26.4	4.2	-8.1		
12/19/86	1200	-2.5	-17.1	1.5	-26.3	4.3	-7.9		
12/20/86	0	-2.8	-17.6	1.1	-26.3	4.0	-8.0		
12/20/86	1200	-2.9	-16.9	1.1	-26.0	3.8	-8.3		
12/21/86	0	-2.9	-16.6	0.9	-25.8	3.7	-8.0		
12/21/86	1200	-2.7	-16.3	1.1	-25.9	3.9	-8.0		
12/22/86	0	-2.9	-17.0	0.9	-25.5	3.6	-8.0		
12/22/86	1200	-3.0	-16.8	0.6	-25.4	3.4	-7.7		
12/23/86	0	-3.0	-17.7	0.8	-25.2	3.5	-7.9		
12/23/86	1200	-3.1	-17.1	0.6	-25.4	3.3	-7.8		
12/24/86	0	-3.0	-17.0	0.6	-25.1	3.4	-8.0		
12/24/86	1200	-3.1	-17.1	0.5	-25.1	3.1	-7.9		
12/25/86	0	-3.3	-17.5	0.3	-25.1	2.9	-8.0		
12/25/86	1200	-3.4	-17.4	0.1	-25.0	2.7	-8.0		
12/26/86	0	-3.2	-17.5	0.3	-24.8	2.9	-8.1		
12/26/86	1200	-3.1	-16.7	0.3	-24.7	2.9	-7.9		
12/27/86	0	-3.1	-16.0	0.2	-24.6	2.8	-8.1		
12/27/86	1200	-2.9	-15.7	0.3	-24.5	2.8	-7.8		
12/28/86	0	-3.1	-16.1	0.0	-24.6	2.6	-7.8		
12/28/86	1200	-3.3	-16.3	-0.1	-24.2	2.3	-8.1		
12/29/86	0	-3.5	-17.5	-0.2	-24.4	2.3	-7.7		
12/29/86	1200	-3.7	-18.4	-0.3	-24.1	2.1	-8.1		
12/30/86	0	-3.6	-19.2	-0.0	-24.3	2.4	-8.0		
12/30/86	1200	-3.8	-19.4	-0.2	-24.1	2.2	-8.2		
12/31/86	0	-3.7	-19.4	-0.1	-24.1	2.4	-8.2		
12/31/86	1200	-3.8	-19.8	-0.3	-24.1	2.2	-8.1		

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Table 7.--Volumetric moisture content of soils at neutron-probe access hole 1
[Moisture content in percent volume]

DATE	Depth below land-surface, in meters										
	0.15	0.30	0.46	0.61	0.76	0.91	1.22	1.52	1.83	2.13	2.44
04/17/85	--	31.7	--	33.3	--	33.5	33.0	31.0	32.0	32.3	33.3
04/19/85	--	30.6	--	32.4	--	32.7	32.3	30.6	30.9	31.9	32.3
04/22/85	--	30.4	--	32.6	--	32.3	32.3	30.5	31.1	32.2	33.0
04/26/85	--	30.2	--	32.3	--	32.5	31.8	29.8	30.8	32.1	33.1
05/02/85	--	30.2	--	31.8	--	31.5	31.1	29.8	30.4	31.9	33.0
05/09/85	--	30.0	--	31.4	--	31.2	31.0	29.0	30.6	32.0	33.5
05/17/85	19.2	29.6	--	31.1	--	30.4	29.9	29.0	29.8	31.9	33.0
05/23/85	18.0	29.0	--	31.1	--	29.9	29.8	28.8	30.6	31.9	32.8
05/30/85	16.1	28.8	--	30.6	--	29.1	29.1	28.7	29.7	31.6	32.8
06/07/85	14.5	27.1	--	29.0	--	27.5	27.6	27.4	29.2	31.6	32.8
06/13/85	12.4	26.9	--	29.3	--	26.9	28.3	27.5	29.3	32.0	32.5
06/20/85	11.1	26.0	--	29.2	--	27.1	28.4	27.8	30.3	32.3	33.4
06/27/85	12.2	24.0	--	26.3	--	25.2	26.5	26.4	28.7	31.1	31.8
07/05/85	10.0	22.6	--	25.1	--	23.5	25.6	26.6	28.6	30.2	31.9
07/12/85	8.5	19.7	--	23.3	--	22.5	24.5	25.7	29.4	33.1	31.4
07/19/85	8.4	19.2	--	23.5	--	23.5	25.9	27.5	28.8	31.6	32.5
07/26/85	8.4	17.7	--	22.0	--	21.8	24.3	25.5	28.7	31.0	32.5
08/02/85	10.0	16.8	--	20.4	--	20.8	23.4	25.1	28.3	30.9	31.9
08/09/85	7.8	16.1	--	19.8	--	20.1	23.2	24.2	27.0	30.1	31.6
08/16/85	7.4	15.5	--	19.8	--	20.6	23.6	25.8	28.7	31.4	32.4
08/23/85	5.9	13.4	--	17.6	--	18.4	21.7	23.2	26.8	30.3	32.3
08/30/85	6.0	13.3	--	19.8	--	18.8	21.9	23.8	27.1	30.2	31.6
09/06/85	5.1	11.4	--	15.1	--	16.6	19.6	21.3	24.8	27.2	29.3
09/13/85	12.7	13.1	--	15.8	--	17.4	20.7	23.0	26.4	28.9	31.0
09/20/85	10.8	13.4	--	15.6	--	17.5	20.6	22.5	26.0	29.3	30.7
09/27/85	9.4	13.4	--	20.5	--	20.0	20.2	22.9	26.0	29.2	30.5
10/08/85	9.6	13.5	--	17.1	--	18.1	21.1	24.2	26.0	29.4	31.4
10/11/85	9.3	13.2	--	15.6	--	18.3	20.7	22.7	26.7	28.9	30.7
10/18/85	12.0	17.1	--	19.1	--	21.9	24.1	26.6	30.7	34.1	36.1
10/25/85	10.0	14.3	--	16.3	--	18.0	21.2	23.1	25.8	29.8	31.5
11/01/85	8.4	12.4	--	13.9	--	15.9	18.9	21.3	23.2	26.2	28.0
12/03/85	11.6	14.8	--	16.6	--	18.0	21.0	22.8	26.1	28.8	30.9
02/20/86	29.9	33.0	--	32.2	--	29.4	22.7	21.8	24.3	27.8	29.9
02/28/86	32.5	34.3	--	34.2	--	34.7	33.3	30.2	28.1	28.7	30.4
03/06/86	24.7	31.4	--	32.5	--	33.4	32.6	29.9	31.1	31.4	31.7
03/14/86	25.1	31.4	--	32.1	--	32.6	32.7	30.9	31.4	33.0	33.2
03/20/86	24.7	31.6	--	32.5	--	32.7	32.0	30.3	31.6	33.7	33.8
03/28/86	22.1	30.4	--	32.0	--	31.9	32.1	30.1	31.6	33.0	34.0
04/02/86	23.1	30.1	--	31.9	--	31.8	31.6	29.9	31.0	32.2	33.4
04/11/86	22.1	30.0	--	31.4	--	31.1	31.3	29.3	30.6	32.4	34.1
04/18/86	21.6	29.9	--	31.8	--	30.9	31.0	29.3	38.6	32.8	33.7
04/25/86	20.3	29.1	--	30.8	--	29.9	30.5	28.6	30.3	32.9	34.0
05/02/86	19.0	28.9	--	30.7	--	29.2	29.7	27.7	29.5	31.7	32.8
05/08/86	23.1	29.7	--	30.7	--	29.5	30.5	28.7	30.5	32.6	33.4
05/15/86	21.1	29.8	31.5	31.4	29.7	29.9	29.9	28.8	30.3	32.2	33.1
05/22/86	19.0	29.7	32.5	31.4	30.0	30.1	29.9	28.4	30.3	32.5	33.2
06/04/86	12.2	25.8	28.7	27.9	26.6	26.7	27.6	28.0	29.2	31.5	32.4
06/12/86	14.2	25.5	28.8	28.1	26.6	26.4	27.2	27.2	29.5	31.4	32.8
06/19/86	13.3	24.0	27.3	26.2	24.6	25.1	26.1	26.2	28.1	30.7	31.4
06/26/86	9.3	21.7	26.5	24.7	23.7	25.6	27.6	28.0	29.9	31.5	32.4
07/02/86	8.9	20.7	25.9	25.0	24.2	24.1	26.3	26.4	29.2	32.0	33.3
07/11/86	8.3	19.4	23.5	22.0	21.3	21.7	23.8	24.8	28.3	31.2	32.6
07/18/86	7.3	16.9	21.3	20.6	20.2	21.1	23.9	24.9	28.1	31.3	33.2
08/01/86	7.7	15.4	19.3	18.9	19.2	20.1	23.1	24.9	28.3	31.5	33.7
08/30/86	5.8	11.6	13.2	13.7	14.2	15.9	19.6	22.6	26.1	29.9	32.0
09/12/86	8.0	11.7	12.3	12.6	13.5	15.3	18.9	21.5	25.7	29.5	31.7
09/26/86	7.7	11.9	12.8	12.3	13.8	15.3	19.2	22.4	25.2	29.8	32.1
10/20/86	8.9	12.3	13.0	12.6	13.6	15.5	19.3	21.5	26.1	29.9	31.7
11/19/86	9.1	12.4	13.3	12.9	13.9	15.7	19.0	21.8	25.5	29.8	31.2
12/04/86	9.8	12.8	12.8	12.5	13.5	15.1	19.1	21.4	25.2	29.3	31.0

Table 7.--Volumetric moisture content of soils at neutron-probe access hole 1--Continued
[Moisture content in percent volume]

DATE	Depth below land-surface, in meters									
	2.74	3.05	3.35	3.66	3.96	4.27	4.57	4.88	5.18	5.46
04/17/85	26.7	20.0	25.5	24.6	22.6	25.6	24.8	26.1	20.5	19.3
04/19/85	28.5	19.6	25.3	24.0	23.4	25.2	24.4	26.6	20.2	19.5
04/22/85	29.6	20.5	25.5	23.9	22.9	25.2	24.5	26.4	20.2	19.2
04/26/85	30.0	23.2	25.5	24.2	23.2	25.7	25.0	26.7	21.2	19.6
05/02/85	30.1	27.6	25.7	24.4	22.8	25.0	24.4	26.3	20.6	19.7
05/09/85	29.6	27.3	26.3	25.7	23.7	27.0	25.1	26.1	21.9	19.3
05/17/85	29.7	27.6	26.6	24.4	22.7	25.2	24.5	26.6	20.7	19.5
05/23/85	30.1	27.6	26.7	24.3	22.7	25.2	24.9	26.3	20.7	19.6
05/30/85	29.6	27.3	27.0	24.4	22.8	25.5	24.5	26.2	20.4	19.6
06/07/85	29.9	27.1	27.2	24.2	22.8	25.5	24.0	26.4	20.1	18.9
06/13/85	29.9	27.9	28.0	24.8	23.3	25.6	24.4	26.4	19.9	19.6
06/20/85	31.0	28.3	29.3	25.1	23.5	26.2	25.0	27.3	21.0	19.9
06/27/85	29.4	27.4	28.6	24.3	23.1	25.3	24.2	26.1	20.3	19.4
07/05/85	28.9	27.2	28.1	24.3	22.4	24.9	23.9	26.2	20.2	19.1
07/12/85	29.3	27.0	28.7	24.9	23.0	25.3	24.5	26.5	20.7	19.6
07/19/85	30.6	28.1	30.1	26.1	23.8	26.3	25.3	26.9	21.2	20.0
07/26/85	29.8	29.0	29.5	25.8	23.5	27.5	24.8	26.6	20.9	20.3
08/02/85	29.8	29.8	30.2	25.8	23.9	27.5	26.3	28.3	21.3	20.5
08/09/85	28.8	27.0	28.3	27.1	24.2	25.6	24.3	26.4	21.8	20.4
08/16/85	29.9	28.0	29.9	25.9	23.7	26.6	25.6	26.9	21.1	20.0
08/23/85	28.3	26.1	27.2	23.3	21.1	26.1	23.3	26.4	20.6	18.3
08/30/85	29.1	27.2	29.3	25.5	24.3	26.3	24.7	26.7	20.8	19.6
09/06/85	26.6	24.8	26.5	23.2	21.0	23.4	22.7	24.1	19.1	17.7
09/13/85	28.7	26.5	28.4	25.1	22.6	25.5	24.2	26.2	20.0	19.3
09/20/85	28.2	26.5	28.1	25.1	22.1	24.8	24.3	25.8	20.4	19.2
09/27/85	28.2	25.8	28.1	25.2	22.3	24.6	24.0	25.7	20.0	18.8
10/08/85	29.1	27.4	28.9	25.9	23.1	26.3	25.4	26.7	21.3	19.8
10/11/85	28.5	26.4	29.2	25.1	23.1	25.3	24.6	28.0	20.7	19.9
10/18/85	33.6	31.7	33.7	30.2	26.5	30.5	28.6	30.6	24.7	22.8
10/25/85	28.8	27.3	28.1	26.0	23.0	25.9	24.6	26.5	20.7	19.9
11/01/85	25.4	24.3	25.7	23.3	20.5	23.0	21.9	23.3	18.3	17.6
12/03/85	28.9	26.4	28.4	26.0	23.4	26.3	24.8	26.2	20.5	20.0
02/20/86	26.9	25.0	27.2	25.0	21.5	24.9	23.8	24.5	19.7	18.6
02/28/86	27.9	25.5	27.7	25.7	22.8	25.3	24.8	25.6	20.4	19.6
03/06/86	27.5	25.3	27.6	25.6	22.5	25.3	24.5	25.9	20.2	19.6
03/14/86	29.5	26.2	28.7	26.2	22.6	26.1	25.2	26.2	20.4	19.6
03/20/86	30.1	27.9	28.9	26.0	22.6	25.9	24.6	26.2	20.4	19.5
03/28/86	31.6	28.7	29.3	26.2	22.7	25.5	24.3	25.9	20.4	19.7
04/02/86	30.4	28.2	30.0	25.4	23.5	25.4	24.8	26.1	20.4	19.1
04/11/86	30.1	29.0	30.6	26.7	22.9	26.1	24.3	25.9	20.7	19.4
04/18/86	30.6	28.8	30.9	27.8	23.3	26.0	24.9	26.1	20.6	19.7
04/25/86	30.7	29.2	30.4	28.2	23.1	25.4	24.2	25.9	20.2	19.6
05/02/86	29.6	28.2	30.1	28.0	22.4	25.6	24.6	26.0	19.6	18.7
05/08/86	30.6	28.8	30.7	29.1	23.5	26.2	24.7	26.6	21.3	19.5
05/15/86	30.7	29.0	31.0	29.4	23.4	25.6	24.5	26.4	20.4	19.7
05/22/86	30.6	28.9	31.2	29.4	23.2	26.1	24.7	26.4	21.2	19.7
06/04/86	29.5	28.2	29.3	28.2	23.2	24.8	23.8	25.3	19.7	18.3
06/12/86	29.6	29.3	30.7	29.8	23.3	24.7	23.8	25.7	20.9	19.3
06/19/86	28.6	27.5	30.1	29.1	22.7	24.4	23.3	25.3	19.8	19.0
06/26/86	29.2	27.9	30.0	28.8	23.2	25.3	24.1	25.4	20.8	19.2
07/02/86	30.6	28.8	31.3	30.2	24.5	26.1	25.0	26.3	20.8	19.8
07/11/86	29.7	27.9	30.3	29.5	23.7	25.9	24.7	25.6	20.5	19.3
07/18/86	30.3	28.7	31.4	29.8	24.6	26.5	24.4	26.5	21.2	19.7
08/01/86	30.6	29.1	31.7	30.0	25.2	26.8	25.0	26.4	20.9	20.3
08/30/86	29.6	27.6	29.9	29.1	25.2	25.8	24.8	25.8	20.1	19.6
09/12/86	28.7	27.5	30.0	28.4	25.0	25.6	24.1	25.8	20.1	19.4
09/26/86	29.4	27.8	30.1	29.1	25.2	25.9	24.6	26.1	20.3	19.7
10/20/86	29.0	28.0	29.7	29.2	25.3	26.2	24.4	26.6	20.5	19.3
11/19/86	28.8	27.3	29.6	28.8	25.7	26.5	24.6	25.7	20.7	19.5
12/04/86	29.0	27.3	30.0	28.8	25.2	26.1	24.2	26.0	20.1	19.6

Table 8.--Volumetric moisture content of soils at neutron-probe access hole 2
[Moisture content in percent volume]

DATE	Depth below land surface, in meters										
	0.15	0.30	0.46	0.61	0.76	0.91	1.22	1.52	1.83	2.13	2.44
04/18/85	--	30.6	--	33.0	--	32.1	32.3	30.0	26.7	24.8	26.1
04/19/85	--	30.3	--	32.6	--	31.6	32.1	29.1	26.4	25.0	26.2
04/22/85	--	30.0	--	32.4	--	31.2	31.3	28.9	26.1	25.5	25.8
04/26/85	--	29.2	--	31.9	--	30.7	30.6	28.5	26.4	25.7	25.8
05/02/85	--	29.2	--	31.7	--	30.0	30.1	28.3	26.2	25.2	26.1
05/09/85	--	28.3	--	30.7	--	29.1	28.6	27.0	25.8	25.3	25.6
05/17/85	22.6	28.9	--	31.1	--	28.9	28.2	27.4	25.5	25.8	26.5
05/23/85	21.3	28.3	--	31.2	--	28.9	27.8	26.8	25.5	25.4	26.7
05/30/85	19.6	27.5	--	30.1	--	27.7	27.1	26.5	25.4	24.9	27.4
06/07/85	18.2	28.0	--	29.1	--	26.6	26.0	26.5	24.7	24.9	26.2
06/13/85	15.4	25.4	--	29.0	--	25.6	25.4	26.0	24.9	25.3	27.3
06/20/85	12.7	24.5	--	29.3	--	25.7	25.2	26.8	25.6	26.4	27.7
06/27/85	13.2	21.9	--	26.1	--	23.2	22.7	24.8	24.4	24.8	27.0
07/05/85	10.3	19.4	--	25.1	--	21.2	21.6	24.4	24.5	24.3	27.6
07/12/85	8.3	16.9	--	22.9	--	20.1	20.3	23.9	24.1	24.9	27.2
07/19/85	10.1	19.2	--	24.2	--	20.0	20.9	24.5	24.5	25.3	28.1
07/26/85	9.7	15.9	--	22.1	--	19.2	20.3	24.1	24.7	25.0	28.3
08/01/85	9.2	14.8	--	18.4	--	16.7	17.4	21.1	22.2	22.8	25.7
08/09/85	9.8	15.3	--	20.0	--	17.3	19.3	23.1	23.8	24.7	28.1
08/16/85	8.6	15.1	--	19.7	--	17.8	18.9	23.6	24.0	24.7	28.3
08/23/85	6.7	12.4	--	17.6	--	16.2	17.7	22.2	22.3	23.0	25.9
09/06/85	5.9	11.4	--	15.4	--	14.1	16.0	20.4	21.3	21.9	25.1
09/13/85	15.7	12.5	--	16.1	--	15.3	17.0	21.9	22.7	23.4	27.2
09/20/85	13.5	12.9	--	16.4	--	15.4	17.0	21.7	22.5	23.3	27.0
09/27/85	11.9	13.3	--	16.4	--	15.0	16.6	21.2	22.2	23.1	27.2
10/03/85	12.0	13.0	--	16.5	--	15.8	17.2	22.0	22.3	23.8	27.8
10/11/85	11.6	13.7	--	16.4	--	15.6	16.7	21.4	22.6	23.2	27.3
10/18/85	13.6	16.6	--	20.0	--	19.0	20.3	24.8	26.2	27.5	31.9
10/25/85	12.1	13.7	--	16.7	--	15.7	17.1	21.6	22.4	23.5	27.8
11/01/85	10.0	11.7	--	14.4	--	13.4	14.1	19.1	19.8	21.0	24.8
11/08/85	11.5	14.2	--	16.5	--	15.4	16.4	21.4	22.6	23.3	28.2
12/03/85	13.6	14.5	--	16.6	--	15.7	16.3	21.1	22.1	23.1	27.2
02/20/86	27.4	24.4	--	15.8	--	14.7	15.4	19.9	20.5	21.3	26.0
02/28/86	31.0	32.6	--	31.8	--	26.8	16.5	21.1	21.5	22.5	27.2
03/06/86	26.1	30.4	--	30.7	--	27.9	22.8	21.1	21.7	22.6	26.8
03/14/86	26.8	30.9	--	31.5	--	28.5	25.0	23.7	22.1	22.7	27.0
03/20/86	26.9	30.1	--	31.3	--	28.7	25.9	25.6	22.2	22.7	27.6
03/28/86	25.2	31.1	--	31.9	--	28.0	25.8	25.4	22.9	24.3	28.9
04/02/86	25.1	28.9	--	30.1	--	27.9	25.6	25.8	23.5	22.9	27.0
04/11/86	24.7	29.2	--	30.8	--	27.5	26.1	25.7	24.2	23.3	26.8
04/18/86	24.1	29.6	--	30.0	--	28.0	26.7	26.3	25.5	25.3	27.6
05/02/86	19.8	28.0	28.8	31.0	29.2	27.1	25.3	24.9	23.5	25.2	26.6
05/08/86	25.2	29.0	29.6	30.4	28.6	26.8	25.4	25.5	24.0	24.9	27.1
05/15/86	23.7	29.0	30.3	30.5	28.7	27.6	25.5	25.5	24.2	24.2	27.1
05/22/86	20.0	27.9	29.8	29.2	27.9	27.1	25.3	26.1	24.2	24.6	27.4
06/04/86	12.8	23.8	26.0	26.5	25.5	24.5	23.4	24.1	22.9	23.1	26.6
06/12/86	11.1	23.8	26.6	27.0	25.6	24.1	23.4	25.1	24.1	24.2	27.4
06/19/86	13.6	22.8	25.6	26.4	24.5	23.1	22.3	24.0	23.8	23.1	26.3
06/26/86	12.3	21.7	24.8	25.8	24.0	22.5	22.7	24.2	23.7	24.7	27.6
07/02/86	11.1	20.1	24.0	25.9	23.5	21.9	22.6	24.4	24.3	24.4	28.4
07/11/86	9.0	17.4	22.4	23.9	21.8	20.3	21.3	24.1	23.3	24.4	27.9
07/18/86	8.2	15.7	19.3	21.2	19.6	19.0	19.8	23.7	23.6	23.6	28.0
08/01/86	8.2	14.5	19.5	20.4	19.2	18.5	19.1	24.0	23.9	24.3	27.6
08/30/86	7.3	12.3	15.3	17.3	17.0	16.1	17.3	22.0	23.2	23.1	26.3
09/12/86	5.9	10.9	11.7	12.6	12.5	13.1	15.7	20.8	22.6	23.1	26.9
09/26/86	8.6	11.0	11.2	12.0	12.6	12.1	15.5	21.4	21.9	23.7	27.4
10/20/86	8.4	10.9	11.4	12.2	11.7	12.6	15.5	20.5	22.4	22.8	27.4
11/19/86	9.1	11.1	11.6	12.2	12.2	13.1	15.1	20.0	22.1	22.7	27.5
12/04/86	10.0	11.7	11.5	12.3	12.2	12.3	14.9	20.2	21.4	22.7	27.6

Table 8.--Volumetric moisture content of soils at neutron-probe access hole 2--Continued
[Moisture content in percent volume]

DATE	Depth below land surface, in meters										
	2.74	3.05	3.35	3.66	3.96	4.27	4.57	4.88	5.18	5.49	5.73
04/18/85	23.7	20.5	24.1	24.4	24.3	23.7	25.9	23.8	19.8	19.7	17.2
04/19/85	23.3	20.3	24.4	24.3	23.9	23.4	25.9	23.6	19.3	19.5	17.0
04/22/85	23.3	19.9	24.3	24.4	24.1	23.4	25.6	24.0	19.6	19.7	17.1
04/26/85	23.1	20.8	24.0	24.2	24.3	23.6	25.7	24.0	19.6	19.6	17.7
05/02/85	23.1	20.2	24.2	24.1	24.0	23.3	25.4	23.5	19.5	19.8	17.0
05/09/85	23.0	20.3	24.3	24.1	24.1	23.5	25.4	23.3	19.4	19.3	17.2
05/17/85	23.0	20.3	24.3	24.3	24.3	23.6	25.5	24.0	19.4	19.3	17.4
05/23/85	23.1	20.7	24.0	24.3	24.5	23.5	25.4	23.7	19.6	19.6	17.3
05/30/85	23.1	20.7	24.4	24.2	24.4	23.1	25.6	23.8	19.6	19.8	17.6
06/07/85	23.9	20.1	24.4	23.9	24.5	23.2	25.5	23.2	19.8	19.7	16.8
06/13/85	23.6	21.3	24.6	24.3	26.0	24.1	25.9	24.4	19.9	19.7	17.9
06/20/85	25.8	22.1	26.9	25.5	24.9	24.0	26.3	24.5	20.0	20.0	18.2
06/27/85	23.3	20.3	24.2	24.1	23.8	23.5	25.4	23.7	19.6	19.7	17.4
07/05/85	23.2	20.8	24.3	24.2	24.0	23.6	25.9	23.9	20.1	19.7	17.3
07/12/85	23.2	25.6	24.0	24.3	25.6	23.2	25.8	23.2	19.6	20.8	18.6
07/19/85	23.8	21.2	24.7	24.9	25.3	24.7	26.3	24.4	20.2	19.7	17.7
07/26/85	23.8	22.4	27.3	24.8	24.8	24.8	26.4	24.8	21.2	21.1	18.1
08/01/85	21.8	19.3	23.0	23.3	23.2	22.5	23.6	22.2	19.0	18.8	16.3
08/09/85	24.0	20.3	23.8	27.5	26.0	24.8	26.8	24.8	21.6	20.5	18.4
08/16/85	24.1	21.0	25.8	26.2	26.1	25.7	29.4	24.5	20.3	19.7	18.3
08/23/85	22.0	19.4	23.0	22.8	22.1	21.9	24.2	21.9	18.2	18.5	15.8
09/06/85	21.5	19.0	22.6	22.6	21.8	21.8	23.5	21.7	18.0	17.7	16.0
09/13/85	23.2	20.5	23.8	24.1	23.6	23.6	25.3	23.4	19.5	19.4	17.6
09/20/85	23.5	20.3	24.5	24.0	23.9	23.4	25.6	23.1	18.9	19.4	17.8
09/27/85	23.3	20.2	23.9	23.9	23.7	23.2	25.2	23.6	19.4	19.2	17.2
10/03/85	24.2	20.9	25.1	24.5	24.4	24.1	25.7	23.8	19.8	20.0	17.5
10/11/85	23.8	20.9	24.4	24.2	23.6	23.9	25.9	24.1	19.8	20.0	17.5
10/18/85	27.8	25.1	29.0	28.9	27.8	28.3	30.7	28.4	23.3	24.3	20.9
10/25/85	23.5	20.7	24.5	24.3	24.1	24.1	26.1	24.4	19.8	20.1	17.9
11/01/85	21.0	18.4	21.7	22.1	21.4	21.8	22.9	21.6	17.5	17.4	15.8
11/08/85	23.7	21.1	24.6	24.9	24.2	24.3	25.7	23.7	19.5	20.1	18.3
12/03/85	23.8	21.0	24.2	24.4	24.6	24.1	26.0	24.1	20.1	20.1	17.9
02/20/86	22.3	19.6	23.0	23.1	22.4	22.8	24.9	23.4	18.7	19.3	17.1
02/28/86	23.8	20.7	24.1	24.4	23.8	23.5	25.9	24.2	19.9	20.0	17.7
03/06/86	23.0	20.5	24.3	24.1	23.4	24.1	25.4	23.6	19.6	19.9	17.6
03/14/86	24.0	20.7	24.2	24.3	23.7	24.5	26.2	23.9	19.6	19.9	17.8
03/20/86	23.7	21.1	24.2	24.6	23.8	24.7	26.1	23.8	20.0	19.4	17.6
03/28/86	24.8	22.7	25.6	24.6	24.0	24.2	26.2	24.1	19.7	20.0	18.2
04/02/86	23.9	20.9	24.3	23.5	23.7	23.4	25.5	23.7	19.2	19.6	17.7
04/11/86	22.9	21.0	24.1	23.8	23.5	24.2	25.9	24.0	19.5	19.5	17.5
04/18/86	23.7	21.2	24.4	24.7	24.0	24.3	26.0	24.2	19.6	19.8	18.0
05/02/86	23.3	20.5	24.1	24.0	22.7	23.4	24.8	23.8	19.7	19.4	17.2
05/08/86	23.6	20.7	24.5	25.1	24.0	23.9	25.8	24.0	20.1	19.8	18.0
05/15/86	23.4	21.0	24.7	24.6	23.5	24.1	26.0	23.8	19.7	19.9	17.8
05/22/86	23.4	20.4	24.9	24.6	24.5	24.5	25.6	24.1	19.8	20.1	17.6
06/04/86	22.6	20.6	23.5	24.1	23.1	23.5	25.3	24.1	19.6	19.1	16.9
06/12/86	23.8	20.5	24.9	24.8	24.3	23.2	26.3	24.1	20.3	20.5	18.0
06/19/86	22.9	19.7	23.2	23.1	24.0	23.0	24.4	23.2	20.4	20.2	17.9
06/26/86	23.7	20.5	24.8	24.4	23.3	23.8	25.5	23.3	19.8	19.9	18.1
07/02/86	23.7	22.0	24.9	25.2	24.4	23.9	25.6	23.8	20.3	20.6	18.5
07/11/86	23.2	21.4	24.5	24.7	23.5	23.2	25.4	23.3	19.6	19.1	17.2
07/18/86	24.1	21.9	25.4	25.1	24.4	24.4	26.5	24.8	19.7	20.2	18.3
08/01/86	24.4	22.0	25.2	25.2	24.9	24.6	26.2	24.9	20.1	20.1	19.1
08/30/86	23.4	20.3	24.1	23.5	23.1	23.3	25.4	22.8	19.0	18.3	17.0
09/12/86	23.7	20.5	24.3	23.6	23.2	23.4	25.3	23.4	19.2	19.4	16.9
09/26/86	23.4	20.9	24.5	24.2	23.8	23.8	25.8	23.4	19.5	19.2	17.6
10/20/86	23.8	20.5	24.6	24.5	23.5	24.2	25.3	23.5	19.6	19.5	17.2
11/19/86	23.5	21.1	24.5	24.3	24.2	23.8	25.5	23.8	19.4	19.5	17.9
12/04/86	23.7	20.7	24.7	23.9	23.7	23.7	25.8	23.7	19.7	19.2	17.4

Table 9.--Volumetric moisture content of soils at neutron-probe access hole 3
[Moisture content in percent volume]

DATE	Depth below land surface, in meters									
	0.15	0.30	0.46	0.61	0.76	0.91	1.22	1.52	1.83	2.13
04/17/85	--	30.2	--	33.0	--	32.4	31.5	28.4	27.1	25.1
04/19/85	--	30.6	--	32.8	--	31.9	30.9	27.9	26.7	25.7
04/26/85	--	29.2	--	32.2	--	30.8	29.2	28.0	26.6	26.9
05/02/85	--	29.0	--	32.6	--	29.9	28.8	27.8	26.3	27.0
05/09/85	--	28.7	--	31.9	--	29.3	28.2	27.4	26.2	26.4
05/17/85	20.5	28.5	--	32.1	--	28.9	27.8	27.4	26.3	26.2
05/23/85	18.9	27.9	--	32.1	--	28.0	27.5	26.9	25.7	26.3
05/30/85	16.3	27.4	--	31.5	--	27.4	26.9	26.9	26.0	26.2
06/07/85	14.2	26.5	--	30.9	--	26.1	26.1	26.5	26.1	25.8
06/13/85	11.5	25.9	--	31.0	--	25.8	26.1	25.9	25.6	26.5
06/20/85	10.4	25.2	--	31.2	--	25.3	26.2	26.8	26.2	27.6
06/27/85	11.5	22.5	--	29.3	--	23.2	23.8	25.8	25.2	25.9
07/05/85	8.8	20.3	--	27.9	--	21.3	23.0	25.3	25.3	25.3
07/12/85	7.6	18.1	--	26.7	--	19.7	22.2	24.5	24.5	25.2
07/19/85	8.4	18.0	--	26.7	--	20.4	24.7	26.8	26.7	27.5
07/26/85	9.4	17.3	--	25.6	--	18.8	22.5	25.3	25.6	25.9
08/01/85	9.3	16.5	--	25.8	--	19.2	23.2	26.5	26.9	27.8
08/09/85	7.8	15.1	--	23.2	--	16.8	20.9	23.7	24.7	25.1
08/16/85	7.7	15.3	--	23.7	--	16.7	20.9	24.6	27.3	28.3
08/23/85	6.5	13.4	--	20.5	--	14.9	19.2	22.3	22.8	23.7
08/30/85	7.0	15.2	--	21.4	--	15.2	20.1	24.3	24.7	26.4
09/06/85	6.1	12.3	--	18.2	--	13.5	18.0	21.7	22.0	23.1
09/13/85	17.1	14.4	--	19.8	--	14.7	19.3	22.8	23.7	24.8
09/20/85	12.9	14.4	--	19.9	--	14.5	19.1	23.2	23.6	25.1
09/27/85	11.9	14.1	--	19.4	--	14.6	18.9	22.4	23.1	24.7
10/03/85	11.8	15.0	--	20.2	--	15.2	19.2	23.2	24.4	24.9
10/11/85	11.6	14.6	--	20.2	--	14.6	19.2	23.7	23.8	25.1
10/18/85	13.5	17.6	--	23.9	--	17.7	23.0	27.0	28.9	29.8
10/25/85	11.7	14.9	--	20.2	--	15.0	19.0	23.0	23.8	25.1
11/01/85	9.5	13.4	--	18.1	--	12.7	16.5	20.4	20.8	22.0
11/08/85	11.2	15.4	--	20.3	--	14.7	19.1	22.7	23.5	24.7
12/03/85	12.6	15.6	--	20.1	--	14.4	18.4	22.4	22.6	24.6
02/20/86	27.6	23.9	--	19.2	--	13.7	17.5	21.1	22.1	23.4
02/28/86	31.2	31.9	--	32.7	--	27.9	23.8	23.0	23.4	24.7
03/06/86	24.8	30.1	--	31.5	--	26.7	25.9	25.5	23.7	24.2
03/14/86	26.5	30.7	--	31.7	--	28.1	27.9	26.3	25.1	24.8
03/20/86	25.8	30.6	--	32.1	--	27.9	27.5	26.9	25.9	25.4
03/28/86	22.9	29.7	--	31.4	--	27.6	26.8	26.4	25.6	26.1
04/02/86	24.4	28.5	--	31.6	--	27.7	27.2	26.8	26.0	26.2
05/15/86	23.1	29.0	31.2	31.4	29.0	27.0	26.7	26.6	26.2	26.2
05/22/86	19.8	28.2	31.2	31.0	29.1	27.1	26.6	26.9	25.9	26.2
06/04/86	10.6	23.4	28.8	29.1	27.3	23.8	24.4	25.7	25.1	25.0
06/12/86	12.5	24.1	29.1	29.5	27.5	23.7	24.8	26.4	25.8	26.4
06/19/86	11.9	22.8	27.2	27.6	25.3	22.3	23.3	24.5	24.3	25.0
06/26/86	9.2	21.3	26.8	27.8	25.0	22.6	23.3	24.7	25.3	25.6
07/02/86	8.9	19.6	25.7	27.3	23.7	20.6	22.6	25.5	25.2	26.4
07/11/86	8.7	18.2	24.2	25.2	21.8	19.0	22.9	25.2	25.0	25.6
07/18/86	7.9	17.9	22.9	24.1	22.3	18.7	21.3	25.0	25.0	26.6
08/01/86	8.2	16.1	20.7	23.5	20.2	16.9	21.1	25.2	25.6	26.1
08/30/86	7.3	13.7	17.8	17.1	15.5	13.4	18.5	23.1	23.5	25.2
09/12/86	8.9	13.1	15.3	16.8	14.4	12.0	18.1	23.1	23.6	24.3
09/26/86	8.8	13.4	14.7	16.4	13.9	12.3	18.5	22.6	23.9	24.9
10/20/86	9.4	13.5	15.3	17.1	14.4	12.7	18.1	22.7	23.5	24.2
11/19/86	9.9	13.5	15.2	16.3	14.8	12.5	17.5	22.3	23.6	24.9
12/04/86	10.2	13.9	15.4	16.5	14.5	12.3	17.9	22.1	23.2	24.3

Table 9.--Volumetric moisture content of soils at Neutron access hole no. 3--continued
[Moisture content in percent volume]

DATE	Depth below land-surface, in meters									
	2.44	2.74	3.05	3.35	3.66	3.96	4.27	4.57	4.88	5.18
04/17/85	25.8	23.1	20.6	26.1	23.8	21.8	26.4	24.7	24.5	20.5
04/19/85	26.2	23.0	20.4	25.8	23.6	21.9	25.9	24.5	24.5	20.3
04/26/85	26.2	22.8	20.7	25.8	23.3	21.9	26.0	24.5	24.6	20.5
05/02/85	26.1	22.7	20.6	25.9	23.3	21.7	25.8	24.5	24.8	20.3
05/09/85	26.5	22.9	20.4	26.0	23.4	21.6	25.9	24.4	24.6	19.9
05/17/85	27.0	23.1	20.4	26.0	23.6	22.3	26.1	24.5	25.4	20.3
05/23/85	27.3	22.8	20.7	25.8	23.6	22.0	25.5	24.5	24.7	20.1
05/30/85	27.2	22.9	21.2	26.4	23.9	21.9	25.9	24.6	24.7	20.3
06/07/85	26.9	22.8	20.8	25.6	23.1	21.9	25.5	24.1	24.5	19.7
06/13/85	28.0	23.0	21.2	26.3	23.8	21.9	26.2	24.9	24.9	20.1
06/20/85	29.0	24.5	22.3	26.7	24.8	22.7	27.0	25.2	26.0	20.9
06/27/85	27.7	23.4	21.6	26.5	23.9	21.8	26.0	24.5	24.4	20.0
07/05/85	28.0	23.2	21.7	26.4	23.8	21.9	25.9	24.1	24.5	19.9
07/12/85	27.7	27.1	23.0	21.5	24.0	22.1	26.3	24.7	24.6	22.0
07/19/85	28.6	24.2	22.8	27.3	24.4	22.2	26.6	25.2	25.5	21.2
07/26/85	29.3	24.7	23.2	27.8	25.4	22.5	26.8	25.8	25.8	20.8
08/01/85	28.7	24.4	22.6	26.9	24.5	22.8	27.2	25.5	27.9	22.2
08/09/85	28.3	23.8	22.2	26.6	23.8	21.5	25.7	24.9	24.6	20.1
08/16/85	29.4	24.7	23.1	27.1	24.5	22.3	27.2	25.8	25.2	21.0
08/23/85	26.6	22.3	21.4	25.0	22.6	20.1	24.7	23.2	23.8	19.2
08/30/85	30.0	25.5	23.3	28.0	26.4	22.1	26.7	25.4	25.4	20.8
09/06/85	26.3	22.4	20.6	25.1	21.9	19.3	24.3	22.6	22.8	18.3
09/13/85	27.8	23.7	22.2	26.8	24.1	21.3	26.1	24.1	24.7	20.1
09/20/85	28.0	23.9	22.2	26.3	23.8	21.2	25.9	24.4	24.4	20.3
09/27/85	27.5	23.1	22.0	26.4	23.7	21.1	25.4	24.2	24.2	19.4
10/03/85	28.2	23.5	22.8	27.0	24.3	21.6	26.6	24.9	25.0	20.3
10/11/85	28.7	23.9	23.0	27.1	24.1	21.0	27.0	24.7	25.7	20.2
10/18/85	33.2	28.8	26.4	31.4	28.8	25.8	31.3	29.3	29.4	24.2
10/25/85	28.0	24.7	22.5	26.7	24.7	21.8	26.7	25.4	24.9	20.8
11/01/85	25.4	21.9	20.6	24.3	21.9	19.1	23.9	22.3	22.9	17.9
11/08/85	28.0	24.2	22.4	27.2	24.7	21.6	26.9	25.4	25.4	20.2
12/03/85	27.8	23.7	22.3	26.5	24.4	21.7	26.5	24.6	25.1	20.6
02/20/86	26.6	23.0	21.5	25.9	23.6	20.5	25.8	23.4	23.8	19.4
02/28/86	28.4	24.9	23.3	27.7	24.5	22.0	27.2	25.4	25.1	21.0
03/06/86	27.7	24.4	22.1	26.7	24.1	21.2	26.6	24.7	25.2	20.3
03/14/86	28.2	24.0	22.9	27.0	24.2	21.4	26.6	24.5	24.6	20.9
03/20/86	27.8	24.4	22.1	27.1	24.6	21.6	26.3	24.9	24.7	20.3
03/28/86	27.7	23.9	22.5	26.9	24.6	21.4	26.4	25.2	24.5	20.6
04/02/86	28.1	23.5	21.9	26.9	24.4	21.6	26.2	24.5	24.6	20.1
05/15/86	28.9	24.3	24.0	27.7	24.2	21.1	26.5	24.6	24.5	20.8
05/22/86	29.1	24.6	24.4	27.1	24.7	21.7	26.7	24.9	25.0	20.9
06/04/86	27.9	23.7	24.0	26.8	23.0	20.7	25.4	24.1	24.0	19.0
06/12/86	29.1	25.0	24.5	27.6	24.3	21.4	26.1	24.3	24.5	19.9
06/19/86	28.3	23.6	23.9	27.1	23.0	20.5	25.0	23.5	24.2	19.2
06/26/86	29.0	24.8	25.2	27.3	24.5	21.0	26.3	24.3	24.4	19.9
07/02/86	28.9	25.2	25.0	28.6	24.9	21.6	26.9	25.0	25.5	21.0
07/11/86	28.9	25.1	24.9	27.5	24.7	21.4	26.1	24.7	24.5	20.3
07/18/86	29.5	25.8	25.4	28.2	25.1	21.9	26.7	25.1	24.8	21.1
08/01/86	29.9	26.0	25.5	28.9	25.3	22.1	27.0	25.4	25.1	20.5
08/30/86	29.2	25.1	25.1	27.8	25.2	20.9	25.7	23.6	24.8	19.4
09/12/86	28.1	24.9	24.5	28.0	25.1	21.0	25.9	24.6	24.1	19.6
09/26/86	28.5	25.7	24.5	27.5	25.3	21.3	26.5	24.6	25.2	20.0
10/20/86	28.3	25.5	24.6	28.1	25.3	21.6	26.5	24.9	24.3	20.1
11/19/86	28.6	24.9	24.3	28.2	24.9	21.5	26.0	25.0	25.1	20.2
12/04/86	28.4	25.4	24.4	27.7	25.5	21.4	26.0	24.5	24.7	20.4

Table 10.--Volumetric moisture content of soils at neutron-probe access hole 4
[Moisture content in percent volume]

DATE	Depth below land surface, in meters									
	0.15	0.30	0.46	0.61	0.76	0.91	1.22	1.52	1.83	2.13
04/18/85	--	29.6	--	30.0	--	23.7	17.2	17.3	16.4	20.0
04/19/85	--	28.9	--	29.9	--	23.6	17.5	17.6	15.7	19.8
04/26/85	--	28.2	--	28.8	--	23.0	19.9	17.9	16.1	20.0
05/02/85	--	28.3	--	28.9	--	23.0	20.2	18.7	15.7	20.0
05/09/85	--	27.5	--	28.2	--	22.4	20.3	19.6	16.2	19.8
05/17/85	19.0	27.2	--	28.1	--	22.2	20.3	19.8	16.6	19.9
05/23/85	17.5	27.2	--	27.7	--	21.9	20.0	20.2	16.9	20.2
05/30/85	15.2	26.2	--	27.2	--	21.3	20.2	20.0	17.0	20.2
06/07/85	13.6	25.0	--	26.6	--	20.7	19.9	20.3	17.2	20.6
06/13/85	11.0	24.1	--	26.0	--	19.9	19.8	20.2	17.5	20.5
06/20/85	9.8	23.7	--	25.9	--	20.0	19.9	20.7	18.1	21.6
06/27/85	11.5	21.7	--	24.6	--	18.4	19.0	19.5	17.5	20.6
07/05/85	8.8	20.0	--	23.2	--	17.3	18.5	19.1	17.4	20.3
07/12/85	8.7	18.4	--	22.5	--	16.7	17.9	18.9	16.7	20.6
07/19/85	8.7	18.9	--	22.8	--	17.4	18.4	20.2	18.2	21.6
07/26/85	9.3	18.3	--	21.8	--	16.5	17.7	19.9	17.8	21.3
08/02/85	9.4	17.9	--	20.9	--	15.7	17.8	19.7	17.6	21.6
08/09/85	8.0	16.7	--	21.2	--	15.5	17.3	19.1	16.7	22.6
08/16/85	7.7	16.1	--	19.9	--	15.2	17.7	19.5	17.6	21.8
08/23/85	6.3	14.4	--	18.1	--	13.9	16.8	17.9	16.0	19.9
08/30/85	6.7	14.4	--	18.3	--	14.7	16.8	18.9	17.3	21.5
09/06/85	5.9	13.2	--	17.0	--	13.5	16.0	19.0	17.6	21.1
09/13/85	13.2	13.9	--	17.2	--	13.1	15.9	18.0	17.1	20.4
09/20/85	12.1	13.7	--	17.1	--	13.1	15.6	18.1	16.5	21.0
09/27/85	11.4	14.3	--	16.9	--	13.2	15.5	17.9	16.2	20.8
10/08/85	12.2	14.4	--	17.5	--	13.0	15.7	18.7	18.8	20.9
10/11/85	12.0	14.7	--	17.7	--	13.6	16.9	19.8	16.4	20.8
10/18/85	13.8	18.2	--	20.5	--	15.9	19.4	21.3	20.3	24.6
10/25/85	11.8	15.0	--	17.4	--	13.2	15.8	18.2	17.0	20.6
11/01/85	10.2	13.2	--	15.6	--	13.7	13.7	16.6	14.7	19.0
11/08/85	11.9	15.3	--	17.3	--	13.2	16.0	18.5	16.6	20.6
12/03/85	13.4	14.6	--	16.8	--	12.8	15.1	18.0	16.1	20.4
02/20/86	28.7	28.0	--	16.1	--	12.1	14.8	16.6	15.3	19.8
02/28/86	30.4	32.6	--	31.6	--	23.6	15.1	17.9	16.4	20.4
03/06/86	25.0	30.4	--	31.1	--	25.3	20.9	17.2	15.6	20.4
03/14/86	26.1	30.6	--	31.2	--	26.8	23.3	19.8	16.6	20.8
03/20/86	26.3	30.9	--	31.3	--	26.2	23.1	22.2	16.7	20.6
03/28/86	23.4	30.4	--	32.7	--	25.7	23.6	22.9	17.6	20.3
04/02/86	24.7	28.9	--	30.2	--	25.9	23.6	23.3	18.1	20.6
04/11/86	23.2	28.8	--	30.6	--	25.7	23.4	23.3	19.5	20.7
04/18/86	23.2	29.2	--	30.0	--	25.7	23.3	23.8	20.2	20.8
04/25/86	21.7	28.6	--	29.7	--	24.5	23.2	23.1	20.4	21.3
05/02/86	20.5	27.7	29.8	29.8	26.8	24.5	22.8	22.7	19.9	21.2
05/08/86	24.4	28.4	29.5	29.9	26.9	25.1	23.0	23.2	20.1	22.7
05/15/86	22.8	28.8	29.9	29.7	27.3	25.3	23.2	23.8	20.5	22.8
05/22/86	20.6	27.8	30.2	29.9	27.5	25.4	23.5	23.5	20.9	23.3
06/04/86	14.7	26.0	28.0	28.4	25.9	23.3	22.5	22.8	20.1	23.2
06/12/86	18.0	25.9	27.9	28.0	24.9	23.1	21.8	22.8	20.5	23.7
06/19/86	14.1	24.2	26.5	26.7	23.6	21.6	21.2	21.9	20.2	22.2
06/26/86	12.4	23.7	26.4	26.4	23.2	20.9	20.9	22.7	19.6	23.1
07/02/86	10.4	22.8	26.3	26.6	22.8	20.6	21.5	22.6	20.3	24.1
07/11/86	9.9	22.3	25.4	25.5	22.2	19.6	20.5	22.6	20.6	23.4
07/18/86	8.6	21.8	25.2	24.5	21.0	19.4	21.0	22.3	20.7	24.0
08/01/86	9.2	20.2	23.0	22.6	20.1	17.7	19.8	21.2	19.7	23.3
08/30/86	7.6	16.1	19.4	19.5	17.5	14.8	17.5	20.0	19.0	22.4
09/12/86	9.3	15.3	18.4	19.1	16.6	14.3	17.1	19.5	18.5	22.3
09/26/86	9.2	15.8	18.2	18.9	16.6	14.6	17.2	19.4	18.2	22.4
10/20/86	10.6	16.1	18.5	18.9	16.7	14.1	17.4	19.6	18.6	22.4
11/19/86	12.0	16.3	18.6	18.9	16.4	14.2	17.1	19.1	17.9	22.4
12/04/86	12.7	16.5	18.5	18.8	16.0	14.1	16.7	19.5	17.8	22.1

Table 10.--Volumetric moisture content of soils at neutron-probe access hole 4--continued
[Moisture content in percent volume]

DATE	Depth below land surface, in meters									
	2.44	2.74	3.05	3.35	3.66	3.96	4.27	4.57	4.88	5.12
04/18/85	20.6	21.6	18.8	20.0	24.2	23.4	18.3	19.5	18.7	18.3
04/19/85	20.4	21.2	18.4	20.0	23.8	22.9	18.4	19.3	18.6	18.1
04/26/85	20.4	21.2	18.4	19.7	24.0	23.2	18.3	19.6	18.6	18.0
05/02/85	20.6	21.5	18.2	20.2	24.2	23.0	18.3	19.7	18.3	18.1
05/09/85	20.5	21.0	18.5	19.9	23.9	23.1	18.3	19.6	18.4	17.8
05/17/85	20.6	21.2	18.8	20.1	24.1	23.2	18.4	19.8	18.7	18.1
05/23/85	20.3	21.4	20.7	20.0	24.1	23.2	18.3	19.4	18.2	18.3
05/30/85	20.7	21.4	18.1	20.4	24.2	23.2	18.5	19.8	18.5	18.0
06/07/85	21.5	21.7	18.8	20.6	23.6	22.9	17.9	19.1	18.0	17.7
06/13/85	21.1	21.4	18.2	20.1	24.5	23.3	18.1	19.8	18.5	18.0
06/20/85	20.9	21.9	18.5	20.4	25.1	24.1	19.0	20.0	18.9	19.0
06/27/85	20.8	21.2	18.6	20.4	24.2	23.0	18.3	19.7	18.3	17.8
07/05/85	20.3	21.0	18.3	19.9	24.1	23.0	18.0	19.3	18.3	17.8
07/12/85	20.5	21.1	18.4	20.1	23.8	23.1	17.9	19.3	18.2	17.9
07/19/85	27.5	21.9	19.5	20.6	24.7	24.7	19.8	21.4	20.1	19.7
07/26/85	21.2	22.5	19.3	21.3	24.9	25.0	18.9	20.4	19.3	18.6
08/02/85	21.7	22.4	19.2	20.7	25.7	25.2	19.2	20.0	18.9	18.8
08/09/85	21.6	23.0	19.8	20.9	25.2	24.4	19.1	20.0	18.9	18.2
08/16/85	21.5	22.2	19.1	21.1	24.8	24.1	19.0	20.5	18.9	18.6
08/23/85	20.1	20.2	17.8	23.2	22.9	21.9	17.5	19.5	18.5	18.3
08/30/85	21.4	22.0	18.8	20.4	24.8	24.0	18.7	20.2	18.7	18.5
09/06/85	19.8	19.7	16.7	18.6	22.2	22.4	17.0	18.2	17.9	17.4
09/13/85	20.7	21.1	18.2	19.8	23.8	23.4	18.0	19.7	18.3	18.0
09/20/85	21.0	21.6	18.4	20.1	24.3	23.5	18.4	19.7	18.5	18.6
09/27/85	20.5	21.5	17.7	19.6	24.0	23.0	18.2	19.3	17.6	17.9
10/08/85	21.1	22.2	18.7	20.4	25.0	23.0	18.5	20.3	18.5	18.4
10/11/85	20.9	21.6	18.7	19.9	24.8	24.9	18.6	19.7	18.7	18.4
10/18/85	25.2	25.3	22.5	24.3	28.7	28.3	22.3	23.9	22.4	22.1
10/25/85	21.1	22.1	19.0	18.2	24.4	23.8	18.8	19.7	18.8	18.9
11/01/85	19.1	18.9	16.4	18.4	22.2	21.2	16.6	19.6	17.3	16.6
11/08/85	20.6	21.5	19.4	20.5	24.5	24.2	19.0	20.9	19.1	18.3
12/03/85	20.8	21.6	18.4	19.9	23.4	23.2	18.0	18.9	17.9	17.8
02/20/86	19.8	20.7	17.3	19.5	23.4	22.6	17.6	18.8	17.9	17.6
02/28/86	20.5	21.3	18.5	19.6	24.1	23.4	18.3	19.8	18.4	17.9
03/06/86	20.7	21.2	18.1	19.8	24.0	23.7	18.7	19.6	18.5	18.0
03/14/86	20.9	21.4	18.3	20.2	24.6	24.0	18.5	20.1	18.6	18.5
03/20/86	21.5	21.6	18.3	20.0	24.1	23.6	18.9	19.5	18.7	18.1
03/28/86	21.0	21.1	19.1	20.4	24.8	23.7	18.3	19.9	18.6	18.5
04/02/86	20.5	21.4	18.3	20.0	23.8	23.9	18.2	20.0	18.4	18.5
04/11/86	20.9	21.7	18.3	20.3	23.6	23.3	18.1	19.6	18.3	18.2
04/18/86	21.5	22.0	18.6	20.4	24.5	23.6	18.0	19.7	18.6	18.8
04/25/86	20.6	21.3	18.2	20.0	24.4	22.7	18.2	19.4	18.4	18.8
05/02/86	20.0	20.8	18.3	19.4	23.8	23.1	18.0	18.9	18.2	17.8
05/08/86	20.8	21.7	18.2	19.9	24.1	23.3	18.4	19.8	18.3	18.7
05/15/86	21.0	21.7	18.7	20.2	24.8	23.8	18.6	19.8	18.3	18.4
05/22/86	20.7	21.6	18.6	20.1	24.1	23.8	18.7	20.1	18.4	18.2
06/04/86	20.2	20.6	18.1	19.5	23.6	22.9	18.6	20.5	19.1	17.6
06/12/86	21.2	21.3	18.8	21.3	25.3	23.6	19.0	20.4	19.7	18.7
06/19/86	20.7	20.9	18.3	19.7	24.4	23.9	18.5	20.3	18.0	18.4
06/26/86	20.7	21.6	17.9	19.9	23.8	23.7	17.8	19.4	18.0	17.8
07/02/86	21.3	21.7	19.1	20.7	24.6	23.6	18.3	20.9	19.6	19.6
07/11/86	21.4	21.9	18.7	20.0	25.2	23.5	18.0	19.6	18.6	18.8
07/18/86	21.3	21.5	18.9	20.3	24.6	23.5	18.6	20.1	18.5	18.5
08/01/86	22.0	22.2	18.9	20.8	24.2	23.7	19.5	20.0	18.8	18.8
08/30/86	21.2	21.5	18.9	19.9	23.9	23.3	18.0	19.5	18.3	17.9
09/12/86	21.4	21.3	18.3	19.9	24.1	22.7	17.8	19.5	18.3	17.8
09/26/86	21.7	21.9	18.2	20.1	24.4	23.7	18.6	19.4	18.1	18.4
10/20/86	21.8	21.3	18.6	19.9	24.5	23.6	18.1	19.4	18.6	18.4
11/19/86	21.7	21.9	18.5	20.3	24.2	23.4	18.0	19.6	18.4	18.4
12/04/86	21.7	21.4	18.4	20.2	24.4	23.7	18.4	19.4	18.1	18.4

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Table 11.--Volumetric moisture content of soils at neutron-probe access hole 5
[Moisture content in percent volume]

DATE	Depth below land surface, in meters											
	0.15	0.30	0.46	0.61	0.76	0.91	1.22	1.52	1.83	2.13	2.44	2.74
04/22/85	--	28.9	--	28.1	--	30.5	28.2	32.3	28.1	26.0	26.4	28.8
04/26/85	--	29.2	--	28.6	--	30.6	28.1	32.3	28.2	26.2	26.3	28.8
05/02/85	--	28.1	--	28.6	--	30.6	27.9	31.8	28.1	26.4	26.2	28.7
05/09/85	--	28.9	--	28.2	--	30.7	27.9	32.0	27.8	26.1	25.9	28.5
05/17/85	24.4	27.6	--	28.7	--	30.8	28.3	32.5	28.0	26.3	26.4	28.7
05/23/85	26.7	26.6	--	28.5	--	30.5	28.2	31.9	28.6	26.0	26.0	28.8
05/30/85	26.8	26.9	--	28.0	--	30.7	28.5	32.3	27.9	26.0	26.3	28.5
06/07/85	27.3	26.9	--	27.2	--	30.4	28.1	31.8	28.4	25.8	26.0	28.4
06/13/85	26.2	27.4	--	28.6	--	31.1	28.6	32.4	28.4	26.0	26.2	29.3
06/20/85	25.2	28.1	--	28.7	--	33.5	29.9	33.3	29.1	27.4	26.8	29.8
06/27/85	25.0	26.0	--	28.3	--	31.0	28.8	32.5	28.3	26.4	26.0	28.8
07/05/85	24.2	26.2	--	27.9	--	30.6	28.4	32.2	28.2	26.1	26.2	29.0
07/12/85	24.7	26.4	--	27.9	--	31.0	28.9	32.1	28.3	26.2	26.2	28.8
07/19/85	17.7	28.3	--	31.0	--	31.7	30.3	33.5	29.3	27.1	27.3	30.0
07/26/85	26.9	27.2	--	28.8	--	32.1	29.8	33.8	29.7	27.1	27.2	29.8
08/02/85	26.7	27.0	--	30.6	--	32.5	29.6	32.6	28.5	26.5	27.3	29.3
08/09/85	26.0	26.3	--	27.5	--	31.2	28.8	32.4	28.3	26.4	26.3	28.7
08/16/85	23.5	25.6	--	28.6	--	32.1	31.6	34.7	29.4	27.7	27.4	30.8
08/23/85	22.7	23.8	--	25.7	--	29.1	27.1	30.5	26.7	25.0	24.8	27.5
08/30/85	27.4	30.9	--	35.6	--	39.7	34.6	35.5	31.6	29.7	29.0	31.2
09/06/85	21.6	22.5	--	25.0	--	28.4	26.3	30.0	26.5	24.8	24.4	27.3
09/13/85	24.2	23.3	--	26.6	--	30.5	27.9	31.8	28.1	26.2	26.3	29.0
09/20/85	25.2	23.9	--	26.2	--	29.9	27.6	32.6	28.1	26.5	26.3	28.6
09/27/85	23.9	23.3	--	25.9	--	29.3	27.5	31.7	28.1	26.2	26.1	28.7
10/08/85	23.9	24.5	--	27.0	--	30.0	28.1	33.1	28.9	27.3	26.8	29.1
10/11/85	25.5	24.1	--	26.6	--	30.2	28.8	32.4	29.1	27.0	26.8	29.6
10/18/85	25.6	28.0	--	30.9	--	35.4	33.3	37.7	33.2	31.6	31.0	34.3
10/25/85	23.5	23.9	--	27.0	--	30.2	27.9	32.0	28.6	26.3	26.8	30.0
11/01/85	20.0	21.4	--	23.9	--	26.9	25.3	29.0	25.7	24.0	23.7	26.5
11/08/85	24.0	24.2	--	26.5	--	30.3	28.0	32.1	28.5	26.2	26.5	29.1
12/03/85	22.1	23.0	--	25.8	--	29.9	27.6	31.4	28.3	26.8	26.3	29.2
02/20/86	33.7	22.7	--	25.2	--	28.0	26.0	30.5	26.6	25.4	25.1	27.1
02/28/86	33.8	29.2	--	25.6	--	28.9	27.2	31.8	28.1	26.2	25.8	28.9
03/06/86	30.4	28.5	--	25.6	--	28.8	26.4	31.1	26.9	26.0	26.3	28.9
03/14/86	33.7	30.3	--	27.5	--	29.7	27.6	32.4	28.4	26.5	26.7	29.3
03/20/86	33.3	29.5	--	26.1	--	29.4	26.8	31.2	27.7	26.0	25.6	28.5
03/28/86	31.2	31.0	--	29.2	--	31.1	27.8	32.8	28.8	27.0	27.1	30.3
04/02/86	31.5	28.9	--	28.2	--	31.0	27.7	31.7	28.4	26.0	26.1	29.1
04/11/86	31.5	29.0	--	27.9	--	29.3	27.6	31.2	28.1	25.9	26.4	29.4
04/18/86	31.2	28.6	--	28.0	--	30.4	27.7	31.8	28.5	26.2	26.7	29.0
04/25/86	29.9	28.0	--	27.9	--	30.2	27.1	31.5	28.2	26.2	26.5	29.1
05/02/86	28.9	27.2	26.0	28.3	30.8	29.8	27.3	31.5	28.2	26.1	26.3	28.3
05/08/86	31.8	28.1	26.4	28.0	31.0	30.2	27.3	31.7	28.3	25.7	26.6	29.0
05/15/86	31.3	29.1	25.9	27.7	31.2	30.0	27.6	31.8	28.2	26.6	26.7	28.9
05/22/86	29.7	28.2	26.7	28.4	31.6	30.9	27.6	32.6	28.5	27.0	26.7	29.1
06/04/86	23.5	26.0	24.6	26.5	30.1	29.8	27.0	30.8	27.3	26.1	25.3	27.5
06/12/86	25.2	25.5	24.1	28.0	30.9	29.7	27.4	31.4	28.0	25.9	26.7	28.6
06/19/86	22.5	23.4	22.2	25.6	29.2	29.0	26.5	31.2	27.6	25.1	25.6	28.3
06/26/86	20.7	22.0	20.3	24.6	28.9	28.9	26.7	31.4	28.0	25.9	26.0	28.8
07/02/86	18.7	21.2	18.6	22.9	27.8	28.7	26.8	31.7	28.5	26.4	26.5	29.8
07/11/86	17.4	20.6	17.9	21.6	27.7	29.4	27.3	32.1	28.4	25.9	25.8	29.5
07/18/86	17.5	20.5	17.6	21.4	27.0	28.1	27.9	33.1	29.0	26.9	26.8	29.1
08/30/86	15.1	18.3	15.7	16.5	21.4	23.0	24.7	31.5	28.0	26.2	26.6	28.2
09/12/86	15.9	17.8	15.2	17.2	20.4	22.1	23.6	31.1	27.9	26.1	26.3	28.6
09/26/86	16.9	17.5	15.7	16.9	20.2	22.0	23.3	30.9	28.1	26.5	26.6	29.4
10/20/86	16.6	17.9	15.6	16.7	20.0	21.9	23.4	30.7	28.0	26.0	26.8	28.8
11/19/86	17.0	18.3	15.5	17.2	20.5	22.1	23.3	30.6	28.1	26.0	26.5	28.9
12/04/86	16.9	17.8	15.7	17.5	20.0	21.7	23.0	30.8	27.5	25.8	26.7	29.1

Table 12.--Volumetric moisture content of soils at neutron-probe access hole 6
[Moisture content in percent volume]

DATE	Depth below land surface, in meters										
	0.15	0.30	0.46	0.61	0.76	0.91	1.22	1.52	1.83	2.13	2.44
06/05/85	20.0	21.3	--	20.8	--	19.8	13.1	11.5	10.4	9.1	9.3
06/07/85	23.4	24.3	--	26.9	--	25.4	19.2	14.9	12.7	11.1	9.8
06/13/85	21.8	22.1	--	21.8	--	19.9	13.5	11.8	10.7	9.0	9.3
06/20/85	22.4	23.3	--	22.9	--	21.2	14.8	12.2	12.4	10.4	10.7
06/27/85	22.1	25.3	--	25.3	--	19.6	13.8	12.4	10.7	9.1	9.5
07/05/85	20.4	21.5	--	22.1	--	19.4	13.8	11.7	10.5	9.1	9.6
07/12/85	20.5	21.3	--	20.9	--	19.1	13.7	11.8	10.4	16.0	9.4
07/19/85	20.7	21.6	--	21.8	--	20.0	14.1	13.0	11.0	9.8	10.0
07/26/85	21.2	22.0	--	21.6	--	19.9	14.5	13.1	11.0	9.6	10.3
08/01/85	21.2	21.5	--	22.4	--	20.5	14.8	13.0	11.0	10.6	10.6
08/09/85	18.6	18.9	--	20.1	--	18.5	13.8	12.3	11.0	9.1	9.5
08/16/85	17.6	18.4	--	21.4	--	19.9	14.5	13.2	11.5	9.7	10.1
08/23/85	15.2	15.0	--	18.3	--	17.5	11.9	11.8	10.9	8.9	8.9
08/30/85	15.0	16.6	--	20.7	--	18.0	13.7	12.2	13.4	11.3	11.4
09/06/85	13.0	13.3	--	16.2	--	17.9	9.6	10.0	10.0	8.3	8.8
09/13/85	21.8	15.3	--	17.2	--	16.9	10.7	11.4	11.0	9.7	9.5
09/20/85	18.3	14.7	--	16.6	--	16.4	10.3	10.8	10.5	9.4	9.4
09/27/85	17.1	14.5	--	17.1	--	16.2	10.5	11.4	10.7	9.1	11.1
10/03/85	17.5	15.4	--	17.4	--	16.8	11.3	11.6	11.1	9.7	10.0
10/11/85	16.7	15.4	--	17.1	--	16.8	11.0	11.5	11.1	9.4	10.2
10/18/85	20.1	18.6	--	21.1	--	19.8	13.9	14.1	13.7	11.8	12.2
10/25/85	17.8	15.5	--	17.4	--	16.8	11.0	11.5	11.2	9.8	9.9
11/01/85	15.2	13.5	--	15.3	--	14.3	9.6	9.6	9.2	8.1	8.2
11/08/85	17.0	16.1	--	18.7	--	17.7	12.1	12.6	11.4	10.6	10.0
12/03/85	17.2	15.2	--	17.5	--	16.5	10.9	11.3	10.8	9.5	9.7
02/20/86	24.4	16.1	--	16.5	--	15.6	10.1	10.8	10.0	8.9	8.8
02/28/86	33.7	29.9	--	24.3	--	16.2	11.2	11.3	11.0	9.4	9.7
03/06/86	31.6	29.4	--	25.4	--	17.1	11.5	11.8	11.3	8.8	10.2
03/14/86	31.7	28.5	--	25.5	--	20.2	12.3	13.2	10.9	9.3	9.7
03/20/86	31.3	28.5	--	26.3	--	21.6	12.3	11.6	10.9	9.6	9.8
03/28/86	29.8	27.3	--	24.9	--	22.0	13.1	12.1	11.1	10.0	10.0
04/02/86	30.6	27.1	--	24.5	--	21.9	13.6	11.8	11.7	9.7	9.5
04/11/86	29.4	28.4	--	24.5	--	22.5	16.1	13.0	11.1	9.2	9.7
04/18/86	29.1	27.9	--	25.3	--	21.9	16.0	13.3	11.1	9.6	9.9
04/25/86	27.7	25.9	--	24.4	--	21.6	16.7	13.2	11.1	10.2	10.5
05/02/86	27.8	24.9	24.2	22.7	22.1	21.7	17.2	12.8	11.3	9.4	9.2
05/08/86	29.8	26.4	24.8	23.6	22.9	21.1	16.4	13.8	11.7	9.5	9.9
05/15/86	28.6	26.5	25.3	24.4	23.6	21.3	15.7	14.2	12.0	9.7	9.6
05/22/86	25.9	25.1	24.4	24.2	22.9	21.8	16.1	14.4	13.5	10.1	10.0
06/04/86	17.7	19.3	23.2	24.3	21.5	20.0	15.2	14.1	11.5	9.7	9.4
06/12/86	18.8	19.0	21.2	22.5	21.2	20.5	16.4	14.8	12.4	9.3	9.9
06/19/86	16.6	15.9	18.8	20.3	20.5	22.3	15.5	14.5	12.4	10.8	10.1
06/26/86	13.5	14.3	16.9	21.2	20.7	20.2	15.8	14.9	12.9	10.1	9.7
07/02/86	13.3	15.2	15.9	19.3	20.1	21.7	15.8	15.2	13.3	10.6	10.8
07/07/86	13.0	13.6	15.2	18.0	19.1	18.8	15.6	15.3	13.0	9.7	10.8
07/11/86	12.2	14.1	15.0	18.0	19.6	19.0	15.2	15.6	13.5	10.6	10.3
07/18/86	11.9	13.7	15.0	17.1	18.6	19.2	15.6	14.9	13.6	10.5	10.3
08/01/86	12.3	13.1	14.9	17.6	18.7	19.1	15.1	15.7	14.2	10.6	10.4
08/30/86	10.4	12.4	14.3	16.9	17.2	16.8	11.9	12.2	12.8	10.1	9.7
09/12/86	12.0	12.1	14.2	16.2	16.9	15.8	11.1	11.9	12.2	10.1	9.5
09/26/86	12.8	12.7	14.3	16.2	16.2	15.4	10.6	11.2	12.1	10.2	9.3
10/20/86	13.3	12.5	14.1	16.3	16.2	15.3	10.6	11.4	12.0	10.6	9.7
11/19/86	14.1	12.5	13.9	15.8	16.2	14.6	11.1	11.9	11.8	10.3	9.7
12/04/86	14.0	12.8	14.2	15.4	15.5	15.0	10.9	11.3	11.9	10.2	9.7

Table 12.--Volumetric moisture content of soils at neutron-probe access hole 6--continued
[Moisture content in percent volume]

DATE	Depth below land surface, in meters										
	2.74	3.05	3.35	3.66	3.96	4.27	4.57	4.88	5.18	5.49	5.70
06/05/85	10.1	4.2	16.4	23.1	21.0	18.1	19.2	19.4	18.7	19.4	18.4
06/07/85	10.0	3.8	15.4	23.1	20.6	18.3	18.6	19.0	18.4	19.4	18.0
06/13/85	10.0	4.0	15.7	23.6	21.3	18.4	19.2	19.5	18.6	19.4	18.5
06/20/85	11.0	4.3	15.8	24.8	22.2	19.2	19.7	19.7	19.1	20.2	18.9
06/27/85	10.4	3.9	15.7	23.8	22.2	19.7	20.0	19.4	18.8	19.3	19.1
07/05/85	10.9	4.1	15.3	23.1	21.4	18.0	18.9	19.7	19.2	19.7	18.2
07/12/85	9.8	3.3	15.2	23.5	20.7	21.6	19.0	19.3	18.7	19.1	18.3
07/19/85	11.5	4.3	16.1	24.2	21.8	20.8	20.2	20.9	21.7	21.2	22.3
07/26/85	10.7	4.2	29.6	24.9	22.0	18.9	20.3	20.4	19.4	20.4	18.9
08/01/85	10.4	4.7	14.8	22.6	20.7	19.5	20.6	20.7	20.3	20.3	19.1
08/09/85	10.4	3.9	15.6	23.3	20.6	18.2	19.3	19.8	18.8	19.3	18.3
08/16/85	11.0	4.1	16.6	29.8	22.2	19.6	20.1	20.7	19.6	23.3	20.8
08/23/85	9.7	3.6	15.1	23.3	19.9	17.6	18.6	18.9	17.9	18.5	17.4
08/30/85	12.1	5.3	17.9	25.7	23.3	20.4	19.7	20.3	22.9	22.6	22.1
09/06/85	9.2	3.2	14.3	21.6	19.0	16.6	17.5	17.6	17.3	17.5	16.9
09/13/85	10.4	3.8	15.7	23.3	20.7	18.3	19.1	19.7	19.0	19.5	18.5
09/20/85	10.0	3.8	15.4	23.2	20.8	18.0	18.6	19.3	18.6	19.2	18.4
09/27/85	11.5	4.1	15.7	23.6	20.9	18.2	19.0	19.5	19.6	19.9	18.5
10/03/85	10.4	4.0	16.2	24.4	21.5	18.9	19.5	19.9	19.4	20.2	19.0
10/11/85	10.4	3.9	15.9	23.6	20.9	18.6	19.5	19.7	19.3	19.5	19.0
10/18/85	13.0	5.4	19.3	27.9	24.8	22.0	23.0	23.4	22.4	23.2	22.4
10/25/85	10.4	4.0	16.5	23.7	21.3	18.6	19.5	20.3	19.3	19.9	18.9
11/01/85	8.7	3.1	13.8	21.5	18.4	16.7	17.2	17.8	17.0	17.3	16.5
11/08/85	10.4	4.0	16.4	24.3	21.6	19.2	19.3	20.0	19.4	20.0	18.7
12/03/85	10.4	3.9	16.2	23.8	21.0	18.5	19.1	19.8	18.6	19.6	19.0
02/20/86	9.6	3.3	17.6	22.8	19.9	17.7	18.4	19.0	17.6	18.3	17.5
02/28/86	10.2	3.6	15.9	23.6	20.8	17.8	19.9	19.3	19.1	19.6	18.3
03/06/86	10.2	4.2	16.6	23.9	21.4	18.7	19.6	19.6	18.6	19.3	18.2
03/14/86	10.3	3.6	15.9	25.0	22.0	19.5	21.5	21.1	20.3	19.9	19.2
03/20/86	10.7	3.7	16.3	23.6	21.2	18.9	19.2	19.6	18.8	19.8	20.1
03/28/86	10.4	4.3	16.7	23.5	21.2	19.3	20.2	19.7	19.3	19.4	18.6
04/02/86	10.3	3.8	16.0	23.7	20.4	19.1	19.8	19.9	19.6	19.7	18.5
04/11/86	10.4	3.8	15.6	23.5	21.5	18.5	19.7	19.8	19.8	20.0	18.6
04/18/86	10.5	4.2	16.2	23.8	21.4	18.8	19.9	20.8	19.3	19.8	18.6
04/25/86	10.8	4.6	17.0	23.8	20.6	18.7	19.0	20.8	18.8	19.9	18.3
05/02/86	10.2	3.7	15.3	23.0	20.5	18.1	19.5	19.1	19.4	20.0	18.2
05/08/86	10.5	3.8	15.5	23.1	21.1	18.9	19.4	19.6	19.5	19.4	18.4
05/15/86	10.4	3.9	16.3	23.6	20.9	19.0	19.1	20.6	19.9	19.5	18.3
05/22/86	10.4	3.6	16.1	24.0	21.6	18.8	19.5	20.5	18.9	19.9	18.9
06/04/86	9.7	4.8	15.1	22.6	20.0	17.5	17.9	18.6	17.7	18.8	17.7
06/12/86	9.9	3.7	15.3	24.0	21.5	19.0	18.9	19.7	18.5	19.5	18.4
06/19/86	11.1	3.8	15.9	23.9	21.0	19.4	19.2	20.2	19.1	20.2	18.4
06/26/86	10.2	3.5	16.2	24.3	21.2	19.0	19.6	19.9	19.5	20.5	19.1
07/02/86	10.6	4.2	16.0	24.2	22.4	20.2	19.3	19.6	18.5	19.4	18.9
07/07/86	11.6	4.2	15.7	24.6	21.1	18.7	19.2	19.8	18.8	20.5	18.6
07/11/86	10.5	3.8	16.4	23.1	20.8	18.4	19.6	19.7	19.7	19.4	19.2
07/18/86	11.3	3.8	16.5	23.7	21.7	18.6	19.3	20.2	19.3	20.0	19.1
08/01/86	10.8	3.7	16.5	23.9	21.8	19.1	19.7	20.2	20.0	19.9	19.2
08/30/86	10.5	3.4	16.2	23.4	20.7	18.0	19.4	19.8	18.8	19.0	18.0
09/12/86	10.3	3.7	16.0	23.2	20.2	18.5	18.5	19.2	18.5	19.0	18.2
09/26/86	10.6	3.8	16.0	23.2	21.1	18.4	18.6	20.0	18.9	19.2	18.6
10/20/86	10.1	3.9	16.1	23.3	20.7	18.5	19.1	19.4	18.3	19.5	18.6
11/19/86	9.9	3.9	15.8	23.5	20.8	18.4	19.1	19.9	18.5	19.5	18.3
12/04/86	10.4	3.8	15.8	23.6	20.9	18.5	19.1	20.0	18.8	19.0	18.0

Table 13.--Volumetric moisture content of soils at neutron-probe access hole 7
[Moisture content in percent volume]

DATE	Depth below land surface, in meters										
	0.15	0.30	0.46	0.61	0.76	0.91	1.22	1.52	1.83	2.13	2.44
07/07/86	5.7	10.7	15.6	20.1	18.2	18.0	24.2	25.2	23.3	24.7	22.2
07/07/86	5.6	11.0	15.8	20.0	18.1	17.7	23.8	25.4	23.2	24.1	21.8
07/07/86	5.9	10.6	15.6	19.5	18.1	17.8	24.1	25.1	23.1	24.4	22.1
07/11/86	5.8	10.9	15.3	18.9	17.7	18.0	23.8	24.9	24.1	24.6	21.7
07/18/86	5.5	11.2	15.7	18.6	17.3	17.4	24.0	25.3	23.8	24.8	22.5
08/01/86	6.3	12.2	16.5	19.0	17.6	18.1	24.2	26.2	25.1	25.6	23.4
08/30/86	5.4	11.0	15.4	16.5	15.3	16.6	23.5	25.2	23.9	24.9	21.8
09/12/86	6.5	11.1	14.7	16.2	15.0	15.7	22.6	24.6	23.4	24.7	22.2
09/26/86	6.1	10.9	15.3	15.8	14.9	15.6	22.5	24.3	23.2	24.7	23.1
10/20/86	6.8	11.3	15.1	15.8	14.5	15.3	22.3	24.4	24.1	24.6	23.2
11/19/86	7.5	11.6	15.1	15.9	14.0	14.8	21.9	24.5	23.7	24.9	22.7
12/04/86	7.9	11.8	15.3	15.6	14.0	14.6	21.7	24.2	23.5	24.8	22.3

Table 13.--Volumetric moisture content of soils at neutron-probe access hole 7--Continued
[Moisture content in percent volume]

DATE	Depth below land surface, in meters						
	2.74	3.05	3.35	3.66	3.96	4.27	4.42
07/07/86	20.3	22.3	24.4	25.7	28.1	23.8	24.5
07/07/86	20.3	22.1	24.8	26.5	27.7	23.9	25.3
07/07/86	20.1	22.4	24.9	25.9	28.4	23.6	24.7
07/11/86	20.3	22.1	24.8	26.2	28.5	23.9	24.3
07/18/86	20.4	22.4	24.9	26.4	28.8	24.1	24.6
08/01/86	20.9	22.8	25.4	27.1	28.8	24.3	25.2
08/30/86	21.0	22.5	24.4	26.6	27.6	23.3	24.6
09/12/86	20.5	22.3	24.2	25.7	27.6	23.4	23.8
09/26/86	20.7	22.3	24.9	26.1	28.1	23.8	24.3
10/20/86	21.2	22.8	24.8	25.7	28.1	23.8	24.5
11/19/86	21.0	22.6	25.0	26.2	28.3	23.5	24.4
12/04/86	21.1	22.6	24.6	26.4	27.7	23.9	24.4

Table 14.--Volumetric moisture content of soils at neutron-probe access hole 8
[Moisture content in percent volume]

DATE	Depth below land surface, in meters										
	0.15	0.30	0.46	0.61	0.76	0.91	1.22	1.52	1.83	2.13	2.44
08/01/86	8.2	13.5	16.6	17.8	16.4	15.8	19.7	22.5	22.4	24.7	26.7
08/01/86	8.1	13.8	16.8	17.8	16.3	15.8	19.7	22.9	22.0	24.3	26.5
08/30/86	7.0	13.6	16.6	17.4	16.3	16.6	24.4	23.2	23.1	25.0	28.5
09/12/86	11.2	12.6	15.7	16.5	14.8	14.8	18.6	21.1	21.5	23.7	26.3
09/26/86	10.9	13.1	15.7	16.6	14.5	14.9	18.0	20.8	21.9	23.6	26.6
10/20/86	11.0	13.8	15.9	16.3	14.5	14.5	17.7	21.0	21.8	23.5	26.8
11/19/86	11.2	14.1	15.9	16.7	14.7	14.2	17.1	20.6	21.1	22.9	26.7
12/04/86	11.9	14.4	16.0	16.3	14.8	14.4	17.1	20.5	21.2	23.3	26.4

Table 14.--Volumetric moisture content of soils at neutron-probe access hole 8--Continued
[Moisture content in percent volume]

DATE	Depth below land surface, in meters									
	2.74	3.05	3.35	3.66	3.96	4.27	4.57	4.88	5.18	5.46
08/01/86	24.5	21.1	25.0	26.1	24.2	20.6	26.1	21.2	15.9	17.0
08/01/86	24.2	20.9	25.0	25.7	24.1	20.7	25.7	21.7	16.1	17.0
08/30/86	25.1	21.3	25.5	27.1	25.1	21.0	25.3	21.0	16.5	17.5
09/12/86	22.9	20.4	23.5	25.7	22.9	19.7	23.8	19.7	15.3	16.0
09/26/86	23.7	20.0	25.2	25.8	23.5	20.0	23.9	20.6	15.4	16.4
10/20/86	23.4	20.6	24.0	26.0	23.1	19.8	23.8	20.3	15.3	16.3
11/19/86	23.2	20.7	23.4	25.9	23.7	20.2	24.0	20.5	15.4	16.4
12/04/86	22.9	20.7	23.8	25.8	23.8	19.9	23.8	20.3	15.3	16.4

Table 15.--Volumetric moisture content of soils at neutron-probe access hole 9
[Moisture content in percent volume]

DATE	Depth below land surface, in meters										
	0.15	0.30	0.46	0.61	0.76	0.91	1.22	1.52	1.83	2.13	2.44
08/01/86	4.9	13.3	17.2	17.1	16.8	18.1	20.8	23.9	23.5	23.1	26.0
08/01/86	5.2	13.3	17.3	17.4	16.6	17.5	20.6	24.3	23.6	24.7	25.7
08/30/86	5.4	12.5	15.6	15.9	15.0	15.3	18.1	22.3	21.4	22.6	24.6
09/12/86	8.6	12.4	14.6	15.2	14.3	15.2	17.8	21.8	21.6	22.7	25.1
09/26/86	8.0	12.7	15.1	15.1	13.9	15.5	17.6	21.5	21.8	22.3	25.3
10/20/86	9.2	13.1	14.8	15.0	14.2	15.2	17.4	22.1	21.2	23.0	25.1
11/19/86	9.8	13.5	15.1	14.7	13.9	15.1	17.3	21.5	21.5	22.8	25.2
12/04/86	10.3	13.9	15.2	14.8	14.3	14.6	16.9	20.9	21.2	22.2	24.9

Table 15.--Volumetric moisture content of soils at neutron-probe access hole 9--continued
[Moisture content in percent volume]

DATE	Depth below land surface, in meters									
	2.74	3.05	3.35	3.66	3.96	4.27	4.57	4.88	5.18	5.33
08/01/86	22.5	20.7	25.2	24.9	26.7	21.9	24.5	18.1	17.9	18.1
08/01/86	22.9	21.0	25.5	24.9	26.6	21.7	24.2	18.1	17.9	18.1
08/30/86	23.3	19.6	25.2	26.4	24.1	20.6	23.8	19.0	16.6	16.6
09/12/86	23.5	19.4	25.2	26.2	24.0	20.1	23.8	18.5	16.1	16.5
09/26/86	23.4	19.2	25.7	25.8	24.3	20.8	24.1	18.8	16.1	16.2
10/20/86	23.8	19.6	25.6	26.6	24.3	20.4	24.3	18.7	16.5	16.4
11/19/86	23.9	20.0	25.5	26.4	24.5	20.8	24.5	19.1	16.5	16.6
12/04/86	23.3	19.2	25.2	26.2	23.9	20.5	24.6	18.8	16.5	16.4

Table 16.--Soil-moisture characteristic curve data for neutron-probe access hole 1

Sample depth (meters)	Soil bulk density (grams/cm ³)	Volume percent moisture	Percent moisture by volume at selected tensions (bars)						
			0.3	0.5	0.7	1.0	5.0	10.0	15.0
0.31	1.57	9.90	21.85	19.27	18.00	16.57	10.72	9.12	8.43
0.61	1.38	8.92	21.60	18.29	16.65	15.02	9.45	8.10	7.45
0.92	1.51	10.43	27.82	24.71	23.24	21.77	16.78	15.30	14.69
1.22	1.62	18.09	26.15	21.40	19.48	17.80	13.18	11.87	11.13
1.53	1.63	14.12	22.91	20.74	19.84	18.86	14.73	13.09	12.40
1.83	1.61	14.40	22.18	20.50	19.68	18.99	16.45	13.22	13.22
2.44	1.60	14.44	19.89	19.35	18.74	18.49	16.49	15.71	15.38
2.75	1.63	12.27	19.93	18.74	18.17	17.59	14.73	13.54	13.26
3.05	1.58	16.57	26.02	25.20	24.59	23.94	20.58	18.78	18.25
3.36	1.69	16.65	22.30	21.93	21.77	21.48	18.94	18.09	17.72
3.66	1.52	15.26	22.14	21.60	21.28	20.74	18.58	17.35	17.06
3.97	1.61	14.36	21.40	20.87	21.28	20.87	17.23	16.16	15.67
4.27	1.63	12.15	19.72	18.90	19.15	18.74	14.65	13.91	13.50
4.58	1.59	14.98	21.19	20.83	20.50	20.09	17.27	16.69	16.33
4.88	1.61	20.05	26.47	26.27	27.33	27.00	23.24	21.89	21.85
5.19	1.51	16.65	27.66	26.68	27.13	26.27	20.79	17.88	17.72
5.49	1.60	16.65	31.46	30.69	29.87	28.81	20.13	18.04	17.39

Table 17.--Soil-moisture characteristic curve data for neutron-probe access hole 2

Sample depth (meters)	Soil bulk density (grams/cm ³)	Volume percent moisture	Percent moisture by volume at selected tensions (bars)						
			0.3	0.5	0.7	1.0	5.0	10.0	15.0
0.61	1.51	28.36	26.80	26.31	24.96	23.85	15.38	12.97	11.99
1.22	1.20	11.70	23.61	22.87	20.87	19.60	14.24	12.73	12.11
1.83	1.52	16.90	26.55	26.47	25.33	24.43	19.76	18.04	17.55
2.44	1.63	19.60	28.15	28.40	27.91	27.54	24.51	23.00	22.50
3.05	1.64	22.18	29.99	30.11	29.50	29.05	26.27	24.22	23.77
3.66	1.46	21.81	29.38	29.38	28.76	28.15	25.25	23.77	23.24
4.27	1.65	23.53	29.71	29.71	29.13	28.68	26.35	25.08	24.55
4.88	1.61	21.85	32.20	32.41	32.08	31.46	26.19	23.85	23.12
5.49	1.33	11.42	27.29	26.92	23.69	21.32	14.69	13.26	12.48

Table 18. ---Soil-moisture characteristic curve data for neutron-probe access hole 6

Sample depth (meters)	Soil bulk density (grams/cm ³)	Volume percent moisture	Percent moisture by volume at selected tensions (bars)							
			0.3	0.5	0.7	1.0	5.0	10.0	15.0	
0.61	1.52	28.93	33.55	32.04	30.77	29.62	23.00	20.05	18.00	
1.22	1.53	14.53	21.60	20.05	18.94	17.96	15.79	12.56	10.84	
1.83	1.38	19.19	26.39	24.96	23.81	22.75	19.03	17.14	15.55	
2.44	1.28	12.15	22.55	22.26	20.29	19.27	15.55	14.24	13.05	
5.49	1.53	27.91	41.08	40.51	39.53	38.46	30.81	27.58	25.08	

Table 19.--Meteorological data at the test trench facility

Date	Hour	Global solar radiation (cal/cm2/6hr)	Reflected solar radiation (cal/cm2/6hr)	Mean wind speed (km/hr)	Mean wind vector (degrees)	Mean wind direction (degrees)	Average relative humidity (percent)	Average air temperature (Celsius)	Precipitation (millimeters)
06/18/86	1800	307.1	54.3	24.16	14.3	246.0	12.5	28.4	0.00
06/18/86	2400	26.8	6.3	21.13	12.2	247.3	19.4	20.4	0.00
06/19/86	600	0.6	0.2	20.94	12.6	224.0	31.2	12.9	0.00
06/19/86	1200	320.9	58.8	16.21	9.2	211.2	29.2	16.1	0.00
06/19/86	1800	405.6	71.9	15.58	9.1	209.9	14.4	22.4	0.00
06/19/86	2400	24.8	5.8	7.87	4.6	230.1	25.5	12.8	0.00
06/20/86	600	2.0	0.9	6.10	3.2	276.2	47.5	5.1	0.00
06/20/86	1200	322.4	58.6	9.23	2.3	236.8	23.5	18.6	0.00
06/20/86	1800	379.7	67.4	29.24	17.4	244.8	12.9	24.4	0.00
06/20/86	2400	13.7	3.0	15.06	8.2	237.8	17.3	16.8	0.00
06/21/86	600	3.2	1.5	8.98	5.2	225.6	40.9	8.6	0.00
06/21/86	1200	317.9	59.0	15.90	9.2	223.6	25.6	18.0	0.00
06/21/86	1800	392.4	70.2	17.06	9.6	229.6	16.1	24.1	0.00
06/21/86	2400	24.2	5.8	10.52	5.9	228.3	33.1	16.0	0.00
06/22/86	600	1.6	0.8	4.57	1.0	238.1	65.1	5.8	0.00
06/22/86	1200	321.6	59.5	8.34	2.1	62.1	29.5	18.8	0.00
06/22/86	1800	393.5	70.3	13.73	7.4	221.2	12.6	27.4	0.00
06/22/86	2400	24.8	5.4	7.34	4.0	228.7	28.5	17.2	0.00
06/23/86	600	2.9	1.4	4.43	1.3	307.8	55.8	7.5	0.00
06/23/86	1200	320.0	59.2	8.28	2.9	45.9	29.8	21.5	0.00
06/23/86	1800	395.9	70.3	13.21	7.1	231.6	10.6	31.2	0.00
06/23/86	2400	23.9	5.0	6.24	3.1	241.7	29.0	19.3	0.00
06/24/86	600	2.9	1.4	4.25	2.1	265.2	54.4	8.9	0.00
06/24/86	1200	291.7	54.9	8.52	3.9	50.7	27.2	23.0	0.00
06/24/86	1800	309.4	54.9	13.29	7.1	217.2	10.1	32.4	0.00
06/24/86	2400	2.4	0.4	8.99	1.5	140.6	39.5	20.1	1.27
06/25/86	600	1.7	0.7	5.99	1.8	272.3	72.4	11.0	0.00
06/25/86	1200	245.9	44.1	6.64	2.3	195.2	36.6	21.9	0.00
06/25/86	1800	262.0	45.2	21.18	11.4	214.4	20.7	27.5	1.02
06/25/86	2400	23.1	5.0	13.45	1.9	165.8	41.2	18.7	0.00
06/26/86	600	4.3	1.3	2.93	0.3	259.1	82.2	8.3	0.00
06/26/86	1200	303.8	54.8	7.38	2.5	93.3	38.1	22.5	0.00
06/26/86	1800	367.4	65.4	15.05	8.2	213.7	10.5	32.1	0.00
06/26/86	2400	6.4	0.4	5.64	2.6	227.9	54.5	20.7	0.00
06/27/86	600	1.3	0.4	3.87	1.2	271.9	54.5	11.5	0.00
06/27/86	1200	231.6	43.6	10.09	5.4	51.4	32.6	23.0	0.00
06/27/86	1800	305.9	55.9	15.88	8.8	230.3	10.9	31.8	0.00
06/27/86	2400	16.8	3.2	6.34	2.9	250.4	29.9	20.0	0.00
06/28/86	600	0.8	0.3	3.90	1.6	245.5	60.1	10.3	0.00
06/28/86	1200	220.8	42.4	10.63	3.6	62.4	29.8	23.2	0.00

Table 19.--Meteorological data at the test trench facility--Continued

Date	Hour	Global solar radiation (cal/cm2/6hr)	Reflected solar radiation (cal/cm2/6hr)	Mean wind speed (km/hr)	Mean wind vector (degrees)	Mean wind direction (degrees)	Average relative humidity (percent)	Average air temperature (Celsius)	Precipitation (millimeters)
06/28/86	1800	326.4	61.3	25.97	15.4	226.2	10.5	31.3	0.00
06/28/86	2400	24.7	6.0	13.16	7.7	236.8	18.7	22.1	0.00
06/29/86	600	0.4	0.0	9.30	4.3	244.0	26.6	16.7	0.00
06/29/86	1200	313.7	59.2	20.84	12.1	231.3	19.2	22.1	0.00
06/29/86	1800	392.8	71.8	30.88	18.4	248.9	12.4	26.4	0.00
06/29/86	2400	25.5	6.6	15.37	9.0	255.8	18.2	17.5	0.00
06/30/86	600	2.5	1.4	5.33	2.3	249.4	49.4	6.3	0.00
06/30/86	1200	318.1	60.1	11.64	6.0	237.2	21.9	20.2	0.00
06/30/86	1800	399.1	73.2	22.79	13.1	238.4	12.1	26.9	0.00
06/30/86	2400	25.2	6.5	14.69	8.8	226.4	15.8	18.8	0.00
07/01/86	600	2.4	1.4	6.29	3.2	255.3	44.7	8.1	0.00
07/01/86	1200	316.3	59.5	6.51	1.0	248.3	21.5	22.1	0.00
07/01/86	1800	397.0	72.6	14.24	7.4	234.7	10.3	30.8	0.00
07/01/86	2400	23.6	5.3	7.09	3.1	218.3	23.0	19.3	0.00
07/02/86	600	2.5	1.4	4.62	0.8	276.6	53.4	8.8	0.00
07/02/86	1200	311.2	59.8	10.27	4.8	53.6	22.3	23.7	0.00
07/02/86	1800	256.3	46.2	16.22	8.6	211.0	9.7	33.2	0.00
07/02/86	2400	16.8	3.7	10.09	4.4	201.3	17.3	23.9	0.00
07/03/86	600	0.7	0.3	17.03	10.3	219.0	33.6	17.3	0.00
07/03/86	1200	200.0	37.9	29.22	17.4	216.9	41.4	19.5	0.00
07/03/86	1800	370.5	69.9	33.62	19.9	250.9	13.8	27.6	0.00
07/03/86	2400	20.8	5.1	12.02	7.1	238.8	29.8	18.8	0.00
07/04/86	600	2.5	1.5	11.65	6.9	217.8	54.7	12.6	0.00
07/04/86	1200	311.9	60.8	29.29	17.4	224.1	27.7	21.4	0.00
07/04/86	1800	303.0	60.8	49.34	29.8	249.9	14.4	21.1	0.51
07/04/86	2400	27.3	7.9	24.28	14.4	241.9	28.0	10.0	0.00
07/05/86	600	2.8	1.9	14.63	8.7	217.7	60.6	3.3	0.00
07/05/86	1200	324.0	65.5	18.09	10.7	213.0	42.0	10.7	0.00
07/05/86	1800	400.5	78.3	16.62	9.3	216.3	15.7	18.7	0.00
07/05/86	2400	26.2	6.9	8.24	4.7	225.9	20.8	9.4	0.00
07/06/86	600	2.6	1.9	4.44	1.3	256.6	40.8	-0.8	0.00
07/06/86	1200	322.4	65.2	10.22	4.6	50.5	19.8	16.2	0.00
07/06/86	1800	307.8	59.8	12.70	6.2	218.9	12.6	24.6	0.00
07/06/86	2400	12.6	2.7	12.91	6.8	252.9	16.8	19.0	0.00
07/07/86	600	0.0	0.0	12.26	5.7	211.5	41.2	15.5	0.25
07/07/86	1200	124.2	24.1	7.83	2.9	15.0	35.4	18.2	0.00
07/07/86	1800	283.4	53.9	16.54	9.5	204.3	14.7	24.5	0.00
07/07/86	2400	12.7	2.6	10.66	3.8	148.9	28.0	18.2	0.00
07/08/86	600	0.0	0.3	8.46	4.7	54.0	59.6	11.3	0.00
07/08/86	1200	241.5	47.2	12.79	6.8	48.3	34.2	19.7	0.00

Table 19.--Meteorological data at the test trench facility--Continued

Date	Hour	Global solar radiation (cal/cm2/6hr)	Reflected solar radiation (cal/cm2/6hr)	Mean wind speed (km/hr)	Mean wind vector (degrees)	Mean wind direction (degrees)	Average relative humidity (percent)	Average air temperature (Celsius)	Precipitation (millimeters)
07/08/86	1800	228.2	42.2	12.44	2.6	339.5	14.5	26.2	0.00
07/08/86	2400	8.2	1.7	9.72	2.3	347.6	72.8	13.7	3.05
07/09/86	600	2.3	1.0	3.52	0.8	264.0	82.2	9.4	0.00
07/09/86	1200	275.0	48.6	15.63	5.2	250.2	42.0	18.7	0.25
07/09/86	1800	301.7	56.2	26.76	14.0	246.9	15.3	24.0	0.00
07/09/86	2400	11.0	2.2	8.55	4.9	283.8	34.4	17.1	0.00
07/10/86	600	0.6	0.5	3.40	0.8	220.0	73.2	11.0	0.00
07/10/86	1200	197.0	36.3	11.91	6.7	239.0	40.5	18.6	0.00
07/10/86	1800	253.2	46.9	26.62	15.8	250.9	18.5	23.9	0.00
07/10/86	2400	13.0	2.8	17.24	10.3	251.8	31.4	18.0	0.00
07/11/86	600	1.6	1.0	11.17	6.6	220.3	58.9	11.8	0.00
07/11/86	1200	276.7	53.1	23.91	14.2	238.7	34.3	19.7	0.00
07/11/86	1800	384.3	70.1	35.92	21.7	243.0	14.1	25.2	0.00
07/11/86	2400	11.4	2.7	11.96	7.0	251.5	21.0	16.2	0.00
07/12/86	600	0.8	0.8	7.99	1.9	311.7	27.4	10.1	0.00
07/12/86	1200	312.9	60.0	12.78	7.1	236.0	18.9	19.2	0.00
07/12/86	1800	397.9	73.7	28.65	17.1	235.7	12.3	26.4	0.00
07/12/86	2400	24.0	6.3	14.35	7.6	238.0	15.4	17.0	0.00
07/13/86	600	0.8	0.6	7.74	4.4	266.4	24.4	8.1	0.00
07/13/86	1200	308.6	59.0	9.89	2.5	189.1	15.8	21.4	0.00
07/13/86	1800	392.3	72.4	29.90	18.0	232.7	10.9	29.2	0.00
07/13/86	2400	24.0	6.4	18.36	10.9	235.6	14.8	21.1	0.00
07/14/86	600	1.5	0.5	6.60	2.5	267.4	22.4	12.8	0.00
07/14/86	1200	271.7	52.9	11.27	2.3	73.0	15.8	22.9	0.00
07/14/86	1800	387.7	72.4	30.05	17.5	243.6	10.3	31.3	0.00
07/14/86	2400	22.6	5.9	13.04	7.5	241.3	17.8	21.7	0.00
07/15/86	600	1.6	0.9	8.08	4.3	253.8	37.0	12.5	0.00
07/15/86	1200	260.1	51.6	13.13	7.2	213.0	20.8	21.8	0.00
07/15/86	1800	282.4	54.5	24.53	14.7	219.4	12.1	27.2	0.00
07/15/86	2400	14.5	3.4	15.63	8.6	175.6	27.8	21.0	0.00
07/16/86	600	0.3	0.2	5.72	1.4	350.7	62.6	13.1	0.00
07/16/86	1200	237.3	45.9	20.94	12.4	219.0	29.7	18.3	0.00
07/16/86	1800	295.8	56.9	29.74	17.8	247.2	12.7	24.4	0.00
07/16/86	2400	11.7	2.7	27.34	16.0	245.2	17.2	14.2	0.00
07/17/86	600	1.3	1.3	14.02	8.3	216.3	35.6	5.5	0.00
07/17/86	1200	312.1	62.4	10.63	5.3	219.5	23.0	14.8	0.00
07/17/86	1800	388.6	75.2	16.77	9.4	217.9	12.9	23.7	0.00
07/17/86	2400	19.8	5.2	8.46	3.8	239.6	16.5	14.6	0.00
07/18/86	600	0.3	0.4	6.81	2.6	29.2	18.1	11.7	0.00
07/18/86	1200	220.4	43.8	12.57	5.0	4.9	14.8	20.7	0.00

Table 19.--Meteorological data at the test trench facility--Continued

Date	Hour	Global solar radiation (cal/cm2/6hr)	Reflected solar radiation (cal/cm2/6hr)	Mean wind speed (km/hr)	Mean wind vector (degrees)	Mean wind direction (degrees)	Average relative humidity (percent)	Average air temperature (Celsius)	Precipitation (millimeters)
07/18/86	1800	376.8	71.6	10.70	3.9	304.7	12.1	27.0	0.00
07/18/86	2400	19.4	4.7	9.72	4.4	33.4	16.2	19.2	0.00
07/19/86	600	0.6	0.7	7.54	4.1	57.2	34.7	8.2	0.00
07/19/86	1200	295.4	59.4	14.21	8.1	44.0	17.4	22.1	0.00
07/19/86	1800	364.3	69.9	13.49	5.8	232.9	10.0	31.9	0.00
07/19/86	2400	19.4	4.8	8.34	3.3	261.1	15.6	20.0	0.00
07/20/86	600	0.4	0.5	4.40	1.6	253.2	29.9	8.7	0.00
07/20/86	1200	293.1	58.3	7.77	2.7	221.0	16.9	23.2	0.00
07/20/86	1800	364.0	68.8	10.66	4.1	177.6	10.3	31.2	0.00
07/20/86	2400	9.9	2.1	10.73	2.8	141.0	15.2	21.3	0.00
07/21/86	600	0.2	0.5	6.18	2.6	66.9	33.3	12.2	0.00
07/21/86	1200	293.1	58.9	11.57	5.2	64.4	19.6	23.1	0.00
07/21/86	1800	380.8	73.5	14.47	7.6	204.9	10.3	31.1	0.00
07/21/86	2400	19.5	5.1	12.07	7.3	210.0	14.4	22.0	0.00
07/22/86	600	0.0	0.0	9.23	3.9	244.2	22.8	13.3	0.00
07/22/86	1200	266.6	53.4	12.18	3.3	202.9	16.5	23.4	0.00
07/22/86	1800	233.7	44.3	23.21	9.1	194.2	29.3	24.8	10.92
07/22/86	2400	1.3	0.5	9.44	1.5	221.0	69.2	14.6	1.02
07/23/86	600	0.7	0.7	3.51	1.1	270.4	78.7	11.0	0.00
07/23/86	1200	198.7	32.4	8.10	1.4	247.1	52.7	19.1	0.00
07/23/86	1800	244.4	43.0	24.70	14.2	225.7	20.9	24.5	0.00
07/23/86	2400	6.6	1.4	18.80	11.4	223.2	49.7	17.1	0.00
07/24/86	600	0.0	0.3	6.32	2.3	268.4	75.4	12.5	0.00
07/24/86	1200	131.8	24.1	7.60	2.5	34.4	62.9	16.5	0.00
07/24/86	1800	249.8	45.0	20.65	11.9	218.8	26.4	23.9	0.00
07/24/86	2400	19.7	4.5	18.10	10.7	198.4	47.9	17.6	0.00
07/25/86	600	0.4	0.2	6.83	2.4	244.6	71.1	13.7	0.00
07/25/86	1200	248.7	46.9	9.12	3.0	231.3	46.1	19.9	0.00
07/25/86	1800	295.0	53.8	21.87	12.4	254.0	19.5	24.6	0.00
07/25/86	2400	8.7	1.8	11.39	3.4	262.6	40.3	16.0	0.00
07/26/86	600	0.1	0.5	3.53	0.5	22.3	74.6	9.0	0.00
07/26/86	1200	243.0	47.3	9.86	2.0	82.2	47.4	18.2	0.00
07/26/86	1800	336.0	62.7	21.63	10.9	271.8	17.1	24.1	0.00
07/26/86	2400	18.3	4.8	14.21	6.7	220.3	38.0	16.3	0.00
07/27/86	600	0.2	0.5	3.79	1.7	5.6	79.8	7.3	0.00
07/27/86	1200	136.4	23.6	6.31	2.0	38.6	71.6	13.0	1.27
07/27/86	1800	320.3	57.8	17.80	8.9	243.3	21.9	23.7	0.25
07/27/86	2400	17.5	4.4	12.86	3.4	211.0	40.1	17.0	0.00
07/28/86	600	0.3	0.6	4.13	1.9	26.8	80.7	6.9	0.00
07/28/86	1200	286.7	54.6	8.32	2.8	56.9	43.2	18.7	0.00

Table 19.--Meteorological data at the test trench facility--Continued

Date	Hour	Global solar radiation (cal/cm2/hr)	Reflected solar radiation (cal/cm2/hr)	Mean wind speed (km/hr)	Mean wind vector (degrees)	Mean wind direction (degrees)	Average relative humidity (percent)	Average air temperature (Celsius)	Precipitation (millimeters)
07/28/86	1800	338.4	61.4	22.00	12.6	234.4	11.6	29.3	0.00
07/28/86	2400	11.8	2.8	14.39	7.4	164.7	16.7	21.4	0.00
07/29/86	600	0.0	0.2	6.43	1.7	286.2	52.5	10.2	0.00
07/29/86	1200	254.6	49.9	23.22	13.5	234.6	25.3	21.2	0.00
07/29/86	1800	373.6	70.7	36.37	22.0	241.2	12.3	26.9	0.00
07/29/86	2400	17.5	4.8	18.73	11.1	238.8	16.1	19.4	0.00
07/30/86	600	0.0	0.4	6.10	2.8	237.7	39.3	9.3	0.00
07/30/86	1200	289.4	56.0	12.47	6.4	240.2	21.8	21.0	0.00
07/30/86	1800	372.6	70.8	26.83	16.0	239.3	12.1	27.5	0.00
07/30/86	2400	16.0	4.2	13.21	3.4	268.6	18.1	19.7	0.00
07/31/86	600	0.0	0.1	3.70	1.0	238.9	57.1	7.9	0.00
07/31/86	1200	288.1	56.4	7.83	0.8	66.9	24.5	20.6	0.00
07/31/86	1800	374.5	71.4	18.31	10.6	247.6	10.8	29.7	0.00
07/31/86	2400	16.1	4.3	12.12	6.9	236.6	14.9	20.5	0.00
08/01/86	600	0.0	0.2	5.12	2.4	244.6	39.2	8.6	0.00
08/01/86	1200	287.0	55.9	6.15	1.0	107.5	19.0	22.4	0.00
08/01/86	1800	369.6	69.7	8.48	1.6	225.7	10.2	31.4	0.00
08/01/86	2400	15.0	3.5	9.10	4.1	157.5	14.8	21.2	0.00
08/02/86	600	0.0	0.4	4.56	1.0	36.9	35.6	8.7	0.00
08/02/86	1200	284.1	56.6	9.72	4.2	51.2	19.3	23.0	0.00
08/02/86	1800	354.1	66.8	10.70	3.8	262.4	9.3	33.7	0.00
08/02/86	2400	13.0	2.8	9.90	3.5	14.2	13.1	23.8	0.00
08/03/86	600	0.0	0.0	7.07	1.9	37.0	22.8	14.3	0.00
08/03/86	1200	282.6	56.3	11.78	6.2	51.6	16.0	25.1	0.00
08/03/86	1800	365.2	71.0	20.28	10.8	243.1	9.1	34.1	0.00
08/03/86	2400	15.3	4.4	14.90	3.0	315.8	14.5	23.3	0.00
08/04/86	600	0.0	0.0	4.94	1.6	250.5	36.1	10.8	0.00
08/04/86	1200	269.8	54.0	6.81	2.2	174.7	18.2	24.1	0.00
08/04/86	1800	294.4	57.5	12.15	4.5	261.8	10.4	30.9	0.00
08/04/86	2400	10.9	2.1	5.94	2.9	236.3	17.0	19.3	0.00
08/05/86	600	0.0	0.0	5.09	2.1	258.0	33.4	10.7	0.00
08/05/86	1200	256.2	52.5	6.51	0.4	188.2	17.9	23.0	0.00
08/05/86	1800	346.0	69.6	19.83	11.1	250.5	9.6	32.6	0.00
08/05/86	2400	11.8	3.2	10.90	6.3	264.7	14.4	20.7	0.00
08/06/86	600	0.0	0.0	5.18	2.1	239.4	23.4	9.1	0.00
08/06/86	1200	265.9	54.4	6.50	1.2	141.5	15.6	23.0	0.00
08/06/86	1800	336.8	66.9	13.00	5.6	250.7	9.2	33.8	0.00
08/06/86	2400	11.2	2.7	7.51	3.0	282.3	13.5	23.3	0.00
08/07/86	600	0.0	0.0	6.77	1.9	312.7	21.3	15.8	0.00
08/07/86	1200	264.3	53.8	9.41	3.9	38.6	14.8	24.6	0.00

Table 19.--Meteorological data at the test trench facility--Continued

Date	Hour	Global solar radiation (cal/cm2/hr)	Reflected solar radiation (cal/cm2/hr)	Mean wind speed (km/hr)	Mean wind vector (degrees)	Mean wind direction (degrees)	Average relative humidity (percent)	Average air temperature (Celsius)	Precipitation (millimeters)
08/07/86	1800	184.0	36.3	24.94	3.4	349.7	12.4	28.1	0.00
08/07/86	2400	13.1	3.5	12.05	5.2	36.8	31.7	17.5	0.00
08/08/86	600	0.0	0.2	10.02	1.4	339.7	49.9	14.1	0.00
08/08/86	1200	247.3	48.7	13.39	7.2	40.7	22.9	23.0	0.00
08/08/86	1800	357.6	69.1	12.31	4.3	276.5	16.4	31.5	0.00
08/08/86	2400	7.6	1.2	5.31	0.2	326.0	10.4	20.8	0.00
08/09/86	600	0.0	0.0	4.01	1.1	259.1	43.5	10.1	0.00
08/09/86	1200	259.5	53.2	9.69	4.7	45.7	25.3	22.2	0.00
08/09/86	1800	205.5	39.0	10.32	4.3	264.9	10.6	30.5	0.00
08/09/86	2400	4.7	0.6	5.95	2.0	29.3	18.0	17.9	0.00
08/10/86	600	0.0	0.0	7.45	2.6	36.1	40.0	11.7	0.00
08/10/86	1200	267.1	54.7	9.95	5.1	51.7	22.2	23.1	0.00
08/10/86	1800	300.8	57.4	11.18	4.0	275.8	9.5	33.1	0.00
08/10/86	2400	5.5	0.9	11.97	5.3	15.3	13.9	22.9	0.00
08/11/86	600	0.0	0.0	8.50	3.7	48.0	25.3	15.8	0.00
08/11/86	1200	199.8	40.7	9.99	4.7	47.0	20.6	21.9	0.00
08/11/86	1800	274.8	53.7	15.64	7.7	233.4	10.1	32.0	0.00
08/11/86	2400	9.7	2.7	14.52	8.5	223.2	14.5	22.4	0.00
08/12/86	600	0.0	0.0	5.64	2.3	262.7	32.8	11.2	0.00
08/12/86	1200	260.0	54.4	25.97	15.3	229.6	23.2	20.4	0.00
08/12/86	1800	354.0	72.5	38.75	23.4	236.6	11.7	27.2	0.00
08/12/86	2400	11.1	3.5	16.25	1.1	158.7	15.7	19.3	0.00
08/13/86	600	0.0	0.0	7.49	3.5	71.5	35.7	9.4	0.00
08/13/86	1200	264.8	55.4	10.19	4.2	45.9	21.8	19.5	0.00
08/13/86	1800	340.4	68.4	8.73	1.7	222.4	11.7	27.5	0.00
08/13/86	2400	9.0	2.4	9.44	4.2	164.5	16.8	18.5	0.00
08/14/86	600	0.0	0.0	5.38	2.8	264.5	36.7	8.1	0.00
08/14/86	1200	263.1	54.6	7.15	0.7	136.9	22.9	20.4	0.00
08/14/86	1800	341.8	70.0	16.53	9.5	216.2	10.8	29.6	0.00
08/14/86	2400	8.9	2.7	13.97	8.5	212.9	14.3	21.3	0.00
08/15/86	600	0.0	0.0	7.91	3.9	246.4	26.7	10.5	0.00
08/15/86	1200	256.3	54.0	6.61	0.9	202.5	18.5	21.2	0.00
08/15/86	1800	331.3	68.5	22.27	12.7	240.8	9.7	32.5	0.00
08/15/86	2400	9.5	2.9	13.70	7.8	253.9	13.6	22.1	0.00
08/16/86	600	0.0	0.0	6.01	3.1	223.9	20.8	10.9	0.00
08/16/86	1200	209.2	44.7	6.92	2.9	40.4	15.8	21.6	0.00
08/16/86	1800	243.6	50.1	12.02	1.3	343.3	9.9	32.1	0.00
08/16/86	2400	5.2	1.0	10.24	5.8	54.9	14.3	22.4	0.00
08/17/86	600	0.0	0.0	4.95	1.2	272.5	32.5	11.0	0.00
08/17/86	1200	232.6	48.2	7.95	3.3	76.7	20.9	22.4	0.00

Table 19.--Meteorological data at the test trench facility--Continued

Date	Hour	Global solar radiation (cal/cm2/6hr)	Reflected solar radiation (cal/cm2/6hr)	Mean wind speed (km/hr)	Mean wind vector (degrees)	Mean wind direction (degrees)	Average relative humidity (percent)	Average air temperature (Celsius)	Precipitation (millimeters)
08/17/86	1800	314.3	63.7	14.05	6.9	244.6	9.5	33.4	0.00
08/17/86	2400	8.8	2.1	8.17	1.5	353.8	14.1	22.3	0.00
08/18/86	600	0.0	0.0	5.20	2.1	244.3	27.3	12.1	0.00
08/18/86	1200	253.3	52.3	6.10	2.3	205.9	15.7	25.1	0.00
08/18/86	1800	335.8	69.0	19.87	11.5	228.7	8.7	35.2	0.00
08/18/86	2400	9.4	2.6	8.29	4.5	241.9	13.6	21.9	0.00
08/19/86	600	0.0	0.0	5.13	1.9	252.6	17.3	14.9	0.00
08/19/86	1200	95.4	19.5	8.19	2.4	42.4	15.1	21.1	0.00
08/19/86	1800	121.4	24.6	14.03	6.9	304.3	20.3	25.2	0.51
08/19/86	2400	2.2	0.0	3.27	1.1	26.2	44.3	14.8	0.00
08/20/86	600	0.0	0.0	3.14	1.2	250.6	71.2	8.5	0.00
08/20/86	1200	229.8	49.6	13.61	7.9	47.1	35.8	19.2	0.00
08/20/86	1800	282.3	54.6	10.72	5.2	61.0	10.8	30.6	0.00
08/20/86	2400	1.8	0.3	12.67	5.8	160.8	23.3	21.8	0.00
08/21/86	600	0.0	0.1	11.27	6.6	58.0	57.3	16.4	0.00
08/21/86	1200	189.0	38.1	27.37	14.9	236.5	49.7	18.7	0.00
08/21/86	1800	327.4	67.8	29.58	12.3	298.4	18.1	24.6	0.00
08/21/86	2400	7.2	2.6	15.27	7.9	60.9	29.8	15.0	0.00
08/22/86	600	0.0	0.0	5.32	2.4	48.9	66.0	5.2	0.00
08/22/86	1200	254.2	54.7	12.99	7.4	52.6	34.6	16.8	0.00
08/22/86	1800	324.5	65.7	9.82	2.6	101.6	11.6	28.1	0.00
08/22/86	2400	2.0	0.1	6.63	3.0	107.7	15.8	18.3	0.00
08/23/86	600	0.0	0.2	6.87	3.5	39.9	29.1	11.5	0.00
08/23/86	1200	118.0	17.9	11.54	5.2	54.1	69.2	14.8	7.37
08/23/86	1800	305.8	51.9	7.97	3.4	82.1	31.5	24.8	0.00
08/23/86	2400	6.2	2.0	7.55	3.5	31.7	58.3	15.9	0.00
08/24/86	600	0.0	0.2	2.32	0.7	229.7	80.9	8.3	0.00
08/24/86	1200	247.6	48.7	6.82	2.9	65.1	50.8	19.1	0.00
08/24/86	1800	331.2	62.3	11.88	5.4	245.7	10.6	31.8	0.00
08/24/86	2400	7.4	2.0	12.49	6.4	234.9	17.0	24.1	0.00
08/25/86	600	0.0	0.0	5.62	1.7	264.7	50.9	14.3	0.00
08/25/86	1200	205.8	39.8	11.23	5.7	56.2	38.6	21.2	0.00
08/25/86	1800	229.8	43.7	13.07	6.5	49.7	15.9	28.1	0.00
08/25/86	2400	5.2	1.4	7.91	4.0	42.3	36.5	18.9	0.00
08/26/86	600	0.0	0.0	3.32	1.2	259.1	71.3	10.5	0.00
08/26/86	1200	247.6	48.6	7.14	2.8	45.9	38.7	21.4	0.00
08/26/86	1800	223.6	42.2	11.43	2.3	313.4	11.2	30.1	0.00
08/26/86	2400	3.4	0.4	4.44	1.1	323.3	26.5	17.6	0.00
08/27/86	600	0.0	0.0	4.17	1.1	269.5	55.8	9.7	0.00
08/27/86	1200	246.9	50.1	10.50	4.9	46.9	28.4	21.7	0.00

Table 19.--Meteorological data at the test trench facility--Continued

Date	Hour	Global solar radiation (cal/cm2/hr)	Reflected solar radiation (cal/cm2/hr)	Mean wind speed (km/hr)	Mean wind vector (degrees)	Mean wind direction (degrees)	Average relative humidity (percent)	Average air temperature (Celsius)	Precipitation (millimeters)
08/27/86	1800	317.2	60.4	8.39	2.1	221.6	9.5	33.6	0.00
08/27/86	2400	3.5	0.2	4.84	0.8	70.7	16.7	21.1	0.00
08/28/86	600	0.0	0.0	4.49	1.1	250.7	43.2	10.1	0.00
08/28/86	1200	244.4	49.4	7.53	1.2	20.6	24.3	22.2	0.00
08/28/86	1800	326.0	64.4	17.62	10.0	225.5	10.1	32.2	0.00
08/28/86	2400	7.2	2.2	17.65	10.2	219.5	19.2	22.8	0.00
08/29/86	600	0.0	0.0	10.55	5.6	228.4	38.7	17.6	0.00
08/29/86	1200	189.4	37.0	12.86	7.4	44.3	42.5	19.4	0.00
08/29/86	1800	232.8	43.9	15.67	7.3	58.2	33.6	23.9	1.27
08/29/86	2400	1.1	0.7	10.49	5.5	54.4	77.0	12.9	0.00
08/30/86	600	0.0	0.1	3.49	1.3	313.2	80.7	8.5	0.00
08/30/86	1200	68.7	13.6	7.90	3.0	58.6	74.8	13.4	2.03
08/30/86	1800	179.1	29.9	9.25	4.2	62.3	46.8	21.0	0.00
08/30/86	2400	4.2	1.3	7.48	3.6	53.1	67.0	14.0	0.00
08/31/86	600	0.0	0.0	7.87	4.3	219.8	77.4	8.1	0.00
08/31/86	1200	204.3	40.6	21.53	12.8	226.0	46.2	13.9	0.00
08/31/86	1800	177.3	33.2	13.26	0.6	99.5	26.9	18.9	0.00
08/31/86	2400	0.3	0.1	6.12	2.4	10.3	56.2	12.1	0.00
09/01/86	600	0.0	0.0	3.66	1.0	244.7	76.5	6.6	0.00
09/01/86	1200	214.6	41.0	9.10	2.3	236.8	44.4	15.5	0.00
09/01/86	1800	277.9	51.8	13.24	6.4	244.6	18.2	22.6	0.00
09/01/86	2400	0.3	0.5	11.86	3.9	349.2	57.1	14.1	5.33
09/02/86	600	0.0	0.5	3.40	0.5	329.4	77.8	10.7	0.00
09/02/86	1200	237.5	38.3	6.66	1.7	30.4	53.1	16.3	0.00
09/02/86	1800	267.4	49.0	12.23	6.6	256.0	20.2	23.0	0.00
09/02/86	2400	1.4	0.4	6.96	2.6	233.6	38.7	15.5	0.00
09/03/86	600	0.0	0.0	4.25	0.9	200.8	69.4	7.1	0.00
09/03/86	1200	243.3	45.7	6.74	0.6	137.5	39.6	17.0	0.00
09/03/86	1800	304.6	55.2	7.83	0.9	243.4	13.1	26.4	0.00
09/03/86	2400	1.0	0.2	7.93	3.5	113.4	26.5	17.2	0.00
09/04/86	600	0.0	0.0	3.44	0.7	222.3	67.3	6.9	0.00
09/04/86	1200	238.2	45.7	6.47	0.6	110.4	40.0	17.5	0.00
09/04/86	1800	271.6	53.3	17.11	9.8	231.2	11.9	28.2	0.00
09/04/86	2400	1.7	0.7	12.17	7.0	222.9	17.0	18.7	0.00
09/05/86	600	0.0	0.0	6.10	3.4	237.0	41.0	7.8	0.00
09/05/86	1200	236.9	46.1	6.57	1.5	167.3	24.4	19.8	0.00
09/05/86	1800	300.9	57.8	22.14	13.0	243.7	10.8	29.6	0.00
09/05/86	2400	1.3	0.7	11.88	2.1	59.7	21.4	18.5	0.00
09/06/86	600	0.0	0.0	4.94	2.0	49.1	55.5	7.3	0.00
09/06/86	1200	212.6	41.3	12.44	7.0	61.7	40.0	14.2	0.00

Table 19.--Meteorological data at the test trench facility--Continued

Date	Hour	Global solar radiation (cal/cm2/6hr)	Reflected solar radiation (cal/cm2/6hr)	Mean wind speed (km/hr)	Mean wind vector (degrees)	Mean wind direction (degrees)	Average relative humidity (percent)	Average air temperature (Celsius)	Precipitation (millimeters)
09/06/86	1800	298.2	56.9	14.47	7.9	54.2	13.7	25.1	0.00
09/06/86	2400	1.2	0.6	11.31	6.8	52.4	27.4	14.6	0.00
09/07/86	600	0.0	0.2	5.14	1.5	359.8	49.8	7.7	0.00
09/07/86	1200	106.1	20.0	11.41	5.1	61.8	42.1	13.3	0.00
09/07/86	1800	235.9	44.9	12.09	5.3	133.1	14.6	25.0	0.00
09/07/86	2400	0.7	0.2	6.73	2.2	213.3	31.2	14.5	0.00
09/08/86	600	0.0	0.0	5.23	1.3	357.1	62.8	7.4	0.00
09/08/86	1200	136.9	26.2	9.98	2.3	54.2	45.6	16.0	0.00
09/08/86	1800	213.3	41.2	26.02	14.9	240.5	25.8	19.9	0.00
09/08/86	2400	0.3	0.3	12.35	6.8	223.0	47.8	11.8	0.00
09/09/86	600	0.0	0.0	7.41	3.9	230.9	72.1	6.0	0.00
09/09/86	1200	100.3	19.3	6.72	2.6	196.1	58.9	11.2	0.00
09/09/86	1800	141.2	26.4	11.83	1.2	199.0	45.5	14.1	16.51
09/09/86	2400	0.2	0.4	7.60	2.7	277.1	77.0	8.1	0.25
09/10/86	600	0.0	0.0	8.70	4.8	217.1	78.2	6.3	0.00
09/10/86	1200	231.1	39.0	10.91	5.8	250.1	50.5	11.5	0.00
09/10/86	1800	268.4	47.2	16.96	9.9	230.9	23.1	17.9	0.00
09/10/86	2400	0.0	0.0	17.53	10.6	226.5	31.2	12.2	0.00
09/11/86	600	0.0	0.0	14.03	8.4	221.7	51.3	6.6	0.00
09/11/86	1200	231.5	44.6	10.48	4.8	251.1	37.8	13.2	0.00
09/11/86	1800	274.1	53.2	25.39	15.2	241.0	14.6	21.0	0.00
09/11/86	2400	0.0	0.0	7.84	4.3	237.0	29.6	10.8	0.00
09/12/86	600	0.0	0.0	4.68	1.3	0.7	49.0	6.7	0.00
09/12/86	1200	217.2	43.4	11.49	6.2	53.8	37.1	14.3	0.00
09/12/86	1800	197.3	36.7	13.42	6.5	190.7	13.5	23.6	0.00
09/12/86	2400	0.0	0.0	9.43	2.0	152.0	17.5	16.2	0.00
09/13/86	600	0.0	0.0	14.19	8.2	39.9	31.6	12.0	0.00
09/13/86	1200	161.4	31.0	10.86	1.2	119.5	25.3	15.9	0.00
09/13/86	1800	269.2	52.4	17.49	9.6	232.8	14.3	22.4	0.00
09/13/86	2400	0.7	0.1	13.34	7.8	261.5	26.6	14.0	0.00
09/14/86	600	0.0	0.3	5.53	0.3	253.1	57.7	1.27	9.8
09/14/86	1200	143.0	21.0	10.30	5.0	270.7	69.1	10.5	2.79
09/14/86	1800	114.4	18.3	13.12	7.2	247.7	47.4	13.9	0.00
09/14/86	2400	0.0	0.3	8.47	2.1	288.1	66.6	10.2	0.76
09/15/86	600	0.0	0.2	3.94	1.8	53.9	78.9	6.1	0.00
09/15/86	1200	220.2	37.5	8.11	3.9	66.6	54.4	12.1	0.00
09/15/86	1800	224.1	41.5	18.75	10.0	245.9	20.8	18.8	0.00
09/15/86	2400	0.0	0.0	9.21	5.1	253.3	54.8	9.3	0.00
09/16/86	600	0.0	0.0	4.08	1.9	233.4	78.2	2.7	0.00
09/16/86	1200	159.7	31.3	7.69	4.2	244.8	49.0	9.9	0.00

Table 19.--Meteorological data at the test trench facility--Continued

Date	Hour	Global solar radiation (cal/cm2/6hr)	Reflected solar radiation (cal/cm2/6hr)	Mean wind speed (km/hr)	Mean wind vector (degrees)	Mean wind direction (degrees)	Average relative humidity (percent)	Average air temperature (Celsius)	Precipitation (millimeters)
09/16/86	1800	219.7	40.9	14.52	8.2	237.4	15.5	18.3	0.00
09/16/86	2400	0.0	0.0	12.18	6.5	243.2	70.8	7.0	1.02
09/17/86	600	0.0	0.0	13.23	7.5	223.1	73.8	3.7	0.00
09/17/86	1200	192.2	34.6	6.23	1.8	235.8	54.3	8.9	0.00
09/17/86	1800	179.5	32.5	13.52	6.9	230.8	21.4	15.9	0.25
09/17/86	2400	0.0	0.3	8.59	3.2	248.7	68.0	8.3	0.00
09/18/86	600	0.0	0.0	14.45	8.6	211.9	69.2	6.5	0.00
09/18/86	1200	167.2	31.9	7.94	1.7	227.8	54.6	9.6	0.00
09/18/86	1800	180.6	33.9	10.49	3.7	256.4	22.2	14.4	0.00
09/18/86	2400	0.0	0.0	6.60	2.0	9.8	59.7	5.1	0.00
09/19/86	600	0.0	0.1	7.12	4.1	39.9	81.5	1.4	0.00
09/19/86	1200	59.5	10.7	15.55	8.3	62.6	71.6	5.5	0.00
09/19/86	1800	112.3	17.0	12.18	6.8	68.7	67.7	8.0	1.02
09/19/86	2400	0.0	0.0	3.28	0.5	251.7	76.6	3.7	0.00
09/20/86	600	0.0	0.3	3.55	0.7	294.6	82.8	1.4	0.00
09/20/86	1200	110.9	19.3	11.43	6.6	262.0	71.6	5.4	0.00
09/20/86	1800	148.6	28.5	19.87	11.6	224.2	41.7	9.7	0.00
09/20/86	2400	0.0	0.0	7.19	3.2	199.8	64.2	1.6	0.00
09/21/86	600	0.0	0.2	4.46	1.2	12.2	81.7	-2.8	0.00
09/21/86	1200	207.8	38.7	5.53	1.0	56.9	61.8	5.7	0.00
09/21/86	1800	260.1	48.5	12.01	6.2	232.0	18.6	15.0	0.00
09/21/86	2400	0.0	0.0	4.68	1.8	229.1	44.2	2.1	0.00
09/22/86	600	0.0	0.0	4.09	1.5	274.6	74.9	-4.0	0.00
09/22/86	1200	217.8	41.3	5.66	1.5	62.0	42.3	7.6	0.00
09/22/86	1800	257.0	48.4	9.63	4.5	234.3	15.3	18.3	0.00
09/22/86	2400	0.0	0.0	3.98	2.2	231.0	35.0	4.1	0.00
09/23/86	600	0.0	0.0	3.14	1.6	240.6	69.7	-3.4	0.00
09/23/86	1200	210.5	41.4	5.36	1.6	109.0	36.4	8.6	0.00
09/23/86	1800	247.6	47.9	20.23	11.9	217.1	14.4	19.9	0.00
09/23/86	2400	0.0	0.0	11.81	5.6	187.7	27.9	11.9	0.00
09/24/86	600	0.0	0.0	8.14	1.4	243.4	46.3	9.1	0.00
09/24/86	1200	83.7	15.5	22.88	13.2	231.0	34.5	10.2	0.00
09/24/86	1800	170.4	34.2	29.82	18.1	227.6	29.1	12.4	0.00
09/24/86	2400	0.0	0.0	26.39	15.7	223.1	64.1	5.9	0.00
09/25/86	600	0.0	0.0	24.06	14.6	223.4	75.5	3.4	0.00
09/25/86	1200	210.7	43.8	32.09	19.2	230.4	52.5	5.8	0.00
09/25/86	1800	186.5	37.4	37.67	22.9	242.9	21.5	9.5	0.00
09/25/86	2400	0.0	0.0	22.69	13.6	228.2	44.0	4.5	0.00
09/26/86	600	0.0	0.0	16.67	10.1	212.6	73.2	2.0	0.00
10/03/86	600	0.0	0.0	4.28	1.0	269.6	70.3	-2.5	0.00

Table 19.--Meteorological data at the test trench facility--Continued

Date	Hour	Global solar radiation (cal/cm2/6hr)	Reflected solar radiation (cal/cm2/6hr)	Mean wind speed (km/hr)	Mean wind vector (degrees)	Mean wind direction (degrees)	Average relative humidity (percent)	Average air temperature (Celsius)	Precipitation (millimeters)
10/03/86	1200	201.4	37.6	6.20	1.3	155.6	47.1	6.0	0.00
10/03/86	1800	227.7	43.6	10.89	5.0	249.3	18.5	14.0	0.00
10/03/86	2400	0.0	0.0	7.28	3.5	218.3	54.1	3.8	0.00
10/04/86	600	0.0	0.0	4.98	1.8	256.4	78.7	-2.0	0.00
10/04/86	1200	182.0	35.1	8.68	4.5	235.8	52.5	6.4	0.00
10/04/86	1800	217.0	42.1	12.36	6.8	222.4	20.2	15.8	0.00
10/04/86	2400	0.0	0.0	8.79	1.0	300.2	40.1	7.7	0.00
10/05/86	600	0.0	0.0	4.70	1.0	259.7	65.5	2.3	0.00
10/05/86	1200	186.6	36.8	7.25	3.4	57.5	49.2	8.9	0.00
10/05/86	1800	214.6	40.6	7.06	2.5	147.5	17.0	18.4	0.00
10/05/86	2400	0.0	0.0	7.20	3.9	243.4	40.3	7.0	0.00
10/06/86	600	0.0	0.0	4.80	1.9	252.8	71.2	0.5	0.00
10/06/86	1200	183.6	35.7	5.12	0.7	36.3	47.7	9.1	0.00
10/06/86	1800	209.7	40.7	11.38	6.1	219.7	16.3	20.4	0.00
10/06/86	2400	0.0	0.0	9.77	5.7	239.5	36.4	8.5	0.00
10/07/86	600	0.0	0.0	5.28	2.6	268.4	69.1	0.8	0.00
10/07/86	1200	180.9	36.1	6.24	1.3	61.1	50.2	8.6	0.00
10/07/86	1800	203.7	40.8	16.54	9.7	231.1	18.2	20.0	0.00
10/07/86	2400	0.0	0.0	10.48	6.0	230.4	40.7	10.5	0.00
10/08/86	600	0.0	0.0	4.44	1.8	250.4	76.4	1.3	0.00
10/08/86	1200	178.8	36.3	9.05	4.2	49.1	52.9	8.5	0.00
10/08/86	1800	204.1	39.5	8.22	2.2	94.3	15.1	20.4	0.00
10/08/86	2400	0.0	0.0	4.48	1.2	273.3	37.2	5.5	0.00
10/09/86	600	0.0	0.0	4.28	1.5	234.0	69.5	-1.8	0.00
10/09/86	1200	175.6	36.0	6.09	1.1	41.9	44.7	8.4	0.00
10/09/86	1800	195.9	39.9	17.49	10.1	233.4	14.8	20.1	0.00
10/09/86	2400	0.0	0.0	8.51	4.8	233.9	31.8	7.7	0.00
10/10/86	600	0.0	0.0	6.93	3.4	249.9	61.7	1.5	0.00
10/10/86	1200	163.4	34.3	13.44	5.5	53.1	46.1	7.7	0.00
10/10/86	1800	95.2	17.4	29.50	17.7	42.8	49.8	7.0	2.54
10/10/86	2400	0.0	0.0	26.49	15.8	25.3	38.0	2.6	0.00
10/11/86	600	0.0	0.0	19.76	11.9	32.7	35.4	-0.7	0.00
10/11/86	1200	183.2	38.7	22.96	13.7	35.3	26.0	3.1	0.00
10/11/86	1800	211.5	43.9	25.22	15.1	40.0	18.1	9.4	0.00
10/11/86	2400	0.0	0.0	6.85	1.7	33.6	33.0	-2.9	0.00
10/12/86	600	0.0	0.0	3.91	1.4	285.6	69.2	-10.0	0.00
10/12/86	1200	183.0	36.5	5.22	2.5	204.5	40.4	1.2	0.00
10/12/86	1800	201.4	41.7	15.30	8.9	231.7	17.1	12.3	0.00
10/12/86	2400	0.0	0.0	13.47	8.2	221.0	25.6	3.4	0.00
10/13/86	600	0.0	0.0	6.30	3.3	263.5	60.4	-5.3	0.00

Table 19.--Meteorological data at the test trench facility--Continued

Date	Hour	Global solar radiation (ca 1/cm2/6hr)	Reflected solar radiation (ca 1/cm2/6hr)	Mean wind speed (km/hr)	Mean wind vector (degrees)	Mean wind direction (degrees)	Average relative humidity (percent)	Average air temperature (Celsius)	Precipitation (millimeters)
10/13/86	1200	176.2	35.9	5.61	0.9	113.8	40.8	2.5	0.00
10/13/86	1800	182.9	36.1	12.70	7.5	220.4	16.8	14.2	0.00
10/13/86	2400	0.0	0.0	6.59	2.6	259.9	29.1	2.6	0.00
10/14/86	600	0.0	0.0	4.19	2.0	228.5	68.1	-5.7	0.00
10/14/86	1200	168.0	34.6	8.07	3.2	57.7	44.6	2.8	0.00
10/14/86	1800	173.7	33.9	7.56	3.7	63.7	16.2	15.4	0.00
10/14/86	2400	0.0	0.0	4.65	0.9	21.3	33.9	0.1	0.00
10/15/86	600	0.0	0.0	3.91	1.2	251.5	65.6	-6.4	0.00
10/15/86	1200	170.0	35.5	7.95	2.8	60.9	40.7	4.6	0.00
10/15/86	1800	186.1	37.4	6.54	2.8	69.7	15.1	18.0	0.00
10/15/86	2400	0.0	0.0	2.96	0.3	160.8	30.7	0.0	0.00
10/16/86	600	0.0	0.0	3.37	1.5	222.0	60.8	-6.4	0.00
10/16/86	1200	165.4	35.5	8.25	3.4	51.3	37.2	4.8	0.00
10/16/86	1800	183.7	37.6	9.01	3.7	167.5	14.7	19.0	0.00
10/16/86	2400	0.0	0.0	5.27	0.7	224.1	26.1	2.7	0.00
10/17/86	600	0.0	0.1	4.10	1.7	230.9	51.2	-4.0	0.00
10/17/86	1200	145.7	30.1	7.11	3.1	52.7	32.1	6.7	0.00
10/17/86	1800	140.7	28.1	9.10	4.7	265.3	15.4	17.4	0.00
10/17/86	2400	0.0	0.0	5.76	2.0	237.3	24.3	5.3	0.00
10/18/86	600	0.0	0.1	6.80	1.6	0.4	53.0	5.1	3.81
10/18/86	1200	82.9	13.0	6.66	2.9	21.0	75.1	6.7	0.25
10/18/86	1800	84.2	13.6	15.76	9.4	33.2	59.8	10.1	0.00
10/18/86	2400	0.0	0.0	10.55	5.9	45.7	61.8	6.9	0.25
10/19/86	600	0.0	0.0	6.10	3.3	47.7	73.6	2.6	0.00
10/19/86	1200	92.7	17.0	17.64	10.4	40.0	45.4	9.1	0.00
10/19/86	1800	124.6	24.1	20.63	12.3	30.8	18.9	16.1	0.00
10/19/86	2400	0.0	0.0	11.54	3.9	223.0	54.3	9.8	0.00
10/20/86	600	0.0	0.0	5.12	1.6	35.4	75.8	6.0	0.00
10/20/86	1200	91.0	17.2	6.34	2.5	59.6	59.4	9.4	0.00
10/20/86	1800	75.8	13.5	6.01	1.1	184.7	26.8	15.0	0.00
10/20/86	2400	0.0	0.1	7.54	3.6	234.0	70.6	9.0	6.35
10/21/86	600	0.0	0.2	3.22	1.1	240.3	79.8	6.6	0.00
10/21/86	1200	53.6	7.6	4.17	1.7	235.1	77.0	8.4	0.00
10/21/86	1800	155.1	28.3	13.31	7.9	213.3	52.0	12.8	0.00
10/21/86	2400	0.0	0.0	5.80	3.2	253.0	78.1	4.5	0.00
10/22/86	600	0.0	0.2	3.14	1.6	261.7	81.6	-0.2	0.00
10/22/86	1200	157.0	26.7	4.17	0.7	27.5	59.2	6.1	0.00
10/22/86	1800	166.5	29.3	3.69	0.9	153.0	17.9	16.4	0.00
10/22/86	2400	0.0	0.0	4.51	2.0	241.2	68.7	2.3	0.00
10/23/86	600	0.0	0.0	3.60	0.5	14.8	78.7	-2.5	0.00

Table 19.--Meteorological data at the test trench facility--Continued

Date	Hour	Global solar radiation (cal/cm2/6hr)	Reflected solar radiation (cal/cm2/6hr)	Mean wind speed (km/hr)	Mean wind vector (degrees)	Mean wind direction (degrees)	Average relative humidity (percent)	Average air temperature (Celsius)	Precipitation (millimeters)
10/23/86	1200	132.0	24.1	12.04	7.1	48.5	58.9	4.7	0.00
10/23/86	1800	164.1	32.4	11.30	5.9	79.3	25.0	15.4	0.00
10/23/86	2400	0.0	0.0	4.77	2.0	15.2	61.1	3.5	0.00
10/24/86	600	0.0	0.0	3.12	1.2	226.7	79.5	-2.1	0.00
10/24/86	1200	145.9	29.0	6.65	2.6	43.3	59.0	5.0	0.00
10/24/86	1800	159.1	30.9	7.57	3.4	226.6	21.8	16.1	0.00
10/24/86	2400	0.0	0.0	7.01	3.6	256.4	58.6	4.1	0.00
10/25/86	600	0.0	0.0	4.24	1.5	245.9	79.0	-1.9	0.00
10/25/86	1200	149.3	28.6	4.29	1.2	206.3	55.3	6.1	0.00
10/25/86	1800	159.9	32.2	10.87	6.3	213.4	18.0	17.0	0.00
10/25/86	2400	0.0	0.0	6.16	2.7	264.2	47.9	5.3	0.00
10/26/86	600	0.0	0.0	2.86	1.2	251.7	76.4	-1.8	0.00
10/26/86	1200	120.8	24.4	6.76	3.0	46.9	60.6	4.3	0.00
10/26/86	1800	115.8	20.8	5.02	1.5	16.6	25.5	15.1	0.00
10/26/86	2400	0.0	0.0	3.75	0.9	314.3	56.7	4.9	0.00
10/27/86	600	0.0	0.0	3.27	1.3	261.2	77.5	-0.5	0.00
10/27/86	1200	122.3	25.6	16.88	9.5	228.3	54.0	7.8	0.00
10/27/86	1800	96.9	20.3	30.19	18.3	249.7	21.0	14.9	0.00
10/27/86	2400	0.0	0.0	13.79	8.0	235.0	55.4	4.8	0.00
10/28/86	600	0.0	0.0	5.22	3.0	244.1	80.1	-3.1	0.00
10/28/86	1200	146.7	29.3	4.21	1.3	181.9	57.0	3.6	0.00
10/28/86	1800	151.3	29.9	7.50	2.9	178.8	21.4	12.7	0.00
10/28/86	2400	0.0	0.0	4.67	1.2	63.9	48.2	1.3	0.00
10/29/86	600	0.0	0.0	3.45	1.0	237.5	74.9	-2.3	0.00
10/29/86	1200	66.7	12.8	4.86	0.7	14.2	60.9	2.0	0.00
10/29/86	1800	104.9	20.0	6.02	2.2	208.3	25.6	12.3	0.00
10/29/86	2400	0.0	0.0	4.10	1.6	29.0	53.9	2.8	0.00
10/30/86	600	0.0	0.1	10.59	5.0	253.4	65.2	4.3	1.02
10/30/86	1200	110.1	20.3	31.35	18.9	233.6	68.2	5.7	0.00
10/30/86	1800	137.4	27.3	22.11	13.1	240.3	40.8	8.9	0.76
10/30/86	2400	0.0	0.0	5.43	0.6	63.0	71.1	-0.1	0.00
10/31/86	600	0.0	0.2	4.59	0.9	336.0	79.6	-4.4	0.00
10/31/86	1200	145.3	25.6	10.38	5.7	46.5	65.5	1.6	0.00
10/31/86	1800	151.8	31.8	15.37	9.1	35.0	23.9	8.4	0.00
10/31/86	2400	0.0	0.0	4.94	0.8	318.2	60.6	-4.0	0.00
11/01/86	600	0.0	0.0	4.27	2.0	245.9	78.0	-7.9	0.00
11/01/86	1200	154.6	29.4	6.67	2.5	48.9	50.9	0.8	0.00
11/01/86	1800	151.0	31.3	7.48	3.1	50.5	18.4	10.7	0.00
11/01/86	2400	0.0	0.0	4.96	2.6	230.8	60.7	-4.3	0.00
11/02/86	600	0.0	0.0	5.68	3.1	245.4	78.1	-7.6	0.00

Table 19.--Meteorological data at the test trench facility--Continued

Date	Hour	Global solar radiation (cal/cm2/6hr)	Reflected solar radiation (cal/cm2/6hr)	Mean wind speed (km/hr)	Mean wind vector (degrees)	Mean wind direction (degrees)	Average relative humidity (percent)	Average air temperature (Celsius)	Precipitation (millimeters)
11/02/86	1200	143.6	27.9	6.62	2.3	56.7	58.6	-1.5	0.00
11/02/86	1800	139.1	27.9	9.01	4.5	221.3	23.1	9.6	0.00
11/02/86	2400	0.0	0.0	10.95	6.3	228.5	53.7	1.5	0.00
11/03/86	600	0.0	0.0	5.69	2.8	271.5	78.8	-4.8	0.00
11/03/86	1200	144.7	27.5	6.36	2.2	31.1	61.4	0.5	0.00
11/03/86	1800	141.9	29.1	6.36	0.9	22.1	20.5	11.7	0.00
11/03/86	2400	0.0	0.0	7.02	3.9	263.0	58.6	-1.3	0.00
11/04/86	600	0.0	0.0	4.79	1.9	255.8	77.3	-5.8	0.00
11/04/86	1200	134.6	26.5	5.73	1.2	68.7	58.1	1.2	0.00
11/04/86	1800	138.5	29.0	10.48	5.7	210.9	24.2	11.5	0.00
11/04/86	2400	0.0	0.0	6.75	3.6	263.9	64.6	-0.5	0.00
11/05/86	600	0.0	0.0	4.79	2.0	238.9	78.6	-4.7	0.00
11/05/86	1200	134.4	26.7	7.88	4.0	234.5	61.0	1.5	0.00
11/05/86	1800	141.7	31.6	31.03	18.9	227.3	22.5	13.0	0.00
11/05/86	2400	0.0	0.0	22.13	12.9	229.1	32.2	7.4	0.00
11/06/86	600	0.0	0.0	17.44	10.2	216.6	51.3	0.8	0.00
11/06/86	1200	47.4	8.8	9.20	3.0	184.0	60.0	1.4	0.00
11/06/86	1800	45.9	8.3	12.41	0.3	102.1	39.9	3.3	0.00
11/06/86	2400	0.0	0.0	5.24	2.1	210.5	70.4	-2.5	0.00
11/07/86	600	0.0	0.1	8.15	4.1	188.0	76.3	-4.3	0.00
11/07/86	1200	71.2	19.4	11.75	6.8	212.3	77.2	-3.3	0.00
11/07/86	1800	65.6	12.1	11.43	6.0	210.6	59.8	-0.5	0.25
11/07/86	2400	0.0	0.0	6.46	3.9	25.0	79.6	-3.3	2.03
11/08/86	600	0.0	0.0	6.23	1.4	249.4	79.3	-5.5	0.51
11/08/86	1200	53.7	68.9	14.16	8.2	229.8	59.9	-4.1	0.00
11/08/86	1800	82.6	37.4	15.13	8.2	235.6	47.9	-1.5	0.00
11/08/86	2400	0.0	0.0	14.39	8.2	241.1	60.0	-6.4	0.00
11/09/86	600	0.0	0.0	13.52	8.1	227.4	77.2	-6.7	0.00
11/09/86	1200	58.5	25.7	11.86	4.8	229.8	72.2	-6.4	0.00
11/09/86	1800	76.5	33.2	27.71	16.9	232.5	68.1	-0.8	0.00
11/09/86	2400	0.0	0.0	10.35	1.7	190.7	74.6	-6.7	0.00
11/10/86	600	0.0	0.0	6.37	1.9	42.7	62.0	-13.3	0.00
11/10/86	1200	116.3	43.2	6.24	0.4	31.5	46.4	-8.4	0.00
11/10/86	1800	133.7	51.0	13.63	8.1	202.9	42.1	-4.6	0.00
11/10/86	2400	0.0	0.1	6.15	3.0	13.1	66.4	-9.2	0.00
11/11/86	600	0.0	0.1	9.16	5.0	217.8	67.0	-6.9	0.00
11/11/86	1200	51.0	19.8	17.43	10.3	229.8	66.7	-5.0	0.00
11/11/86	1800	68.1	23.4	17.35	3.5	227.0	52.4	0.1	0.00
11/11/86	2400	0.0	0.0	3.88	1.2	36.0	69.6	-5.5	0.00
11/12/86	600	0.0	0.0	9.58	5.5	26.3	71.2	-8.0	0.00

Table 19.--Meteorological data at the test trench facility--Continued

Date	Hour	Global solar radiation (cal/cm2/6hr)	Reflected solar radiation (cal/cm2/6hr)	Mean wind speed (km/hr)	Mean wind vector (degrees)	Mean wind direction (degrees)	Average relative humidity (percent)	Average air temperature (Celsius)	Precipitation (millimeters)
11/12/86	1200	103.4	34.0	10.72	6.0	38.9	51.6	-7.0	0.00
11/12/86	1800	126.6	36.5	9.42	5.5	57.4	30.2	0.6	0.00
11/12/86	2400	0.0	0.0	4.50	2.3	31.8	67.9	-8.8	0.00
11/13/86	600	0.0	0.1	2.55	0.7	285.6	76.9	-11.0	0.00
11/13/86	1200	96.6	27.7	5.88	1.8	53.3	61.0	-5.7	0.00
11/13/86	1800	115.3	27.9	7.71	3.9	56.6	36.9	3.7	0.00
11/13/86	2400	0.0	0.0	3.99	0.9	14.1	72.2	-5.0	0.00
11/14/86	600	0.0	0.1	4.13	2.1	259.1	78.8	-6.8	0.00
11/14/86	1200	86.0	19.1	5.99	3.1	242.4	68.3	-1.8	0.00
11/14/86	1800	81.2	15.3	17.51	10.3	223.9	31.5	7.4	0.00
11/14/86	2400	0.0	0.0	12.73	7.5	220.8	45.4	1.6	0.00
11/15/86	600	0.0	0.0	19.84	12.1	208.1	58.9	-0.0	0.00
11/15/86	1200	87.9	18.3	20.34	11.5	237.2	68.5	1.6	0.00
11/15/86	1800	113.2	24.3	31.61	19.3	241.9	36.2	6.0	0.00
11/15/86	2400	0.0	0.0	18.70	11.1	222.4	37.5	2.0	0.00
11/16/86	600	0.0	0.0	22.58	13.7	242.8	42.1	1.6	0.00
11/16/86	1200	66.3	13.9	25.83	15.6	238.3	52.3	2.0	0.00
11/16/86	1800	60.2	11.0	31.48	18.7	230.1	41.3	4.5	0.00
11/16/86	2400	0.0	0.0	25.49	15.5	225.5	66.5	1.4	0.00
11/17/86	600	0.0	0.0	29.06	17.7	225.9	76.9	1.3	0.00
11/17/86	1200	100.7	20.7	35.95	21.9	240.9	65.4	3.4	0.00
11/17/86	1800	122.1	26.9	30.19	18.0	254.1	32.4	7.5	0.00
11/17/86	2400	0.0	0.0	9.89	5.2	227.8	61.8	-2.3	0.00
11/18/86	600	0.0	0.1	4.30	0.7	268.8	77.4	-8.8	0.00
11/18/86	1200	103.8	19.4	6.28	2.6	42.1	70.4	-3.8	0.00
11/18/86	1800	113.6	24.1	10.15	4.7	192.3	33.5	7.4	0.00
11/18/86	2400	0.0	0.0	22.40	13.7	216.7	50.5	4.0	0.00
11/19/86	600	0.0	0.0	24.22	13.4	240.3	51.4	4.6	0.00
11/19/86	1200	82.3	17.5	14.39	7.4	244.1	37.0	3.4	0.00
11/19/86	1800	105.9	23.6	17.43	10.0	232.2	23.3	7.2	0.00
11/19/86	2400	0.0	0.0	15.38	8.8	222.1	44.1	0.1	0.00
11/20/86	600	0.0	0.0	12.68	6.4	237.3	68.0	-2.9	0.00
11/20/86	1200	81.5	16.7	7.75	4.0	32.8	63.3	-0.7	0.00
11/20/86	1800	97.8	20.0	7.76	4.1	42.9	31.9	7.3	0.00
11/20/86	2400	0.0	0.0	4.33	0.9	279.2	63.8	-2.2	0.00
11/21/86	600	0.0	0.3	8.48	3.9	233.6	73.1	-0.0	0.00
11/21/86	1200	66.6	13.0	24.85	14.8	224.2	69.5	3.7	0.00
11/21/86	1800	51.1	12.1	16.16	6.3	248.4	65.3	3.3	3.56
11/21/86	2400	0.0	0.0	8.34	3.1	186.7	69.0	-1.5	0.00
11/22/86	600	0.0	0.0	13.95	6.6	214.7	78.4	-5.6	0.00

Table 19. --Meteorological data at the test trench facility--Continued

Date	Hour	Global solar radiation (cal/cm2/6hr)	Reflected solar radiation (cal/cm2/6hr)	Mean wind speed (km/hr)	Mean wind vector (degrees)	Mean wind direction (degrees)	Average relative humidity (percent)	Average air temperature (Celsius)	Precipitation (millimeters)
11/22/86	1200	28.1	12.2	7.59	1.8	262.3	80.3	-4.7	0.00
11/22/86	1800	29.6	16.0	6.36	0.9	262.5	74.6	-0.9	0.00
11/22/86	2400	0.0	0.0	5.24	1.4	276.3	78.2	-4.4	0.00
11/23/86	600	0.0	0.0	9.87	5.8	242.6	81.0	-3.7	0.00
11/23/86	1200	29.7	14.3	14.29	8.6	223.6	79.0	-3.3	0.00
11/23/86	1800	35.3	15.1	18.86	11.3	220.8	74.5	-0.9	0.00
11/23/86	2400	0.0	0.0	11.78	5.7	238.6	76.4	-1.8	0.00
11/24/86	600	0.0	0.0	8.86	3.2	271.4	78.2	-2.9	0.00
11/24/86	1200	98.5	25.7	5.09	2.2	44.1	72.5	-1.7	0.00
11/24/86	1800	105.6	27.1	10.71	5.7	195.9	41.7	5.6	0.00
11/24/86	2400	0.0	0.0	6.19	1.4	300.7	67.4	-1.2	0.00
11/25/86	600	0.0	0.0	6.66	0.8	4.4	74.3	-3.7	0.00
11/25/86	1200	100.6	20.7	11.89	6.6	217.5	72.3	-2.9	0.00
11/25/86	1800	109.4	26.3	11.89	6.9	222.5	49.4	1.9	0.00
11/25/86	2400	0.0	0.0	6.30	3.4	259.9	79.0	-7.1	0.00
11/26/86	600	0.0	0.2	4.35	1.2	346.2	79.5	-8.6	0.00
11/26/86	1200	47.7	14.0	4.02	1.8	1.6	79.7	-6.0	0.00
11/26/86	1800	55.9	13.8	7.33	3.6	48.9	63.8	-1.2	0.00
11/26/86	2400	0.0	0.0	5.21	1.0	340.9	75.1	-5.7	0.00
11/27/86	600	0.0	0.3	3.29	0.7	262.5	78.6	-10.5	0.00
11/27/86	1200	75.4	15.8	6.47	3.3	241.2	69.6	-4.1	0.00
11/27/86	1800	86.8	18.9	17.91	10.7	234.5	31.4	-5.8	0.00
11/27/86	2400	0.0	0.0	10.71	6.3	235.8	49.0	-1.4	0.00
11/28/86	600	0.0	0.0	7.87	4.6	215.2	49.1	-3.3	0.00
11/28/86	1200	49.3	9.9	10.07	5.9	225.5	38.7	1.5	0.00
11/28/86	1800	46.1	8.0	11.19	5.6	235.2	26.3	5.3	0.00
11/28/86	2400	0.0	0.0	6.62	1.5	312.3	43.1	-0.2	0.00
11/29/86	600	0.0	0.0	5.70	1.9	47.5	54.3	-2.6	0.00
11/29/86	1200	46.9	9.3	8.20	3.8	230.2	63.1	-3.6	0.00
11/29/86	1800	44.7	8.2	18.06	11.0	212.3	62.5	-0.1	0.00
11/29/86	2400	0.0	0.0	8.98	3.6	217.1	75.4	-4.3	0.00
11/30/86	600	0.0	0.0	13.60	6.3	198.8	77.5	-6.9	0.00
11/30/86	1200	75.0	25.1	15.00	7.0	206.4	79.7	-6.0	0.00
11/30/86	1800	112.1	25.6	14.18	6.8	224.2	69.7	-2.6	0.00
11/30/86	2400	0.0	0.0	3.48	0.5	347.0	77.3	-10.5	0.00
12/01/86	600	0.0	0.4	3.03	1.1	250.0	76.3	-13.7	0.00
12/01/86	1200	101.6	22.5	4.83	1.5	19.4	70.5	-8.8	0.00
12/01/86	1800	99.1	18.5	5.72	2.4	39.3	36.0	0.1	0.00
12/01/86	2400	0.0	0.0	4.56	0.6	94.5	70.0	-10.7	0.00
12/02/86	600	0.0	0.0	4.10	2.0	260.6	75.8	-13.9	0.00

Table 19.--Meteorological data at the test trench facility--Continued

Date	Hour	Global solar radiation (cal/cm2/6hr)	Reflected solar radiation (cal/cm2/6hr)	Mean wind speed (km/hr)	Mean wind vector (degrees)	Mean wind direction (degrees)	Average relative humidity (percent)	Average air temperature (Celsius)	Precipitation (millimeters)
12/02/86	1200	97.3	20.1	4.91	0.9	12.9	65.5	-8.7	0.00
12/02/86	1800	86.9	18.6	9.50	5.3	45.5	35.0	0.4	0.00
12/02/86	2400	0.0	0.0	4.43	1.7	264.3	70.8	-10.3	0.00
12/03/86	600	0.0	0.0	2.91	1.3	256.1	75.3	-12.9	0.00
12/03/86	1200	73.9	15.5	4.83	1.3	48.4	64.9	-8.1	0.00
12/03/86	1800	81.2	17.1	8.53	4.9	37.9	30.8	0.7	0.00
12/03/86	2400	0.0	0.0	3.67	1.6	245.5	63.7	-8.8	0.00
12/04/86	600	0.0	0.0	3.84	1.8	254.1	72.5	-10.4	0.00
12/04/86	1200	85.4	19.1	5.61	1.4	26.6	59.5	-6.8	0.00
12/04/86	1800	89.0	13.8	11.30	6.8	42.7	26.5	3.4	0.00
12/04/86	2400	0.0	0.0	4.89	0.5	262.3	51.1	-4.1	0.00
12/05/86	600	0.0	0.0	5.13	2.5	266.7	57.9	-5.1	0.00
12/05/86	1200	30.6	6.0	5.68	1.4	22.7	58.9	-3.3	0.00
12/05/86	1800	16.8	3.4	7.16	2.3	265.2	61.8	1.4	1.52
12/05/86	2400	0.0	0.0	6.25	2.9	257.3	80.9	-1.0	0.00
12/06/86	600	0.0	0.0	3.35	1.1	258.8	81.5	-1.0	0.25
12/06/86	1200	22.4	25.4	6.90	4.0	220.6	80.6	-0.6	0.00
12/06/86	1800	93.0	30.8	11.20	6.8	205.5	72.7	2.4	0.00
12/06/86	2400	0.0	0.0	6.88	4.0	212.9	80.4	-2.1	0.00
12/07/86	600	0.0	0.1	6.14	3.6	230.2	79.0	-7.6	0.00
12/07/86	1200	79.5	37.1	7.46	4.3	219.4	79.6	-5.5	0.00
12/07/86	1800	74.8	27.9	19.20	11.4	214.8	77.5	-2.1	0.00
12/07/86	2400	0.0	0.0	11.52	6.9	222.7	80.4	-3.5	0.00
12/08/86	600	0.0	0.1	5.35	2.4	167.9	80.0	-3.8	0.00
12/08/86	1200	20.8	7.3	6.33	2.9	242.5	78.3	-3.1	0.00
12/08/86	1800	85.5	22.9	8.60	4.8	245.2	64.1	-1.5	0.00
12/08/86	2400	0.0	0.0	5.69	1.0	48.9	71.6	-10.0	0.00
12/09/86	600	0.0	0.0	4.53	1.2	271.6	71.9	-17.0	0.00
12/09/86	1200	120.6	26.4	5.28	1.0	204.0	59.2	-11.9	0.00
12/09/86	1800	111.6	29.4	4.73	1.1	186.4	27.5	-3.6	0.00
12/09/86	2400	0.0	0.0	5.40	2.4	248.1	72.9	-15.0	0.00
12/10/86	600	0.0	0.1	5.30	2.0	291.1	73.1	-16.9	0.00
12/10/86	1200	53.0	17.4	6.01	1.5	14.6	67.5	-13.9	0.00
12/10/86	1800	100.0	28.4	8.02	4.3	41.1	44.9	-6.9	0.00
12/10/86	2400	0.0	0.0	3.33	0.1	288.7	70.2	-16.7	0.00
12/11/86	600	0.0	0.1	3.27	1.6	244.4	72.3	-19.7	0.00
12/11/86	1200	90.7	26.2	5.84	1.4	41.9	64.5	-14.7	0.00
12/11/86	1800	104.9	30.8	9.01	5.2	43.5	36.3	-4.8	0.00
12/11/86	2400	0.0	0.0	2.79	0.2	34.6	65.5	-16.1	0.00
12/12/86	600	0.0	0.1	3.04	1.1	227.7	72.8	-17.7	0.00

Table 19.--Meteorological data at the test trench facility--Continued

Date	Hour	Global solar radiation (cal/cm2/6hr)	Reflected solar radiation (cal/cm2/6hr)	Mean wind speed (km/hr)	Mean wind vector (degrees)	Mean wind direction (degrees)	Average relative humidity (percent)	Average air temperature (Celsius)	Precipitation (millimeters)
12/12/86	1200	61.5	18.0	4.88	0.8	43.8	64.6	-12.0	0.00
12/12/86	1800	88.4	26.2	6.71	3.4	64.3	30.8	-2.4	0.00
12/12/86	2400	0.0	0.0	4.63	2.2	239.3	67.4	-14.2	0.00
12/13/86	600	0.0	0.0	4.23	2.2	229.5	73.0	-17.1	0.00
12/13/86	1200	34.0	11.3	3.93	0.3	1.6	68.9	-12.0	0.00
12/13/86	1800	48.0	13.8	8.42	5.1	40.1	43.9	-4.0	0.00
12/13/86	2400	0.0	0.0	3.34	0.6	269.4	66.5	-9.7	0.00
12/14/86	600	0.0	0.0	5.05	2.1	251.8	73.5	-10.2	0.00
12/14/86	1200	73.1	21.7	6.53	3.5	234.2	60.4	-6.7	0.00
12/14/86	1800	88.8	25.7	16.50	9.9	217.4	39.2	2.5	0.00
12/14/86	2400	0.0	0.0	5.88	1.0	354.2	68.2	-9.1	0.00
12/15/86	600	0.0	0.0	3.23	1.4	232.1	75.2	-14.4	0.00
12/15/86	1200	94.6	24.6	5.10	1.0	195.4	66.7	-9.5	0.00
12/15/86	1800	103.2	27.2	6.27	2.9	53.1	31.7	3.2	0.00
12/15/86	2400	0.0	0.0	4.71	2.1	249.8	68.7	-9.0	0.00
12/16/86	600	0.0	0.0	5.11	2.7	222.4	74.8	-10.5	0.00
12/16/86	1200	79.1	19.7	4.31	1.7	225.7	63.7	-7.5	0.00
12/16/86	1800	102.1	27.0	5.97	2.2	74.9	28.1	3.1	0.00
12/16/86	2400	0.0	0.0	4.05	1.5	233.6	69.0	-11.9	0.00
12/17/86	600	0.0	0.0	3.80	1.6	237.6	73.7	-15.9	0.00
12/17/86	1200	104.0	25.1	4.60	0.8	177.9	61.7	-12.1	0.00
12/17/86	1800	108.8	29.7	10.59	6.3	47.4	27.1	0.7	0.00
12/17/86	2400	0.0	0.0	4.76	2.1	262.5	55.1	-13.2	0.00
12/18/86	600	0.0	0.0	3.99	1.2	234.2	70.4	-19.2	0.00
12/18/86	1200	93.5	22.6	5.74	0.8	24.1	58.1	-12.2	0.00
12/18/86	1800	105.2	28.1	8.68	5.1	46.9	25.1	-0.9	0.00
12/18/86	2400	0.0	0.0	4.73	2.4	237.5	53.2	-12.4	0.00
12/19/86	600	0.0	0.0	3.78	1.2	221.8	60.8	-12.2	0.00
12/19/86	1200	23.1	6.2	3.75	0.5	247.0	57.8	-8.1	0.00
12/19/86	1800	59.3	16.7	6.73	3.8	42.8	36.3	-2.4	0.00
12/19/86	2400	0.0	0.0	3.79	0.3	49.2	67.4	-11.5	0.00
12/20/86	600	0.0	0.3	2.78	0.5	230.3	74.6	-11.0	0.00
12/20/86	1200	48.0	12.8	4.18	0.3	116.7	66.4	-6.6	0.00
12/20/86	1800	101.5	26.7	5.86	3.1	52.2	36.0	2.0	0.00
12/20/86	2400	0.0	0.0	4.99	2.4	231.6	71.4	-11.9	0.00
12/21/86	600	0.0	0.0	4.41	2.1	232.7	74.4	-16.3	0.00
12/21/86	1200	33.5	12.0	4.04	0.6	31.7	75.2	-13.4	0.00
12/21/86	1800	78.5	23.5	9.01	5.3	51.8	63.6	-4.2	0.00
12/21/86	2400	0.0	0.0	3.94	0.4	262.4	75.6	-13.0	0.00
12/22/86	600	0.0	0.1	3.56	1.9	225.8	74.6	-15.1	0.00

Table 19. --Meteorological data at the test trench facility--Continued

Date	Hour	Global solar radiation (cal/cm2/6hr)	Reflected solar radiation (cal/cm2/6hr)	Mean wind speed (km/hr)	Mean wind vector (degrees)	Mean wind direction (degrees)	Average relative humidity (percent)	Average air temperature (Celsius)	Precipitation (millimeters)
12/22/86	1200	40.8	13.8	4.07	1.2	56.8	73.7	-9.8	0.00
12/22/86	1800	74.5	19.3	9.13	4.8	37.8	44.2	-1.3	0.00
12/22/86	2400	0.0	0.0	4.84	1.4	260.3	65.9	-8.2	0.00
12/23/86	600	0.0	0.0	5.64	2.9	234.1	75.0	-11.7	0.00
12/23/86	1200	84.1	21.1	5.03	2.1	229.2	63.8	-8.3	0.00
12/23/86	1800	104.9	28.0	9.41	5.3	200.3	35.5	1.4	0.00
12/23/86	2400	0.0	0.0	4.73	1.2	272.1	74.4	-11.6	0.00
12/24/86	600	0.0	0.1	4.84	2.5	234.6	74.3	-16.1	0.00
12/24/86	1200	41.4	13.3	3.44	0.2	277.7	75.3	-10.7	0.00
12/24/86	1800	52.9	14.6	8.47	4.6	67.0	60.3	-3.3	0.00
12/24/86	2400	0.0	0.0	4.27	1.8	254.1	75.4	-11.7	0.00
12/25/86	600	0.0	0.2	7.28	3.9	254.8	75.4	-12.6	0.00
12/25/86	1200	20.0	5.9	5.39	2.8	283.8	74.7	-7.8	0.00
12/25/86	1800	41.2	10.8	7.43	3.2	217.5	67.2	-3.8	0.00
12/25/86	2400	0.0	0.0	5.25	2.3	27.2	72.2	-6.0	0.00
12/26/86	600	0.0	0.1	4.05	1.3	9.0	75.4	-6.8	0.00
12/26/86	1200	27.5	7.0	7.00	3.9	26.6	73.8	-5.2	0.00
12/26/86	1800	40.0	9.9	9.11	5.4	41.3	60.6	-2.9	0.00
12/26/86	2400	0.0	0.0	3.29	0.5	307.6	74.8	-9.4	0.00
12/27/86	600	0.0	0.0	2.87	1.3	263.1	74.8	-15.1	0.00
12/27/86	1200	92.1	23.0	5.33	1.4	290.3	66.8	-9.4	0.00
12/27/86	1800	96.6	24.6	5.27	1.6	156.0	36.7	-0.5	0.00
12/27/86	2400	0.0	0.0	4.25	1.7	237.5	69.9	-14.4	0.00
12/28/86	600	0.0	0.1	4.03	1.9	244.0	72.5	-18.3	0.00
12/28/86	1200	80.9	25.2	5.18	1.1	355.1	67.7	-13.7	0.00
12/28/86	1800	118.0	29.1	8.31	4.7	42.3	42.5	-2.6	0.00
12/28/86	2400	0.0	0.0	3.14	0.5	233.5	71.3	-16.1	0.00
12/29/86	600	0.0	0.1	3.42	1.5	225.9	71.5	-19.7	0.00
12/29/86	1200	60.0	18.8	5.76	1.5	6.9	67.7	-14.3	0.00
12/29/86	1800	62.3	15.8	9.46	0.4	263.4	44.3	-2.8	0.00
12/29/86	2400	0.0	0.0	13.21	6.3	238.9	74.2	-7.3	0.00
12/30/86	600	0.0	0.0	10.82	4.8	215.7	75.7	-10.3	0.00
12/30/86	1200	92.5	26.7	9.61	4.3	251.5	72.2	-8.1	0.00
12/30/86	1800	104.9	23.9	10.50	5.3	221.8	36.0	-0.7	0.00
12/30/86	2400	0.0	0.0	6.42	3.4	252.8	70.9	-12.1	0.00
12/31/86	600	0.0	0.0	5.46	2.8	231.1	69.9	-18.8	0.00
12/31/86	1200	81.4	20.4	6.92	2.0	67.0	67.6	-15.9	0.00
12/31/86	1800	99.3	24.1	13.92	8.4	46.9	45.7	-4.7	0.00
12/31/86	2400	0.0	0.0	3.79	1.1	42.7	69.1	-12.1	0.00