UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

SELECTED HYDROLOGIC AND CLIMATOLOGIC DATA FROM THE PRAIRIE DOG CREEK BASIN, SOUTHEASTERN MONTANA, WATER YEAR 1980

by Lawrence E. Cary and Joel D. Johnson

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UNITED STATES DEPARTMENT OF THE INTERIOR

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METRIC CONVERSION TABLE

The following factors may be used to convert inch-pound units published herein to the International System (SI) of metric units.

Multiply inch-pound unit	By	To obtain SI unit
acre-foot	1233	cubic meter
cubic foot per second	28.32	liter per second
foot (ft)	0.3048	meter (m)
inch (in.)	25.40	millimeter (mm)
mile (mi)	1.609	kilometer (km)
square mile (mi^2)	2.590	square kilometer (km^2)
ton (short) per day	0.9072	megagram per day

Temperature in degrees Celsius (°C) can be converted to degrees Fahrenheit (°F) by the following equation:

$$°F = 1.8°C + 32$$

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ABSTRACT

Hydrologic and climatologic data are being collected in a 25-square-mile (65-square-kilometer) basin in southeastern Montana to provide a base for development, calibration, and verification of a precipitation-runoff model. The study area and data-collection stations within the area are shown on a map. A summary of data collected at each station during the second year, beginning in October 1979, is provided in tables and figures. The data include precipitation, snow depth and water content, air temperature, relative humidity, wind run, wind direction, solar radiation, soil temperature and moisture, stream discharge, chemical analyses of water, and sediment content.

INTRODUCTION

In 1978, a precipitation-runoff modeling study was initiated by the U.S. Geological Survey in cooperation with the U.S. Bureau of Land Management. The study was funded as part of the Bureau of Land Management EMRIA (Energy Mineral Rehabilitation Inventory and Analysis) program. The objective of the study is to develop, test, and verify a hydrologic model that can be used to estimate the hydrologic processes on small basins when data are lacking and to simulate the hydrologic effects of proposed land-use changes such as surface mining. This study is being conducted in one of several small basins that have been instrumented in coal regions to provide the data necessary for model development, calibration, and verification.

The purpose of this report is to provide a summary of the data being collected as part of the modeling study in Montana. Most of the data are for the second year of operation, October 1979 through September 1980; data collection for soil moisture and wind run began in October 1978. The results of the first year of operation are given in a report by Cary and Johnson (1981).

STUDY AREA

The study area is located within the Tongue River drainage near Birney, in southeastern Montana (fig. 1). The Prairie Dog Creek basin encloses an area of about 25 mi^2 (65 km^2). The principal streamflow-gaging station is located about 3 mi (4.8 km) upstream from the mouth, yielding an effective area of about 19 mi^2 (49 km^2) included in the study. A second station, located 6 mi (9.6 km) farther upstream, monitors a drainage area of 6.5 mi^2 (17 km^2).

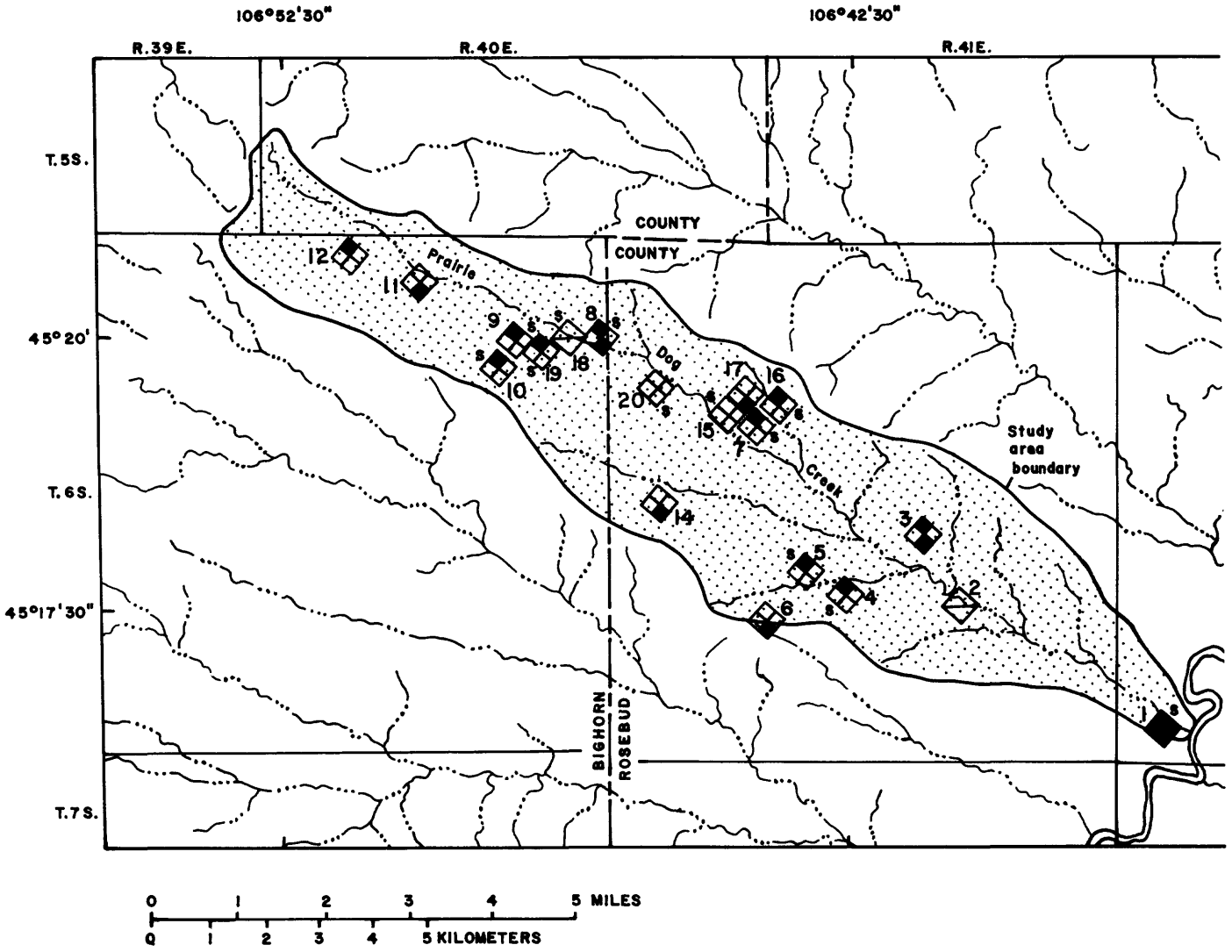
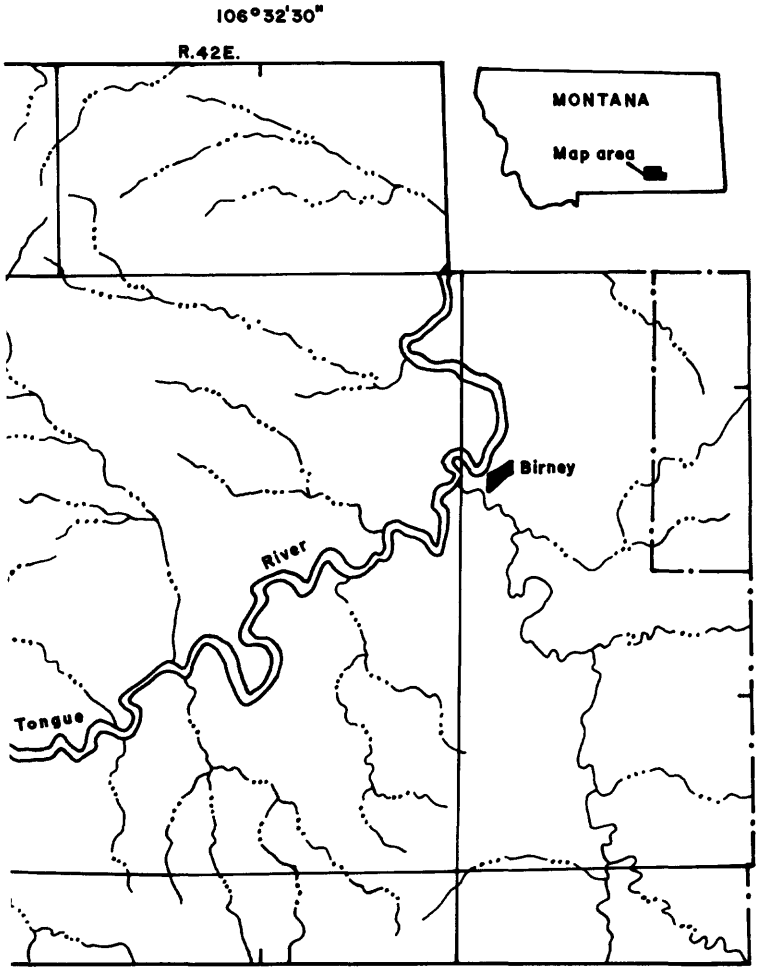


Figure 1.--Location of study area

The surficial geology consists primarily of sandstone, siltstone, shale, and clinker of the Tongue River Member of the Fort Union Formation, which is of Paleocene age. Several faults have been mapped in and near the basin (Lewis and Roberts, 1978).

The terrain is relatively steep and dissected, especially on the north side of Prairie Dog Creek. Near the headwaters and along the flanks of the watershed, the terrain consists of nearly level, plateau-like erosional remnants.

The climate of the area is semiarid, continental steppe, which is characteristic of the northern Great Plains. The mean annual precipitation is about 13 in. (330 mm), with almost 60 percent occurring from April through July. During the first part of this period cyclonic storms are common; however, during the summer



EXPLANATION

DATA-COLLECTION SITE AND NUMBER
(table 1)

2 — Streamflow-gaging and quality-of-water station

1 — Complete weather station

11 — Precipitation station

12 — Snow-survey course

15 — Basic measurement site

s — Soil-moisture and soil-temperature measurement site. Letter is appended to station symbols shown above

and data-collection sites.

months convective storms become the common type. Almost 30 percent of the average annual precipitation occurs as snow. Nearly all precipitation from November through March is in the form of snow, and late spring snowstorms are not uncommon. The seasonal temperature ranges widely, with cold winters and hot summers. Mean January temperature is -7.8°C (18°F) and mean July temperature is 21.7°C (71°F).

Low- to medium-intensity soil surveys have recently been completed by the U.S. Soil Conservation Service in Big Horn County in the upstream part of the basin and are in progress in Rosebud County. About 12 soil series are present in the basin. The soil texture ranges from sand to clay loam. The depth ranges from several feet along Prairie Dog Creek to no soil at and below rock outcrops (Meshnick and others, 1977; U.S. Soil Conservation Service, 1978).

Several vegetation types are represented in the basin. These include sagebrush steppe, with big sagebrush and silver sagebrush the common dominants; sagebrush grassland; mid-short grass type on steeper hillsides; ponderosa pine, badlands type; and riparian-grasslands type. Rocky Mountain juniper occurs with the ponderosa pine on dry slopes at lower elevations. Green ash and cottonwood occur along the upstream part of Prairie Dog Creek, being replaced by isolated stands of cottonwood along the downstream reaches.

During the first year of data collection, the flow of Prairie Dog Creek was intermittent. Flow began in April, in response to melting of an above average snowpack, and continued into September. During the second year, streamflow at the downstream gaging station occurred briefly during snowmelt and later in response to summer, convective thunderstorms.

DATA COLLECTION

Data collection began in October 1978 with the activation of the primary climatological station (station 1). Data acquired at the station include precipitation, snowpack, air temperature, relative humidity, wind speed and direction, solar radiation, soil temperature, and soil moisture.

A trapezoidal, supercritical flume with a 1-ft (0.3-m) throat was constructed on Prairie Dog Creek about 3 mi (5 km) upstream from the mouth (station 2; station number 06307528). Gage heights are measured by a servo-manometer system and recorded by digital and analog recorders. This streamflow-gaging and quality-of-water station was activated in early November 1978.

The use of soil-moisture access tubes began in October 1978 at the primary meteorological station (station 1) and in December 1978 at a secondary meteorological station about 8 mi (13 km) upstream (station 8). Soil moisture at these sites was measured with a neutron depth-moisture gage. Copper constantan thermocouples were installed at several depths at these sites to periodically determine soil temperature.

Six precipitation gages were installed in addition to the gage at the primary climatological station. Installation of these gages began in November 1978 and was completed by summer 1979. Thus, the network consists of seven recording, weighing-type precipitation gages.

Snow courses were established at several locations during December 1978 and July 1979. Snow depth and equivalent water content were measured along these courses periodically with a federal snow sampler[1].

In March 1979, a second streamflow-gaging and quality-of-water station (station 18; station number 06307525) was activated about 6 mi (9.7 km) upstream from the first. No artificial control was constructed at this site.

In the summer of 1979 additional sites were selected and instrumented for soil moisture and temperature. During that period, a pumping sediment sampler was

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[1] A federal snow sampler is a particular type of snow sampling tube.

installed and activated at the downstream gaging station (station 2). A list of stations, date of activation, and summary of the types of information acquired are given in table 1.

REFERENCES

Cary, L. E., and Johnson, J. D., 1981, Selected hydrologic and climatologic data from the Prairie Dog Creek basin, southeastern Montana, water year 1979: U.S. Geological Survey Open-File Report 81-412, 73 p.

Lewis, B. D., and Roberts, R. S., 1978, Geology and water-yielding characteristics of rocks of the northern Powder River Basin, southeastern Montana: U.S. Geological Survey Miscellaneous Investigations Map I-847-D, 2 sheets.

Meshnick, J. C., and others, 1977, Soil survey of Big Horn County area, Montana: U.S. Soil Conservation Service and U.S. Bureau of Indian Affairs, 223 p.

U.S. Soil Conservation Service, 1978, Soil survey data for Rosebud County, Montana: Forsyth, Mont., U.S. Department of Agriculture, Soil Survey Office, Unpublished data.

DATA

Streamflow-gaging stations are identified by an 8-digit number in downstream order following the system used by the U.S. Geological Survey. All other stations are identified by a 13-digit number based on the grid system of latitude and longitude. The first 6 digits denote the degrees, minutes, and seconds of latitude and the remaining 7 digits denote the degrees, minutes, and seconds of longitude.

Replicate sampling of soil moisture and temperature was made at station 1. Replicate sampling of soil moisture was also made at all other soil-moisture stations. For replicated arrays of thermocouples and soil moisture access tubes, the stations were assigned sequential letters: a for the first array of thermocouples or first access tube, b for the second, and so forth (see table 1).

The table formats differ depending upon the nature of the data being presented. The tables are grouped in the following order. Precipitation data from all gages are in tables 2 to 8. Snow depth and equivalent water content, measured at 11 locations in the basin, are given in table 9. The climatologic data from the primary climatologic station (station 1) are reported in tables 10-13.

The wind data presented in table 12 are values of total daily wind run, which is the distance the air mass at the measurement height would move in 1 day. Recent tests of the wind sensors by the National Bureau of Standards indicated that a correction was needed for observed windrun values, as they were larger than actual wind run. The corrected wind run value = (0.8691 x observed wind-run value) - 0.2366. Because this correction applied to all acquired wind-run data, the data from the previous year (Cary and Johnson, 1981) have been corrected and reprinted with the current corrected data in this report.

Wind direction has been summarized as wind roses in figure 2. The lengths of the lines in the roses are proportional to the percentage of time the wind is from that direction each month.

Soil temperatures measured at the primary climatologic station are given in table 14. Tables 15-24 contain the soil temperatures that were periodically measured at 10 stations. Tables 25-36 contain soil-moisture data that were periodically measured with a neutron moisture meter at 12 stations. The soil moisture values at each depth in the tables are averages of readings taken from the three or four access tubes at each station. A statistical comparison of soil moisture (determined from samples obtained at the time the tubes were installed) versus soil moisture (determined with the neutron moisture meter) indicated that a correction was necessary. The corrected soil moisture = (0.60 x observed soil moisture value) + 6.57. Because this correction applied to all soil-moisture data, all data acquired during the first 2 years were corrected and are included in this report. Streamflow, chemical-quality, and sediment data for the two streamflow-gaging stations (2 and 18) are reported in tables 37-42.

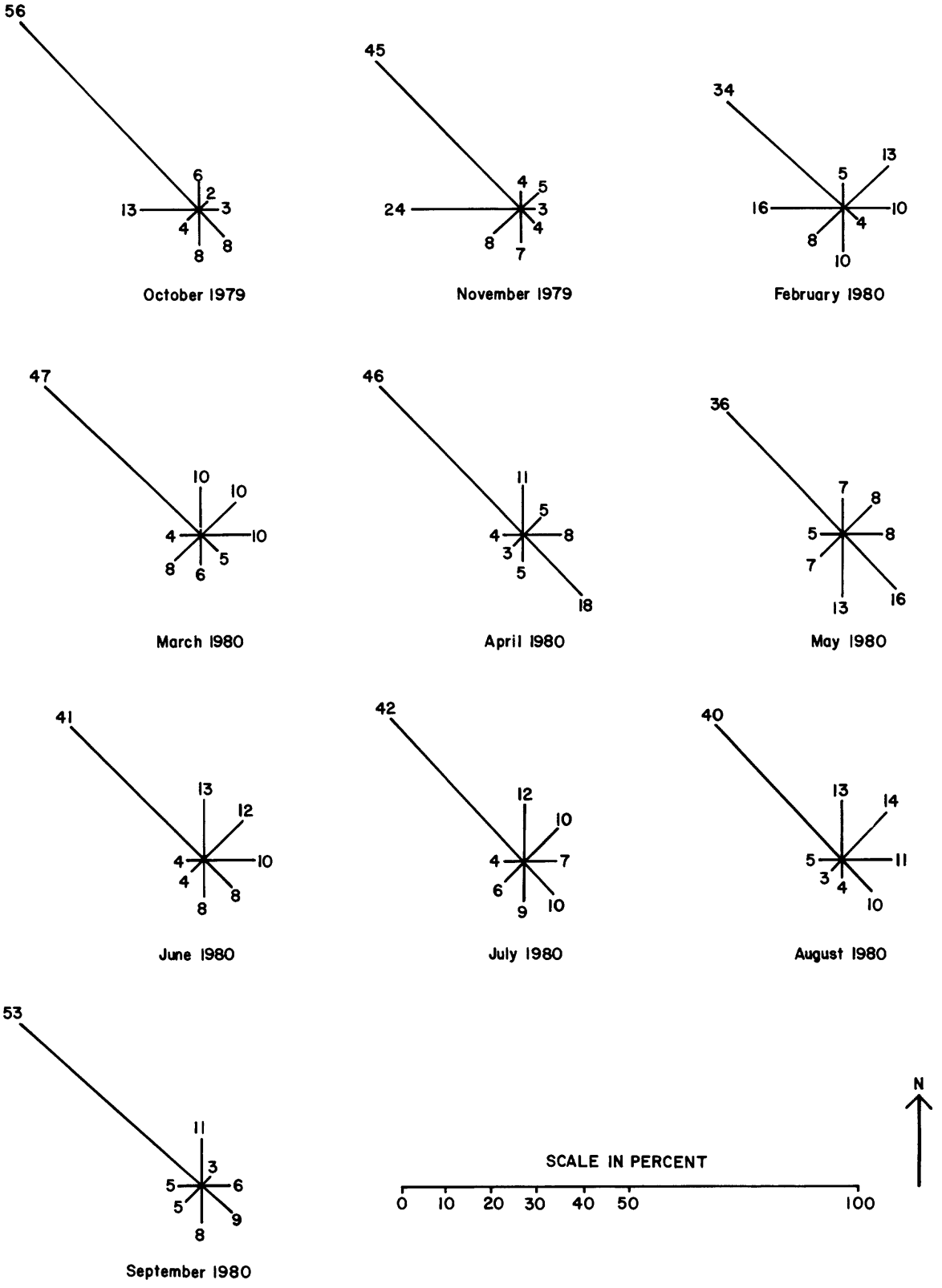

Figure 2.--Monthly wind roses at station 1. Data for December and January are missing because of instrument failure. Data for February begin on the 5th of the month.

Abbreviations used in column headings of the tables are:

AC-FT	Acre-feet
CFS	Cubic feet per second
DEG C	Degrees Celsius
FT	Feet
MAX	Maximum
MG/L	Milligrams per liter
MIN	Minimum
T/DAY	Tons per day
UG/L	Micrograms per liter

Table 1.--*Prairie Dog Creek data-collection network*

Station identification				
Local number[1]	Sequence letter	Downstream-order or latitude/longitude number	Date activated	Data acquisition
1	-	4516181063808	Oct. 1978	Precipitation
	-	--	-do-	Snowpack
	-	--	-do-	Air temperature
	-	--	-do-	Relative humidity
	-	--	-do-	Wind run and direction
	-	--	-do-	Solar radiation
	a	--	-do-	Soil temperature
	b	--	-do-	Soil temperature
	a	--	-do-	Soil moisture
	b	--	-do-	Soil moisture
	c	--	-do-	Soil moisture
	d	--	-do-	Soil moisture
2	-	06307528	Nov. 1978	Stream discharge
	-	--	Dec. 1978	Chemical quality
	-	--	June 1979	Suspended sediment
3	-	4518121064125	Nov. 1978	Precipitation
	-	--	-do-	Snowpack
4	-	4517401064248	Dec. 1978	Snowpack
	-	--	May 1979	Soil temperature
	a	--	-do-	Soil moisture
	b	--	-do-	Soil moisture
	c	--	-do-	Soil moisture
5	-	4517461064324	Dec. 1978	Snowpack
	-	--	May 1979	Soil temperature
	a	--	-do-	Soil moisture
	b	--	-do-	Soil moisture
	c	--	-do-	Soil moisture
6	-	4517201064346	Nov. 1978	Precipitation
7	-	4519141064333	Dec. 1978	Snowpack
	-	--	May 1979	Soil temperature
	a	--	-do-	Soil moisture
	b	--	-do-	Soil moisture
	c	--	-do-	Soil moisture
8	-	4520071064617	Mar. 1979	Precipitation
	-	--	Dec. 1978	Snowpack
	-	--	-do-	Soil temperature

Table 1.--*Prairie Dog Creek data-collection network*--Continued

Station identification				
Local number[1]	Sequence letter	Downstream-order or latitude/longitude number	Date activated	Data acquisition
8	a	--	-do-	Soil moisture
	b	--	-do-	Soil moisture
	c	4520071064617	May 1979	Soil moisture
	d	--	-do-	Soil moisture
9	-	4520031064717	Dec. 1978	Snowpack
	-	--	July 1979	Soil temperature
	a	--	-do-	Soil moisture
	b	--	-do-	Soil moisture
	c	--	-do-	Soil moisture
10	-	4519521064731	July 1979	Snowpack
	-	--	-do-	Soil temperature
	a	--	-do-	Soil moisture
	b	--	-do-	Soil moisture
	c	--	-do-	Soil moisture
11	-	4520501064841	Nov. 1978	Precipitation
12	-	4521011064950	Dec. 1978	Snowpack
14	-	4518411064523	July 1979	Precipitation
15	-	4519041064340	July 1979	Soil temperature
	a	--	-do-	Soil moisture
	b	--	-do-	Soil moisture
	c	--	-do-	Soil moisture
16	-	4519161064326	July 1979	Snowpack
	-	--	-do-	Soil temperature
	a	4519161064326	-do-	Soil moisture
	b	--	-do-	Soil moisture
	c	--	-do-	Soil moisture
17	-	4519181064336	May 1979	Precipitation
18	a	4520081064626	July 1979	Soil moisture
	b	--	-do-	Soil moisture
	c	--	-do-	Soil moisture
	-	06307525	Mar. 1979	Stream discharge
	-	--	-do-	Chemical quality
	-	--	-do-	Suspended sediment

Table 1.--*Prairie Dog Creek data-collection network*--Continued

Station identification				
Local number[1]	Sequence letter	Downstream-order or latitude/longitude number	Date activated	Data acquisition
19	-	4520021064714	July 1979	Snowpack
	-	--	-do-	Soil temperature
	a	--	-do-	Soil moisture
	b	--	-do-	Soil moisture
	c	--	-do-	Soil moisture
20	-	4519531064552	July 1979	Soil temperature
	a	--	-do-	Soil moisture
	b	--	-do-	Soil moisture
	c	--	-do-	Soil moisture

[1]Station 13 was not used.

Table 2.--*Total daily precipitation, in inches, at station 1*

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0
2	.0	.0	.0	.0	.0	.0	.1	.0	.3	.0	.0	.0
3	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0
4	.0	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0
5	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
6	.0	.1	.1	.1	.0	.0	.0	.0	1.1	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9	.0	.0	.0	.0	.0	.3	.0	.1	.0	.1	.0	.0
10	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
11	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
12	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0
13	.0	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.0
14	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
15	.0	.0	.1	.0	.0	.1	.0	.0	.1	.0	.4	.0
16	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.2
22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
24	.0	.0	.0	.1	.0	.0	.0	.4	.0	.0	.0	.0
25	.0	.0	.0	.1	.0	.1	.0	.5	.0	.0	.0	.0
26	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
27	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
28	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
29	.3	.0	.0	.0	.6	.0	.0	.0	.0	.0	.1	.0
30	.0	.0	.0	.0		.0	.2	.8	.0	.0	.0	.0
31	.0		.0	.0		.0		.0		.0	.1	
MONTH	0.7	0.6	0.2	0.4	1.0	0.9	0.4	2.3	1.9	0.2	0.8	0.4

Water year October 1979 to September 1980 YEAR 9.8

Table 3.--*Total daily precipitation, in inches, at station 3*

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.10	0.05	0.00	0.00	0.00
2	.00	.00	.00	.00	.00	.00	.07	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.06	.15	.01	.00	.00	.00	.05	.00
4	.00	.16	.00	.00	.04	.04	.00	.00	.09	.00	.00	.00
5	.00	.07	.00	.06	.02	.03	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.04	.01	.00	.00	1.26	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.06	.00	.00	.00	.31	.00	.00	.00	.10	.05	.00
10	.00	.04	.05	.07	.00	.02	.00	.08	.00	.00	.03	.00
11	.00	.06	.00	.00	.00	.00	.00	.00	.00	.00	.00	.12
12	.00	.00	.00	.00	.01	.24	.00	.00	.00	.00	.02	.01
13	.00	.00	.00	.00	.26	.00	.00	.00	.00	.00	.01	.00
14	.00	.00	.00	.00	.07	.00	.00	.00	.85	.00	.08	.00
15	.07	.00	.03	.00	.02	.13	.00	.00	.12	.00	.08	.00
16	.06	.00	.00	.00	.00	.01	.00	.00	.03	.00	.01	.00
17	.13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.02	.00	.00	.16	.00	.00	.00	.00	.00	.00	.00	.01
19	.00	.07	.00	.00	.00	.06	.00	.00	.00	.00	.00	.00
20	.06	.10	.00	.00	.00	.00	.00	.00	.04	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.21
22	.00	.00	.00	.00	.07	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.02	.00	.11	.00	.00	.00	.37	.00	.00	.00	.03
25	.00	.09	.00	.08	.00	.15	.00	.43	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.13	.00
27	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00
28	.16	.00	.00	.00	.04	.00	.00	.12	.00	.00	.00	.00
29	.26	.00	.00	.00	.65	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00		.00	.41	.89	.00	.00	.17	.00
31	.00		.00	.00		.12		.01		.00	.00	
MONTH	0.76	0.72	0.08	0.48	1.28	1.27	0.54	2.00	2.44	0.10	0.66	0.38

Water year October 1979 to September 1980 YEAR 10.71

Table 4.--*Total daily precipitation, in inches, at station 6*

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.05	0.02	0.00	0.00	0.00
2	.00	.00	.00	.00	.00	.00	.10	.00	.03	.00	.00	.00
3	.00	.00	.00	.00	.11	.17	.04	.00	.00	.03	.05	.00
4	.00	.19	.00	.00	.01	.06	.00	.00	.22	.00	.00	.00
5	.00	.06	.00	.08	.00	.04	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.05	.00	.02	.00	1.21	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00
8	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.10	.00	.00	.00	.24	.00	.00	.00	.08	.00	.00
10	.00	.03	.06	.06	.00	.02	.00	.10	.02	.00	.02	.00
11	.00	.06	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
12	.00	.00	.03	.00	.02	.21	.00	.00	.00	.00	.01	.01
13	.00	.00	.00	.00	.23	.00	.00	.02	.00	.00	.00	.00
14	.00	.00	.00	.00	.04	.00	.00	.00	.22	.00	.06	.00
15	.10	.00	.13	.00	.02	.10	.03	.00	.31	.00	.00	.00
16	.04	.00	.00	.00	.00	.04	.00	.00	.00	.00	.00	.00
17	.13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.03	.00	.00	.16	.00	.00	.00	.00	.00	.00	.00	.01
19	.00	.07	.00	.00	.00	.05	.00	.00	.00	.00	.08	.00
20	.06	.18	.00	.00	.00	.00	.00	.00	.08	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.20
22	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.02	.00	.14	.00	.02	.00	.49	.00	.00	.00	.07
25	.00	.08	.00	.03	.00	.16	.00	.34	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00
27	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00
28	.15	.00	.00	.00	.05	.00	.00	.10	.00	.00	.00	.00
29	.20	.00	.00	.00	.53	.00	.00	.06	.00	.00	.00	.00
30	.00	.00	.00	.00		.00	.68	.98	.00	.00	.20	.00
31	.00		.00	.00		.10		.05		.00	.00	
MONTH	0.76	0.84	0.22	0.47	1.15	1.21	1.02	2.19	2.11	0.11	0.53	0.32

Water year October 1979 to September 1980 YEAR 10.93

Table 5.--*Total daily precipitation, in inches, at station 8*

[Dashes indicate instrument malfunction]

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.0	0.0	0.0	0.0	--	0.1	0.0	0.1	0.0	0.0	--	0.0
2	.0	.0	.0	.0	--	.0	.1	.0	.1	.0	--	.0
3	.0	.0	.0	.0	--	.1	.1	.0	.0	.0	--	.0
4	.0	.1	.0	.0	--	.0	.0	.0	.1	.0	--	.0
5	.0	.1	.0	.0	--	.1	.0	.0	.0	.0	--	.0
6	.0	.0	.1	.0	--	.0	.0	.0	.8	.0	--	.0
7	.0	.0	.0	.0	--	.0	.1	.0	.0	.0	--	.0
8	.0	.0	.0	.1	--	.0	.0	.0	.0	.0	--	.1
9	.0	.1	.0	.0	--	.3	.0	.0	.0	.0	--	.0
10	.0	.0	.0	.0	--	.0	.0	.2	.1	.0	--	.0
11	.0	.1	.0	.0	--	.0	.0	.0	.0	.0	--	.0
12	.0	.0	.1	.0	--	.2	.0	.0	.0	.0	--	.0
13	.0	.0	.0	.0	--	.0	.0	.1	.0	.0	--	.0
14	.0	.0	.0	.0	--	.0	.0	.0	.1	.0	--	.0
15	.0	.0	.1	.0	--	.1	.0	.0	.4	.0	--	.0
16	.0	.0	.0	.0	--	.0	.0	.0	.0	.0	--	.0
17	.0	.0	.0	.0	--	.0	.0	.0	.0	.0	--	.1
18	.0	.0	.0	.2	--	.0	.0	.0	.0	.0	--	.0
19	.0	.1	.0	.0	--	.0	.0	.0	.0	.0	--	.0
20	.0	.1	.0	.0	0.0	.0	.0	.0	.1	.0	0.0	.0
21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
22	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
24	.0	.0	.0	.2	.0	.0	.0	.4	.0	.0	.0	.0
25	.0	.1	.0	.0	.0	.2	.0	.5	.0	.0	.0	.0
26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0
27	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
28	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
29	.1	.0	.0	.0	.4	.0	.0	.1	.0	--	.0	.0
30	.0	.0	.0	--		.0	.0	.8	.0	--	.1	.0
31	.0		.0	--		.1		.1		--	.0	
MONTH	0.2	0.8	0.3	0.5	0.5	1.2	0.3	2.4	1.7	0.0	0.3	0.4

Water year October 1979 to September 1980 YEAR 8.6

Table 6.--*Total daily precipitation, in inches, at station 11*

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.07	0.40	0.00	0.00	0.00
2	.00	.00	.00	.00	.00	.00	.08	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.09	.19	.02	.04	.00	.04	.06	.00
4	.00	.17	.00	.00	.08	.04	.00	.00	.09	.00	.00	.00
5	.00	.07	.00	.12	.00	.03	.00	.00	.00	.00	.00	.00
6	.00	.00	.02	.00	.05	.01	.09	.00	.90	.00	.00	.00
7	.00	.00	.02	.00	.00	.00	.11	.00	.02	.00	.00	.00
8	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04
9	.00	.08	.00	.00	.00	.32	.00	.00	.00	.02	.00	.00
10	.00	.08	.08	.11	.00	.09	.00	.19	.01	.00	.34	.00
11	.00	.13	.00	.00	.00	.00	.05	.00	.00	.00	.00	.03
12	.00	.00	.03	.00	.03	.37	.00	.00	.00	.00	.01	.00
13	.00	.00	.00	.00	.28	.00	.00	.05	.00	.00	.08	.00
14	.00	.00	.00	.00	.06	.00	.00	.00	.10	.00	.00	.00
15	.04	.00	.10	.00	.03	.16	.08	.00	.28	.00	.00	.00
16	.12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.13	.00
17	.08	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00
18	.01	.00	.00	.16	.00	.00	.00	.00	.00	.00	.00	.03
19	.00	.04	.00	.00	.00	.05	.00	.00	.00	.00	.10	.00
20	.03	.06	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.35
22	.00	.00	.00	.00	.07	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.06	.00	.20	.00	.00	.00	.22	.00	.00	.00	.08
25	.00	.14	.00	.04	.00	.15	.00	.42	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.15	.00
27	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00
28	.13	.00	.00	.00	.07	.00	.00	.11	.00	.00	.01	.00
29	.15	.00	.00	.00	.37	.00	.00	.03	.00	.00	.00	.00
30	.00	.00	.00	.00		.00	.03	.66	.00	.00	.20	.00
31	.00		.00	.00		.11		.10		.00	.00	
MONTH	0.61	0.93	0.25	0.65	1.13	1.52	0.54	1.89	1.83	0.06	1.11	0.53

Water year October 1979 to September 1980 YEAR 11.05

Table 7.--*Total daily precipitation, in inches, at station 14*

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.02	0.05	0.00	0.00	0.00
2	.00	.00	.00	.00	.00	.00	.12	.00	.04	.00	.00	.00
3	.00	.00	.00	.00	.11	.17	.04	.00	.00	.02	.10	.00
4	.04	.15	.00	.00	.06	.03	.00	.00	.12	.00	.00	.00
5	.00	.06	.00	.09	.01	.03	.00	.00	.02	.00	.00	.00
6	.00	.00	.00	.00	.05	.00	.05	.00	1.13	.00	.00	.00
7	.00	.00	.38	.00	.00	.00	.06	.00	.00	.00	.00	.00
8	.04	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.04	.00	.00	.00	.31	.00	.00	.00	.05	.05	.00
10	.00	.04	.09	.06	.00	.06	.00	.16	.08	.00	.00	.00
11	.00	.09	.00	.00	.00	.08	.04	.00	.00	.00	.00	.07
12	.00	.00	.04	.00	.07	.19	.00	.00	.00	.00	.01	.00
13	.00	.00	.04	.00	.27	.00	.00	.06	.00	.00	.02	.00
14	.00	.00	.00	.00	.05	.00	.00	.00	.18	.00	.05	.00
15	.05	.00	.04	.00	.03	.11	.06	.00	.46	.00	.10	.00
16	.08	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00
17	.15	.00	.57	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.03	.00	.00	.22	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.07	.00	.00	.00	.04	.00	.00	.00	.00	.02	.00
20	.05	.13	.00	.00	.00	.00	.00	.00	.04	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.15
22	.00	.00	.00	.00	.08	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.05	.00	.22	.00	.04	.00	.50	.00	.00	.00	.05
25	.00	.08	.00	.04	.00	.14	.00	.42	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06	.00
27	.00	.07	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00
28	.17	.00	.00	.00	.24	.00	.00	.00	.00	.00	.00	.00
29	.13	.00	.00	.00	.35	.00	.00	.22	.00	.00	.00	.00
30	.00	.00	.00	.00		.00	.50	.55	.00	.00	.10	.00
31	.00		.00	.00		.13		.04		.00	.00	
MONTH	0.74	0.78	1.26	0.63	1.32	1.33	0.98	1.97	2.12	0.07	0.53	0.27

Water year October 1979 to September 1980 YEAR 12.00

Table 8.--*Total daily precipitation, in inches, at station 17*

[Dashes indicate instrument malfunction]

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	0.05	0.00	0.00	0.00
2	.00	.00	.00	.00	.00	.00	0.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.10	.18	.00	.00	.00	.10	.08	.00
4	.00	.12	.00	.00	.05	.02	.00	.00	.10	.00	.00	.00
5	.00	.06	.00	.06	.00	.07	.00	.00	.05	.00	.00	.00
6	.00	.00	.08	.01	.05	.01	.03	.00	1.14	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04
9	.00	.04	.00	.00	.00	.27	.00	.00	.00	.08	.29	.00
10	.00	.01	.05	.05	.00	.01	.00	.17	.07	.00	.01	.00
11	.00	.09	.00	.00	.00	.00	.03	.00	.00	.00	.00	.13
12	.00	.00	.03	.00	.00	.33	.00	.00	.00	.00	.01	.05
13	.00	.00	.00	.00	.24	.00	.00	.06	.00	.00	.05	.00
14	.00	.00	.00	.00	.04	.00	.00	.00	.20	.00	.04	.00
15	.09	.00	.09	.00	.03	---	.05	.00	.45	.00	.08	.00
16	.07	.00	.00	.00	.00	---	.00	.00	.00	.00	.03	.00
17	.11	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00
18	.06	.00	.00	.09	.00	---	.00	.00	.00	.00	.00	.02
19	.00	.04	.00	.00	.00	---	.00	.00	.00	.00	.01	.00
20	.07	.15	.00	.00	.00	---	.00	.00	.08	.00	.00	.00
21	.00	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.27
22	.00	.00	.00	.00	.08	---	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00
24	.00	.02	.00	.14	.00	---	.00	.55	.00	.00	.00	.08
25	.00	.09	.00	.04	.00	---	.00	.49	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	---	.00	.00	.00	.00	.17	.00
27	.00	.07	.00	.00	.00	---	.00	.00	.00	.00	.01	.00
28	.13	.00	.00	.00	.19	---	.00	.11	.00	.00	.00	.00
29	.15	.00	.00	.00	.31	---	.00	.01	.00	.00	.00	.00
30	.00	.00	.00	.00		---	.79	.70	.00	.00	.41	.00
31	.00		.00	.00		---		.04		.00	.00	
MONTH	0.68	0.69	0.25	0.39	1.09	0.89	0.95	2.13	2.14	0.18	1.19	0.59

Water year October 1979 to September 1980 YEAR 11.17

Table 9.--*Snow depth and equivalent water content at stations 1, 3, 4, 5, 7, 8, 9, 10, 12, 16, and 19*

[T, trace--the average equivalent water content was less than 0.1 inch]

Station number	Date	Average depth (inches)	Water content (inches)
1	1979		
	Nov. 27	1.8	0.2
	Dec. 21	.9	.2
	1980		
	Jan. 29	0	0
	Feb. 19	0	0
	Mar. 10	3.0	1.0
3	1979		
	Nov. 27	2.4	.3
	Dec. 18	.1	T
	1980		
	Jan. 8	.5	.1
	Jan. 30	1.9	.2
	Feb. 19	0	0
	Mar. 11	2.1	.8
4	1979		
	Nov. 28	2.6	.2
	Dec. 18	.3	T
	1980		
	Jan. 8	.6	.1
	Jan. 30	1.8	.2
	Feb. 20	0	0
	Mar. 11	1.9	.6
5	1979		
	Nov. 28	2.0	.2
	Dec. 18	.2	T
	1980		
	Jan. 8	1.1	.1
5	1979		
	Jan. 30	1.7	.1
	Feb. 20	.5	T
	Mar. 11	1.9	.6
7	1979		
	Nov. 27	3.8	0.3
	Dec. 19	.9	.2
	1980		
	Jan. 8	2.2	.2
	Jan. 31	1.8	.2
	Feb. 20	1.4	.4
	Mar. 11	2.7	1.3
8	1979		
	Nov. 27	4.0	.2
	Dec. 19	.6	.2
	1980		
	Jan. 9	.8	.1
	Jan. 31	2.0	.2
	Feb. 20	0	0
	Mar. 11	2.0	.7
9	1979		
	Nov. 29	4.5	.5
	Dec. 19	0	0
	1980		
	Jan. 9	1.3	.1
	Jan. 31	2.2	.2
	Feb. 21	1.5	.5
	Mar. 13	6.2	1.7

Table 9.--*Snow depth and equivalent water content at stations 1, 3, 4, 5, 7, 8, 9, 10, 12, 16, and 19*--Continued

Station number	Date	Average depth (inches)	Water content (inches)
10	1979		
	Nov. 29	3.5	.4
	Dec. 19	0	0
	1980		
	Jan. 9	2.2	.1
	Jan. 31	2.9	.3
	Feb. 21	0	0
	Mar. 12	6.9	1.9
12	1979		
	Nov. 27	6.4	.4
	Dec. 19	0	0
	1980		
	Jan. 9	2.3	.4
12	1980		
	Jan. 30	2.1	.2
	Feb. 20	0	0
	Mar. 11	3.3	1.0
16	1980		
	Jan. 8	.7	.1
	Jan. 31	2.0	.2
	Feb. 20	0	0
	Mar. 11	.6	.2
19	1980		
	Jan. 9	1.1	.1
	Jan. 31	2.2	.2
	Feb. 21	0	0
	Mar. 13	6.4	1.3

Table 10.--*Air temperature, in degrees Celsius, at station 1*

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN
1	10.5	23.5	-3.0	-4.0	3.5	-12.0	-5.5	9.0	-14.0	-3.5	8.0	-11.0
2	8.5	16.0	-0.5	-1.5	10.5	-10.5	-7.5	1.5	-15.0	-4.5	1.0	-10.0
3	6.5	17.0	-3.5	-0.5	9.5	-9.0	-2.0	7.5	-9.0	-5.5	5.0	-11.5
4	10.5	29.0	-5.5	.0	2.0	-2.5	4.5	17.0	-5.0	-8.5	2.5	-15.5
5	11.5	22.0	3.0	-0.5	.5	-2.0	3.5	6.0	-0.5	-7.0	.0	-17.5
6	12.5	25.5	.0	-1.0	2.5	-4.0	5.5	12.0	-1.0	-21.5	-17.0	-29.0
7	13.0	25.5	2.0	-2.5	4.0	-7.0	-3.5	1.0	-8.5	-19.0	-11.0	-27.0
8	5.0	12.5	-2.5	.0	7.0	-6.5	-2.5	10.0	-11.0	-23.5	-21.0	-25.5
9	4.0	11.0	-1.0	-3.0	-1.0	-4.5	-1.0	8.5	-7.5	-20.0	-13.5	-25.5
10	14.5	26.0	-0.5	.0	6.0	-5.0	-5.0	7.0	-13.0	-18.5	-15.0	-23.0
11	13.5	22.5	4.0	-1.5	1.5	-7.0	-14.0	-5.0	-20.5	-22.0	-11.5	-32.5
12	8.0	12.5	-0.5	-2.0	8.0	-9.0	-4.5	5.5	-16.5	-4.0	11.0	-18.0
13	8.5	23.0	-3.0	-1.5	10.5	-9.5	-5.5	3.0	-11.5	3.0	10.5	-5.5
14	13.5	27.5	-1.0	-1.0	15.0	-10.5	-4.5	4.5	-11.0	-1.0	9.5	-7.5
15	13.5	22.0	4.0	.0	17.0	-8.0	-17.0	-5.0	-30.5	-2.0	7.0	-10.5
16	8.0	13.5	1.0	-0.5	16.5	-10.5	-23.5	-13.5	-35.5	-3.0	8.5	-9.5
17	8.0	19.5	-1.5	-0.5	9.0	-8.5	-6.5	4.0	-16.0	-5.0	4.5	-14.5
18	8.5	14.0	1.0	2.0	8.5	-4.5	-1.5	8.5	-12.0	-6.5	-3.0	-13.5
19	8.5	15.0	2.5	-2.5	.0	-6.5	-7.0	8.0	-15.5	-14.0	-5.5	-20.0
20	4.0	10.5	-0.5	-4.0	-1.5	-12.0	-4.0	5.0	-9.0	13.5	-1.5	-23.5
21	1.5	8.5	-5.0	-12.0	-1.0	-20.5	-6.5	6.5	-12.0	-2.5	2.0	-9.5
22	2.0	14.5	-7.0	-10.5	1.5	-18.5	-5.0	3.0	-12.5	-4.5	5.0	-16.0
23	6.0	18.5	-3.5	-4.0	6.0	-18.5	-5.5	2.0	-14.5	6.0	9.5	1.0
24	9.0	17.5	.5	1.5	5.0	-3.0	-8.5	.0	-15.0	3.5	11.0	-4.0
25	10.0	25.5	.0	-3.0	2.0	-12.5	-3.5	9.0	-10.0	-13.0	-4.5	-21.5
26	9.0	15.0	-1.5	-8.5	.5	-15.0	-5.0	5.5	-12.5	-21.0	-17.0	-26.5
27	4.5	17.0	-5.5	-9.0	-3.5	-10.5	-7.5	5.0	-16.0	-24.5	-17.5	-30.0
28	5.5	14.0	-1.5	-11.5	-6.5	-19.5	-5.5	6.0	-14.0	-25.5	-14.0	-32.5
29	2.5	7.5	-4.0	-13.5	-0.5	-22.0	-9.0	3.0	-16.0	-24.5	-14.5	-33.0
30	-1.0	8.0	-8.0	-9.5	5.5	-19.0	-9.5	4.0	-17.0	-21.5	-8.0	-31.5
31	-3.0	5.5	-9.0				-7.5	5.5	-16.5	-16.0	-1.0	-26.5
MONTH	7.5	29.0	-9.0	-3.5	17.0	-22.0	-5.5	17.0	-35.5	-11.0	11.0	-33.0

Table 10.--*Air temperature, in degrees Celsius, at station 1*--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN
1	-6.5	4.5	-18.5	-14.0	3.5	-31.0	1.5	4.0	-1.5	12.0	22.5	2.5
2	-2.0	8.5	-9.5	-6.0	4.0	-19.5	1.5	5.0	-1.0	12.5	22.0	3.5
3	-1.5	5.0	-8.5	-6.0	-1.5	-12.5	1.0	6.0	-5.0	14.5	24.5	1.5
4	2.0	6.5	-4.0	-15.0	-13.0	-17.5	3.0	14.5	-7.0	14.5	22.0	7.0
5	-2.0	4.0	-7.5	-13.0	-7.5	-22.0	5.5	18.0	-5.5	14.0	24.5	2.5
6	-2.5	1.5	-6.5	-8.0	2.5	-20.0	5.5	14.0	-2.5	13.0	23.0	.0
7	-6.0	-2.5	-15.5	-4.5	3.5	-14.5	3.0	7.5	-3.0	9.5	17.5	-1.0
8	-10.5	.5	-20.0	-2.0	6.5	-14.0	2.0	10.0	-9.5	12.5	25.0	-3.0
9	-5.0	4.0	-14.0	2.0	6.5	-2.5	6.0	16.5	-8.0	14.5	21.5	6.0
10	-6.5	-2.0	-14.5	-1.5	7.5	-7.5	5.0	9.0	2.0	8.0	11.0	5.5
11	-10.5	1.0	-19.0	2.0	13.5	-5.5	2.0	7.5	-7.0	9.0	14.5	3.5
12	-6.5	1.0	-13.5	-1.0	3.0	-8.0	.5	11.0	-9.0	7.0	14.5	-2.5
13	-9.5	-6.5	-15.5	-1.0	10.0	-11.0	4.0	17.0	-9.0	4.0	13.0	-3.0
14	-17.5	-14.5	-18.5	2.5	13.0	-7.0	10.0	22.0	-5.0	9.5	19.5	-2.5
15	-17.0	-11.5	-25.0	-1.0	5.5	-7.5	7.0	17.0	-0.5	13.0	22.0	1.5
16	-20.0	-8.5	-30.5	-4.5	2.0	-12.5	9.0	17.5	-1.5	14.0	19.5	4.0
17	-10.5	.5	-24.0	-1.5	9.0	-10.0	9.5	25.0	-4.5	13.0	22.0	3.5
18	-3.5	5.0	-12.5	2.0	10.5	-6.0	12.0	27.0	-2.5	13.0	24.0	.0
19	-2.0	13.5	-10.0	1.5	7.0	-4.5	14.0	28.0	-1.0	13.5	23.0	2.0
20	-1.0	5.5	-7.5	.5	10.0	-6.0	15.0	30.0	.0	18.5	29.0	6.5
21	.0	8.0	-4.0	3.0	8.5	-1.5	18.5	30.5	.5	21.0	33.5	6.0
22	-0.5	5.5	-4.5	1.5	9.0	-6.0	14.5	17.5	9.0	23.0	34.5	6.5
23	-2.0	5.0	-7.0	3.5	13.0	-8.5	11.5	19.5	3.5	22.0	30.5	11.5
24	-2.5	5.5	-9.0	2.0	5.0	-2.0	15.0	23.0	4.0	18.0	28.5	8.5
25	-2.5	8.5	-11.5	-0.5	2.0	-2.0	10.0	18.5	-2.5	11.5	15.5	5.0
26	4.0	13.0	-3.5	-0.5	6.5	-6.5	10.5	18.5	-2.0	13.0	22.0	2.0
27	6.0	18.5	-3.0	1.0	11.0	-9.0	12.0	21.5	-1.0	16.5	27.0	2.5
28	-1.5	2.5	-7.5	2.0	9.5	-5.0	14.0	25.5	.0	15.0	23.5	8.5
29	-12.5	-8.0	-23.5	2.5	12.0	-7.5	16.5	25.5	5.5	12.0	15.5	6.5
30				5.5	13.5	-3.5	14.0	24.0	5.5	11.0	15.5	6.0
31				1.5	3.0	-2.0				10.0	15.0	6.5
MONTH	-5.0	18.5	-30.5	-1.5	13.5	-31.0	8.5	30.5	-9.5	13.5	34.5	-3.0

Table 10.--*Air temperature, in degrees Celsius, at station 1*--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN
1	13.5	24.0	4.5	21.0	29.5	9.5	24.0	31.0	16.0	13.5	23.0	6.5
2	15.5	25.0	4.5	24.0	31.0	14.0	23.5	33.5	11.5	17.5	31.5	3.0
3	18.0	27.0	6.5	21.5	32.5	13.0	14.0	24.5	5.5	14.5	20.5	3.5
4	18.0	25.5	9.5	21.5	32.0	9.0	14.5	22.5	3.0	14.5	30.0	-0.5
5	16.5	22.0	10.5	24.5	36.5	8.5	19.0	33.5	2.0	17.5	34.5	.5
6	10.5	15.0	8.5	27.0	36.5	13.0	21.5	30.5	8.5	20.5	36.0	5.0
7	11.5	16.0	7.5	23.5	29.0	12.5	20.0	25.0	13.0	20.5	32.0	8.5
8	15.0	23.5	6.0	26.0	33.0	19.5	22.0	28.0	15.0	11.5	20.0	2.0
9	18.5	28.0	8.0	24.0	33.5	14.0	20.5	29.0	12.5	13.0	24.5	-0.5
10	22.0	30.5	10.5	31.5	39.0	10.0	17.0	25.0	9.5	17.0	28.0	6.0
11	22.5	30.5	13.0	25.0	33.5	11.0	20.5	31.5	1.5	17.0	23.5	11.0
12	21.0	29.5	11.0	24.5	35.0	11.5	20.5	26.0	10.5	14.0	18.5	10.5
13	20.0	28.0	9.5	21.0	30.5	10.5	15.5	19.5	11.5	15.0	22.0	8.0
14	16.5	24.0	8.0	19.5	30.5	6.0	19.5	27.5	9.0	16.5	27.0	6.5
15	13.0	19.0	7.5	20.0	27.5	11.0	18.0	21.5	15.0	8.5	16.5	4.5
16	15.0	23.0	5.5	22.0	33.5	7.5	16.5	22.5	11.0	11.0	20.0	3.0
17	18.5	28.5	7.0	19.0	28.0	9.5	19.5	30.5	7.5	17.0	27.5	6.5
18	19.5	30.0	8.5	21.0	31.5	5.0	21.0	35.0	7.0	14.5	23.5	2.5
19	18.0	25.5	11.0	23.0	29.5	17.0	15.5	24.5	8.5	14.5	23.0	3.5
20	21.0	31.0	8.5	18.0	25.5	10.5	16.0	23.0	8.5	15.0	25.5	.0
21	21.0	30.0	13.0	21.0	33.0	5.5	8.0	17.0	5.0	8.5	14.0	.0
22	23.5	34.5	11.0	26.0	37.5	11.5	18.5	27.0	8.0	9.0	18.5	-2.5
23	19.5	30.0	10.5	27.0	40.0	12.5	20.0	32.0	10.5	11.0	17.0	4.0
24	19.0	29.0	8.0	24.0	30.5	15.0	23.0	34.5	8.5	7.0	14.5	.5
25	23.5	33.5	10.0	21.5	30.0	14.5	15.0	19.0	10.0	8.0	18.0	.0
26	26.0	38.5	11.5	22.5	32.5	9.5	14.0	21.5	8.5	11.0	24.5	-2.0
27	19.5	24.5	15.0	23.0	33.5	9.0	17.0	30.0	4.5	13.5	30.0	-1.0
28	18.5	26.0	8.5	25.0	37.5	8.5	17.0	25.0	5.0	16.5	32.0	1.5
29	23.0	35.0	4.0	25.0	36.5	11.0	16.5	22.5	12.0	14.0	26.0	2.5
30	22.0	29.5	14.5	25.5	35.0	14.0	14.0	23.5	3.0	14.0	32.0	.5
31				28.5	34.0	13.0	14.0	21.5	6.5			
MONTH	18.5	38.5	4.0	23.5	40.0	5.0	18.0	35.0	1.5	14.0	36.0	-2.5

Water year October 1979 to September 1980 YEAR MEAN 6.5 MAX 40.0 MIN -35.5

Table 11.--*Average daily percent relative humidity at station 1*

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47.5	76.6	76.5	75.1	70.8	70.4	90.0	73.8	63.8	48.0	29.1	51.6
2	54.4	64.2	81.7	90.2	77.3	61.6	72.2	45.5	60.5	40.5	30.0	43.0
3	52.1	65.0	85.3	77.2	83.3	69.3	76.0	82.9	52.5	43.1	50.2	35.7
4	39.6	80.0	65.7	70.9	74.0	63.0	60.8	56.0	55.1	39.4	41.0	33.5
5	33.8	93.2	52.2	70.5	83.4	61.5	62.1	59.2	55.5	32.9	29.3	28.4
6	41.1	93.1	60.1	59.1	88.0	79.3	63.0	46.0	81.5	26.1	26.6	27.9
7	43.5	94.2	77.7	66.5	88.8	73.0	57.0	41.7	67.9	27.0	38.2	32.9
8	73.1	68.5	81.4	68.8	77.2	65.6	48.0	37.5	64.0	32.7	37.0	63.4
9	57.3	74.2	84.0	66.0	74.6	65.7	53.9	61.0	59.6	47.7	46.1	54.3
10	39.5	87.7	82.5	74.2	73.2	75.0	86.2	58.8	48.5	16.8	50.2	43.7
11	51.1	89.5	73.4	68.4	71.3	55.3	58.3	53.3	45.2	29.1	40.2	56.9
12	67.4	77.7	63.3	65.4	81.4	77.5	63.9	58.3	48.5	27.4	43.1	70.8
13	66.7	72.5	77.0	67.4	85.9	60.8	55.3	56.0	45.3	40.3	67.0	63.1
14	51.9	70.1	80.4	88.0	74.6	65.7	51.3	51.7	61.6	55.4	57.5	59.2
15	50.5	68.7	70.9	80.6	70.5	61.5	86.4	41.9	80.1	43.0	71.0	71.2
16	81.2	67.1	69.4	81.0	69.5	57.5	38.4	48.7	67.1	34.0	69.3	57.8
17	76.0	75.0	76.4	79.2	74.0	71.2	48.8	45.8	59.3	43.2	53.4	45.4
18	78.0	78.0	71.4	82.5	84.8	84.7	49.6	44.7	57.8	41.5	42.5	60.1
19	71.8	90.9	79.8	81.6	86.5	73.2	49.0	47.2	66.9	31.4	58.0	51.7
20	71.8	93.5	84.5	75.1	80.0	42.5	45.5	37.1	57.6	44.0	48.0	42.6
21	83.0	83.2	83.8	68.0	83.5	74.8	38.1	35.9	60.9	36.4	68.0	69.2
22	75.0	80.2	84.2	64.6	64.4	93.5	55.8	31.9	50.2	31.1	45.9	57.0
23	65.5	66.4	79.8	48.4	82.7	77.3	42.7	31.2	52.6	27.1	45.9	50.2
24	64.0	58.7	86.8	69.7	79.8	93.3	54.6	42.8	49.4	30.0	37.4	67.3
25	63.4	75.7	79.0	74.4	74.3	87.5	42.0	56.6	40.0	41.1	37.4	65.7
26	51.3	71.8	78.3	72.5	63.9	76.7	85.8	42.6	43.4	36.4	60.7	54.6
27	56.7	69.5	79.4	69.5	63.2	96.8	45.3	40.4	29.2	28.0	57.2	45.4
28	69.0	75.5	78.7	64.7	65.8	71.7	55.0	52.5	28.1	27.0	52.8	42.9
29	84.9	74.5	80.0	66.7	69.3	65.5	56.2	73.8	32.3	27.1	38.3	44.2
30	77.1	69.0	76.6	65.2		53.5	46.1	73.2	38.9	28.6	52.2	48.1
31	84.3		73.2	68.1		77.7		78.6		20.1	54.6	
MEAN	62.0	76.8	76.6	71.6	76.4	71.0	57.9	51.8	54.1	34.7	47.7	51.3

Water year October 1979 to September 1980 YEAR MEAN 60.9 MAX 96.8 MIN 16.8

Table 12.--*Wind run, in total miles per day, at station 1*

[Dashes indicate instrument malfunction]

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122	69	133	197	79	142	96	103	125	123	---	---
2	194	66	55	67	71	117	87	98	110	122	---	---
3	73	76	74	111	71	57	106	100	154	135	---	---
4	202	131	118	75	84	80	89	88	94	120	---	---
5	121	75	138	73	87	79	49	106	108	122	---	---
6	63	87	90	82	80	88	66	195	128	134	---	---
7	57	63	88	81	206	111	232	166	142	123	---	---
8	132	81	123	65	71	122	83	114	59	127	---	---
9	62	120	60	55	68	163	92	90	143	108	---	---
10	106	161	189	64	115	81	136	99	96	126	---	---
11	101	98	56	126	108	83	151	158	85	132	---	---
12	197	148	134	126	121	124	270	150	89	128	---	---
13	133	152	72	86	59	182	97	148	101	126	---	---
14	91	63	78	57	176	80	75	88	147	163	---	---
15	88	49	201	60	114	55	105	81	94	103	---	---
16	42	64	97	92	48	65	121	107	110	94	---	---
17	63	68	74	73	100	101	132	141	203	119	---	---
18	66	135	72	79	61	125	138	111	155	100	---	---
19	65	95	67	132	81	165	108	179	158	96	---	210
20	93	65	148	107	117	68	75	97	154	108	---	74
21	113	60	127	94	62	69	86	174	79	107	---	85
22	76	59	77	208	221	128	122	104	80	170	---	76
23	83	81	115	93	82	121	134	84	84	97	---	104
24	184	73	150	75	70	94	148	99	83	---	---	66
25	154	65	126	82	72	166	157	137	102	---	---	81
26	111	86	54	48	84	114	148	76	114	---	---	169
27	59	87	64	82	124	115	101	99	85	---	---	141
28	80	102	244	92	76	101	216	154	98	---	---	81
29	147	94	77	81		134	102	103	111	---	---	75
30	75	73	61	75		89	83	99	158	---	---	155
31	57		84	48		141		146		---	---	
TOTAL	3210	2646	3246	2786	2708	3360	3605	3694	3449	---	---	---

Water year October 1978 to September 1979

Table 12.--*Wind run, in total miles per day, at station 1*--Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	94	93	---	---	47	81	88	98	99	175	93
2	147	101	51	---	---	48	105	132	94	117	137	110
3	148	79	54	---	---	110	68	103	108	156	167	206
4	101	70	179	---	---	108	97	132	101	107	215	88
5	97	46	187	---	73	81	81	86	101	90	96	80
6	122	58	269	---	41	60	185	131	97	110	135	92
7	121	72	---	---	78	100	260	107	112	113	134	100
8	140	173	---	---	73	95	156	140	94	144	177	163
9	73	121	---	---	110	121	83	115	77	118	128	123
10	193	53	---		110	41	194	109	115	146	118	87
11	131	114	---	---	72	61	147	88	108	104	98	153
12	91	102	---	---	90	178	89	84	101	109	144	127
13	72	84	---	---	90	96	91	90	111	128	94	172
14	68	89	---	---	101	71	134	85	123	99	151	94
15	100	76	---	---	71	114	157	201	101	185	115	141
16	111	80	---	---	66	35	183	253	77	84	194	119
17	79	57	---	---	57	55	82	98	99	147	93	183
18	105	98	---	---	64	103	110	95	83	96	150	127
19	100	85	---	---	50	151	88	101	83	148	105	157
20	100	76	---	---	75	94	99	111	102	111	187	87
21	61	65	---	---	60	107	94	108	84	93	90	140
22	62	65	---	---	84	141	137	107	91	82	119	81
23	75	115	---	---	103	102	201	138	158	121	125	118
24	70	167	---	---	194	99	200	172	97	163	105	140
25	61	128	---	---	70	104	142	178	114	102	151	85
26	183	104	---	---	101	92	141	113	108	121	96	90
27	88	257	---	---	135	78	155	120	264	149	117	68
28	85	---	---	---	130	103	95	128	251	84	96	97
29	90	68			123	103	126	79	79	128	137	132
30	76	81				111	128	104	138	114	143	129
31	103					109		77		151	138	
TOTAL	3139	---	---	---	---	2918	3909	3673	3369	3719	4130	3582

Water year October 1979 to September 1980

Table 13.--*Total daily solar radiation, in calories per square centimeter per day, at station 1*

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	340	173	187	160	150	258	188	469	664	673	547	385
2	197	290	89	128	215	226	338	533	625	641	659	442
3	407	221	104	97	83	129	227	553	659	593	345	487
4	390	82	107	129	232	209	511	498	676	689	552	532
5	353	74	79	68	108	307	413	604	616	706	659	538
6	361	107	92	159	108	343	353	643	250	697	637	527
7	241	140	124	150	49	413	246	664	425	555	506	341
8	69	171	177	121	257	381	574	568	615	551	473	113
9	327	142	158	149	171	219	455	413	708	690	601	483
10	333	151	80	39	146	310	271	222	676	618	493	476
11	336	78	173	180	281	308	466	500	665	708	574	376
12	110	253	167	91	107	256	395	327	669	338	583	312
13	332	236	182	143	43	391	603	334	722	519	185	389
14	290	245	77	98	47	351	562	530	424	566	443	460
15	196	237	119	192	74	179	308	634	350	669	177	83
16	203	249	178	210	93	408	584	475	685	694	330	419
17	287	136	114	192	143	410	592	617	682	440	545	449
18	263	113	189	93	153	409	523	614	481	668	518	342
19	136	42	184	143	248	288	567	394	318	556	462	431
20	195	26	84	205	146	400	597	645	684	612	439	424
21	238	55	146	119	213	291	488	677	649	687	541	215
22	287	70	103	179	218	390	506	685	680	650	485	440
23	278	218	162	157	352	472	441	670	638	502	536	314
24	257	117	122	111	338	191	617	500	650	523	571	273
25	262	173	157	124	283	125	625	309	719	505	470	421
26	203	201	150	197	325	423	591	666	717	623	417	401
27	289	199	173	158	284	475	617	651	728	663	416	395
28	130	95	172	251	106	402	631	532	747	660	455	332
29	124	207	169	223	173	504	477	251	691	332	505	385
30	227	186	162	227		340	419	446	570	628	412	373
31	199		164	229		117		222		662	404	
TOTAL	7860	4687	4344	4722	5146	9925	14185	15846	18383	18618	14940	11558

Water year October 1979 to September 1980

Table 14.--*Average daily soil temperature, in degrees Celsius, at station 1*

Thermocouple array a

Depth of observation 0.06 ft

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.2	0.1	-5.3	-5.6	-8.9	-0.3	4.3	14.0	15.2	23.0	26.8	15.2
2	11.9	.1	-5.1	-4.6	-5.9	-0.4	4.7	13.9	15.4	24.5	26.3	16.7
3	9.9	.4	-3.2	-4.9	-4.4	-0.5	4.1	14.3	16.3	23.6	20.4	16.5
4	11.2	1.3	-1.6	-6.7	-1.4	-0.9	3.8	14.9	17.7	23.6	18.3	15.6
5	12.3	2.1	-0.2	-5.3	-2.3	-1.1	5.0	15.2	17.4	24.7	21.7	17.3
6	12.7	2.2	.4	-8.3	-2.5	-1.1	5.5	14.6	14.0	26.4	23.8	18.9
7	13.1	1.8	-0.1	-9.6	-2.6	-0.8	4.0	13.5	14.0	25.4	23.6	19.8
8	9.5	1.0	-0.8	-9.9	-5.1	-0.3	3.4	14.8	15.7	26.2	24.8	16.4
9	8.5	.4	-1.1	-9.8	-4.7	-0.1	5.1	15.5	17.7	24.4	24.7	15.8
10	12.3	1.8	-1.8	-9.2	-4.0	-0.1	6.0	12.0	19.4	27.6	21.5	17.9
11	12.9	1.6	-5.7	-9.6	-6.8	-0.1	5.0	12.5	20.2	26.0	22.7	17.4
12	11.4	.2	-4.8	-7.6	-5.6	.0	3.6	11.1	19.6	24.6	23.9	16.1
13	10.0	-0.3	-4.5	-4.7	-4.7	-0.3	4.9	11.1	19.4	24.2	20.1	16.3
14	11.9	-0.7	-4.5	-3.8	-5.8	-0.1	7.4	11.6	17.8	23.1	21.8	17.2
15	13.5	-0.5	-7.0	-4.0	-6.5	.0	7.5	14.2	16.4	23.5	20.4	13.0
16	11.3	-1.0	-8.1	-4.1	-7.7	-0.1	7.8	15.3	16.8	24.3	18.7	13.4
17	9.5	-0.8	-6.0	-5.5	-7.0	-0.5	8.7	15.7	18.0	22.7	18.8	16.5
18	9.8	.4	-4.5	-4.0	-4.5	-0.1	10.1	16.1	18.5	23.6	18.8	16.1
19	9.1	-0.2	-5.8	-5.2	-3.3	.2	11.8	15.7	18.0	25.1	17.4	16.1
20	6.9	.0	-4.5	-6.2	-2.1	.7	12.9	18.5	19.5	22.7	16.7	15.3
21	5.1	-1.4	-5.2	-4.6	-0.7	2.3	14.3	20.7	20.6	24.1	13.0	12.5
22	4.3	-2.6	-4.9	-5.0	-0.6	2.0	14.2	22.2	21.5	26.3	18.3	10.8
23	5.8	-2.3	-4.8	-1.8	-0.9	2.5	12.9	22.8	20.5	27.1	19.5	12.0
24	8.0	-0.2	-5.9	-0.2	-1.5	3.5	14.2	20.1	20.0	26.6	20.5	10.1
25	8.5	-0.7	-4.3	-2.0	-2.1	1.3	12.6	13.9	21.8	24.8	18.2	10.6
26	8.1	-3.2	-5.2	-7.9	-0.7	2.5	13.0	14.3	23.9	25.4	17.2	11.0
27	5.6	-3.5	-6.6	-11.4	.0	2.1	13.7	15.9	21.1	25.4	17.5	12.7
28	6.3	-4.8	-6.4	-13.6	.0	3.3	14.8	15.9	20.2	26.3	17.9	14.3
29	5.4	-6.5	-7.4	-14.4	-0.1	3.1	16.0	14.6	22.1	25.9	18.0	13.9
30	2.2	-6.1	-8.0	-14.2		4.6	15.5	13.7	23.0	27.3	17.3	13.1
31	.5		-7.4	-12.8		3.8		13.4		27.3	15.7	
MEAN	9.1	-0.7	-4.5	-7.0	-3.5	.8	8.9	15.2	18.7	25.0	20.1	15.0

Water year October 1979 to September 1980 YEAR MEAN 8.1 MAX 27.6 MIN -14.4

Table 14.--*Average daily soil temperature, in degrees Celsius, at station 1*--Continued

Thermocouple array a--Continued

Depth of observation 0.15 ft

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.5	0.8	-4.8	-5.6	-9.0	-0.2	4.2	14.1	15.2	22.5	26.6	15.6
2	12.6	.7	-4.7	-4.6	-6.1	-0.4	4.7	14.1	15.4	23.9	26.1	16.6
3	10.7	.8	-3.1	-4.7	-4.6	-0.4	4.3	14.3	16.0	23.4	21.8	16.9
4	11.2	1.6	-1.8	-6.2	-1.7	-0.7	3.9	14.8	17.6	23.2	19.2	15.8
5	12.3	2.4	-0.3	-5.2	-2.3	-0.9	4.9	15.1	17.5	24.1	21.3	17.0
6	12.7	2.6	.2	-7.4	-2.7	-1.0	5.6	14.6	14.4	25.5	23.3	18.4
7	13.1	2.2	.0	-8.9	-2.5	-0.8	4.3	13.8	14.2	25.0	23.3	19.4
8	10.7	1.5	-0.5	-9.3	-4.8	-0.4	3.7	14.4	15.7	25.6	24.1	17.2
9	9.2	1.0	-0.9	-9.3	-4.6	-0.1	4.9	15.4	17.5	24.5	24.6	15.9
10	11.8	2.0	-1.3	-8.8	-3.8	-0.1	6.0	12.7	19.1	27.3	21.7	17.6
11	12.6	2.0	-4.6	-9.1	-6.5	-0.1	5.4	12.8	20.0	25.6	22.2	17.6
12	12.0	.7	-4.6	-7.7	-5.6	.0	3.9	11.7	19.6	24.4	24.1	16.5
13	10.4	.2	-4.1	-4.9	-4.5	-0.3	4.9	11.6	19.5	24.2	20.9	16.4
14	11.6	-0.2	-4.2	-4.0	-5.5	-0.1	7.0	11.6	18.2	23.1	21.7	17.2
15	13.2	-0.2	-6.1	-4.1	-6.2	-0.1	7.9	13.8	16.9	23.5	20.8	14.1
16	12.0	-0.7	-7.4	-4.0	-7.3	-0.1	7.7	14.9	17.0	23.8	19.6	13.7
17	10.0	-0.5	-5.9	-5.3	-6.9	-0.4	8.5	15.3	18.0	23.0	19.1	16.1
18	10.3	.5	-4.4	-4.0	-4.6	-0.2	9.8	15.7	18.6	23.2	19.1	16.0
19	9.8	.2	-5.4	-4.9	-3.4	.0	11.3	15.5	18.1	24.7	17.9	16.4
20	7.8	.3	-4.5	-5.9	-2.3	.5	12.4	17.6	19.2	23.1	17.2	15.2
21	6.2	-0.7	-4.8	-4.6	-0.8	2.0	13.5	19.5	20.4	23.7	14.2	13.6
22	5.1	-1.9	-4.7	-4.8	-0.7	2.1	13.9	21.1	21.2	26.0	18.3	11.4
23	6.2	-2.0	-4.5	-2.2	-0.8	2.2	12.7	21.9	20.6	26.8	19.4	12.4
24	8.0	-0.3	-5.5	-0.4	-1.4	3.4	13.7	19.7	20.0	26.1	20.2	10.8
25	8.6	-0.3	-4.3	-1.6	-2.1	1.7	12.6	14.6	21.3	24.0	18.6	11.0
26	8.5	-2.2	-4.8	-7.1	-0.8	2.5	12.8	14.6	23.2	25.2	17.7	11.1
27	6.2	-2.8	-6.1	-10.7	-0.2	2.2	13.4	15.9	21.3	25.1	17.6	12.6
28	6.6	-3.9	-6.0	-12.8	-0.1	3.3	14.3	16.2	20.2	26.1	17.9	13.9
29	6.1	-5.5	-6.8	-13.8	-0.1	3.2	15.4	15.0	21.4	25.5	18.2	13.9
30	3.1	-5.5	-7.4	-13.7		4.4	15.3	14.0	22.7	26.7	17.5	12.7
31	1.4		-7.2	-12.6		4.0		13.6		26.9	16.3	
MEAN	9.5	-0.2	-4.2	-6.7	-3.5	.8	8.8	15.2	18.7	24.7	20.3	15.1

Water year October 1979 to September 1980 YEAR MEAN 8.2 MAX 27.3 MIN -13.8

Table 14.--*Average daily soil temperature, in degrees Celsius, at station 1*--Continued

Thermocouple array a--Continued

Depth of observation 0.32 ft

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.8	1.8	-4.2	-5.6	-9.2	-0.4	4.1	14.2	14.9	22.2	26.4	16.1
2	13.3	1.5	-4.1	-4.7	-6.4	-0.5	4.6	14.0	15.4	23.4	25.8	16.6
3	11.6	1.4	-3.0	-4.5	-5.1	-0.5	4.3	14.1	15.7	23.2	23.1	17.4
4	11.5	2.0	-2.1	-5.6	-2.6	-0.7	3.9	14.6	17.2	22.9	20.1	16.1
5	12.5	2.7	-0.6	-5.1	-2.5	-0.9	4.7	14.9	17.5	23.6	21.2	16.9
6	12.7	3.0	.0	-6.5	-2.9	-1.0	5.4	14.6	14.9	24.8	23.0	18.1
7	13.1	2.7	.1	-8.1	-2.5	-0.9	4.5	14.0	14.4	24.7	23.4	19.1
8	11.8	2.0	-0.2	-8.5	-4.3	-0.6	3.8	14.1	15.5	25.1	23.9	18.0
9	10.0	1.6	-0.5	-8.7	-4.6	-0.3	4.6	15.3	17.1	24.4	24.4	16.1
10	11.5	2.2	-0.9	-8.3	-3.7	-0.2	5.9	13.4	18.6	26.7	22.8	17.4
11	12.4	2.4	-3.3	-8.5	-5.9	-0.2	5.5	12.9	19.6	25.2	21.5	17.8
12	12.4	1.3	-4.2	-7.6	-5.6	-0.2	4.2	12.1	19.4	24.3	24.1	16.9
13	10.8	.8	-3.6	-5.2	-4.4	-0.3	4.8	11.8	19.4	24.1	21.5	16.6
14	11.4	.3	-3.9	-4.2	-5.2	-0.3	6.5	11.5	18.5	23.2	21.5	17.2
15	13.0	.2	-5.1	-4.3	-5.8	-0.2	7.7	13.3	17.3	23.5	21.2	15.2
16	12.5	-0.3	-6.4	-3.9	-6.8	-0.1	7.5	14.5	17.0	23.5	19.7	14.1
17	10.4	-0.3	-5.6	-5.0	-6.6	-0.3	8.2	15.0	18.0	23.2	19.2	15.9
18	10.7	.6	-4.3	-4.0	-4.8	-0.2	9.3	15.4	18.5	22.9	19.3	16.0
19	10.3	.6	-4.9	-4.5	-3.7	-0.1	10.7	15.3	18.2	24.4	18.4	16.6
20	8.6	.6	-4.4	-5.5	-2.8	.5	11.8	16.8	18.9	23.3	17.7	15.3
21	7.2	.0	-4.4	-4.7	-1.4	1.7	12.7	18.5	20.1	23.4	15.7	14.6
22	5.9	-1.0	-4.5	-4.7	-1.1	2.0	13.5	20.1	20.8	25.2	18.4	12.0
23	6.5	-1.5	-4.1	-3.0	-1.1	1.9	12.6	21.1	20.6	26.1	19.4	12.9
24	7.9	-0.2	-5.0	-1.1	-1.5	3.2	13.2	19.5	20.0	25.1	20.0	11.6
25	8.5	.1	-4.3	-1.5	-2.1	2.0	12.6	15.4	20.9	24.7	19.1	11.5
26	8.7	-1.2	-4.4	-5.8	-1.2	2.4	12.6	14.8	22.6	25.0	18.2	11.4
27	6.9	-1.9	-5.5	-9.3	-0.6	2.2	13.2	15.8	21.6	24.8	17.8	12.6
28	6.8	-2.8	-5.6	-11.4	-0.4	3.1	13.8	16.3	20.4	25.6	18.1	13.5
29	6.8	-4.3	-6.1	-12.5	-0.4	3.1	14.9	15.3	21.0	25.3	18.4	14.0
30	4.2	-4.6	-6.7	-12.8		4.0	15.1	14.2	22.5	26.1	17.8	12.6
31	2.5		-6.7	-12.0		4.1		13.8		26.4	16.9	
MEAN	9.9	.3	-3.8	-6.4	-3.6	.7	8.5	15.1	18.5	24.4	20.6	15.3

Water year October 1979 to September 1980 YEAR MEAN 8.3 MAX 26.7 MIN -12.8

Table 14.--*Average daily soil temperature, in degrees Celsius, at station 1*--Continued

Thermocouple array a--Continued

Depth of observation 0.65 ft

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.8	3.9	-2.8	-5.0	-8.8	-0.6	4.0	14.0	14.6	21.7	26.0	17.1
2	14.5	3.3	-2.8	-4.4	-6.7	-0.6	4.3	13.8	15.4	22.6	25.5	17.0
3	13.1	3.0	-2.3	-4.0	-5.5	-0.6	4.3	13.8	15.4	22.8	24.4	17.9
4	12.5	3.2	-1.6	-4.6	-3.8	-0.6	4.0	14.2	16.5	22.5	21.5	16.8
5	13.1	3.6	-0.6	-4.6	-3.1	-0.8	4.4	14.4	17.1	22.9	21.4	17.2
6	13.2	4.0	.0	-4.9	-3.1	-0.8	5.2	14.4	15.6	23.8	22.7	18.0
7	13.5	3.8	.4	-6.3	-2.6	-0.8	4.8	14.1	14.8	24.2	23.3	18.9
8	13.2	3.3	.4	-6.2	-3.4	-0.7	4.2	13.9	15.2	24.3	23.5	18.8
9	11.5	3.0	.1	-7.1	-4.0	-0.5	4.4	14.9	16.4	24.2	24.0	16.9
10	11.7	3.1	.0	-7.0	-3.4	-0.4	5.6	14.0	17.7	25.0	23.4	17.5
11	12.6	3.4	-1.3	-7.1	-4.5	-0.3	5.6	13.1	18.7	24.5	22.5	18.0
12	13.0	2.8	-2.8	-6.9	-4.9	-0.3	4.7	12.7	18.9	24.2	23.5	17.6
13	11.8	2.2	-2.5	-5.4	-4.1	-0.2	4.8	11.8	19.0	23.9	22.3	17.1
14	11.8	1.7	-2.8	-4.5	-4.3	-0.2	5.9	11.6	18.7	23.3	21.6	17.3
15	12.9	1.4	-3.3	-4.2	-4.9	-0.2	7.3	12.7	17.8	23.4	21.7	16.7
16	13.2	1.1	-4.5	-3.8	-5.4	-0.1	7.2	13.8	17.2	23.2	20.5	15.1
17	11.6	.9	-4.6	-4.3	-5.7	-0.1	7.7	14.3	17.7	23.4	19.8	15.9
18	11.5	1.3	-3.7	-3.9	-4.8	-0.1	8.6	14.8	18.2	22.7	19.8	16.3
19	11.2	1.5	-3.9	-3.9	-4.0	.1	9.7	15.0	18.1	23.8	19.2	16.8
20	10.2	1.5	-3.8	-4.5	-3.2	.5	10.8	15.7	18.4	23.5	18.6	15.9
21	9.1	1.2	-3.6	-4.4	-2.2	1.3	11.7	17.1	19.4	23.1	17.8	15.8
22	7.7	.5	-3.8	-4.2	-1.8	1.8	12.6	18.6	20.1	23.2	18.7	13.6
23	7.6	-0.1	-3.4	-3.5	-1.4	1.8	12.2	19.7	20.3	24.1	19.4	13.8
24	8.4	.4	-3.9	-1.9	-1.5	2.7	12.5	19.6	19.9	24.4	19.9	12.9
25	9.0	.8	-3.8	-1.6	-1.8	2.4	12.4	16.5	20.3	24.8	19.9	12.5
26	9.3	.2	-3.6	-3.6	-1.4	2.3	12.3	15.2	21.5	24.7	19.0	12.2
27	8.3	-0.4	-4.3	-6.4	-1.1	2.4	12.7	15.7	21.6	24.6	18.5	12.9
28	7.8	-1.0	-4.5	-8.4	-0.8	2.9	13.2	16.3	20.6	25.0	18.5	13.6
29	8.0	-2.0	-4.8	-9.8	-0.7	3.1	14.1	15.7	20.6	25.1	18.9	14.3
30	6.3	-2.7	-5.3	-10.4		3.7	14.5	14.5	21.9	25.3	18.4	13.6
31	4.8		-5.6	-10.3		4.1		14.2		25.8	17.9	
MEAN	10.9	1.6	-2.9	-5.4	-3.6	.7	8.2	14.8	18.2	23.9	21.0	15.9

Water year October 1979 to September 1980 YEAR MEAN 8.7 MAX 26.0 MIN -10.4

Table 14.--*Average daily soil temperature, in degrees Celsius, at station 1*--Continued

Thermocouple array a--Continued

Depth of observation 1.63 ft

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.3	8.1	0.8	-2.7	-5.6	-1.1	3.4	12.4	14.3	20.1	24.1	18.6
2	16.0	7.4	.5	-2.7	-5.3	-1.0	3.6	12.3	14.4	20.3	24.2	18.2
3	15.6	6.8	.4	-2.6	-4.8	-0.9	3.8	12.4	14.7	20.7	24.1	18.3
4	14.9	6.4	.4	-2.5	-4.3	-0.8	3.8	12.5	15.0	20.8	23.3	18.2
5	14.6	6.3	.7	-2.7	-3.7	-0.7	3.9	12.7	15.5	21.0	22.3	18.0
6	14.6	6.3	1.1	-2.6	-3.3	-0.7	4.2	12.9	15.8	21.3	22.2	18.1
7	14.6	6.3	1.4	-2.8	-3.0	-0.7	4.4	13.0	15.3	21.8	22.5	18.4
8	14.7	6.1	1.6	-2.8	-2.7	-0.6	4.3	13.0	15.0	22.0	22.6	18.8
9	14.1	5.9	1.7	-3.4	-2.7	-0.6	4.2	13.2	15.2	22.2	22.8	18.4
10	13.6	5.6	1.6	-3.6	-2.8	-0.5	4.5	13.4	15.7	22.1	22.9	18.1
11	13.6	5.6	1.5	-3.9	-2.7	-0.4	4.9	12.9	16.3	22.4	21.8	18.2
12	13.8	5.5	.8	-4.1	-3.0	-0.3	4.9	12.7	16.9	22.6	22.5	18.2
13	13.7	5.2	.3	-4.1	-3.1	-0.2	4.8	12.1	17.2	22.5	22.5	18.0
14	13.3	4.9	.0	-3.7	-3.0	-0.1	5.0	11.8	17.5	22.4	22.0	17.8
15	13.4	4.5	-0.2	-3.4	-3.1	.0	5.5	11.8	17.4	22.3	21.8	17.9
16	13.7	4.2	-0.6	-3.2	-3.2	.1	6.0	12.2	17.0	22.2	21.5	17.2
17	13.5	3.9	-1.2	-3.0	-3.4	.1	6.4	12.6	16.9	22.3	20.9	16.8
18	13.1	3.7	-1.4	-3.0	-3.6	.2	6.8	13.0	17.0	22.2	20.6	16.9
19	12.9	3.8	-1.3	-2.8	-3.4	.3	7.5	13.4	17.3	22.2	20.4	17.0
20	12.5	3.8	-1.4	-2.8	-3.1	.6	8.2	13.6	17.2	22.5	20.0	17.0
21	12.0	3.7	-1.4	-3.0	-2.8	.9	8.9	14.2	17.6	22.3	19.8	16.9
22	11.3	3.4	-1.5	-2.9	-2.5	1.3	9.7	15.0	18.1	22.4	19.4	16.3
23	10.6	3.1	-1.5	-2.9	-2.2	1.5	10.2	16.0	18.5	22.9	19.5	15.7
24	10.4	2.9	-1.5	-2.5	-2.0	1.8	10.4	16.6	18.7	23.3	19.7	15.3
25	10.5	2.9	-1.7	-2.2	-1.8	2.2	10.6	16.5	18.8	23.5	20.0	14.8
26	10.6	2.8	-1.7	-2.0	-1.7	2.1	10.8	15.6	19.1	23.4	19.9	14.4
27	10.5	2.5	-1.7	-2.3	-1.6	2.3	10.9	15.1	19.7	23.4	19.5	14.3
28	10.1	2.2	-2.0	-3.2	-1.4	2.4	11.2	15.2	19.7	23.4	19.3	14.4
29	10.0	1.8	-2.1	-4.1	-1.3	2.7	11.6	15.3	19.5	23.6	19.3	14.6
30	9.7	1.3	-2.3	-4.8		2.9	12.1	14.9	19.8	23.7	19.2	14.8
31	8.9		-2.5	-5.4		3.3		14.5		23.8	19.1	
MEAN	12.8	4.6	-0.4	-3.2	-3.0	.5	6.9	13.6	17.0	22.3	21.3	17.0

Water year October 1979 to September 1980 YEAR MEAN 9.2 MAX 24.2 MIN -5.6

Table 14.--*Average daily soil temperature, in degrees Celsius, at station 1*--Continued

Thermocouple array a--Continued

Depth of observation 3.27 ft

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.1	11.7	5.2	0.8	-1.1	-0.6	2.7	9.2	13.2	17.5	21.3	19.1
2	17.0	11.3	4.9	.7	-1.3	-0.5	2.9	9.5	13.1	17.7	21.5	18.9
3	16.8	10.9	4.6	.6	-1.4	-0.4	3.0	9.7	13.1	17.8	21.6	18.7
4	16.6	10.5	4.4	.5	-1.5	-0.2	3.2	9.8	13.2	18.0	21.7	18.6
5	16.3	10.2	4.2	.4	-1.6	-0.1	3.3	10.0	13.3	18.2	21.6	18.5
6	16.1	9.9	4.1	.4	-1.5	.0	3.4	10.1	13.6	18.4	21.3	18.4
7	15.9	9.7	4.1	.3	-1.5	.0	3.5	10.4	14.0	18.6	21.2	18.3
8	15.8	9.5	4.1	.1	-1.3	.1	3.7	10.5	13.9	18.8	21.1	18.4
9	15.7	9.3	4.1	.1	-1.3	.2	3.8	10.7	13.9	19.1	21.1	18.4
10	15.5	9.1	4.2	.0	-1.2	.2	3.8	10.9	13.9	19.3	21.1	18.4
11	15.3	8.9	4.2	-0.1	-1.1	.2	4.0	11.0	14.1	19.4	21.2	18.3
12	15.2	8.8	4.1	-0.3	-1.1	.2	4.1	11.0	14.3	19.6	21.1	18.2
13	15.1	8.6	3.9	-0.5	-1.1	.4	4.2	11.0	14.6	19.7	21.1	18.2
14	14.9	8.4	3.7	-0.6	-1.0	.3	4.3	10.9	14.9	19.8	21.1	18.1
15	14.8	8.2	3.5	-0.7	-1.1	.5	4.4	10.8	15.1	19.9	21.0	18.0
16	14.7	8.0	3.3	-0.7	-1.1	.6	4.6	10.8	15.3	19.9	20.9	17.9
17	14.7	7.7	3.0	-0.7	-1.1	.7	4.9	10.8	15.3	20.0	20.7	17.7
18	14.6	7.5	2.7	-0.6	-1.2	.7	5.1	11.0	15.4	20.1	20.5	17.6
19	14.4	7.3	2.5	-0.6	-1.3	.8	5.4	11.2	15.4	20.0	20.3	17.5
20	14.3	7.1	2.3	-0.6	-1.3	.9	5.7	11.3	15.5	20.1	20.2	17.4
21	14.1	6.9	2.2	-0.6	-1.3	1.1	6.0	11.5	15.5	20.2	20.1	17.4
22	13.9	6.8	2.0	-0.6	-1.3	1.2	6.4	11.7	15.7	20.2	19.8	17.3
23	13.6	6.7	1.9	-0.6	-1.2	1.4	6.9	12.1	15.9	20.3	19.6	17.1
24	13.2	6.5	1.8	-0.6	-1.1	1.5	7.3	12.5	16.2	20.4	19.5	16.9
25	12.9	6.3	1.7	-0.5	-1.0	1.7	7.6	12.9	16.4	20.6	19.5	16.6
26	12.8	6.1	1.6	-0.4	-0.9	1.9	7.9	13.2	16.5	20.8	19.5	16.4
27	12.7	5.9	1.5	-0.4	-0.8	2.1	8.2	13.2	16.8	20.9	19.5	16.1
28	12.6	5.7	1.4	-0.3	-0.8	2.2	8.4	13.2	17.0	21.0	19.4	15.9
29	12.4	5.7	1.3	-0.4	-0.7	2.3	8.6	13.2	17.2	21.0	19.3	15.8
30	12.2	5.5	1.2	-0.7		2.5	8.9	13.3	17.3	21.1	19.2	15.8
31	12.0		1.0	-0.9		2.6		13.2		21.2	19.1	
MEAN	14.6	8.2	3.1	-0.2	-1.2	.8	5.2	11.3	15.0	19.7	20.5	17.7

Water year October 1979 to September 1980 YEAR MEAN 9.6 MAX 21.7 MIN -1.6

Table 14.--*Average daily soil temperature, in degrees Celsius, at station 1*--Continued

Thermocouple array a--Continued

Depth of observation 4.91 ft

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.0	13.3	7.9	3.7	1.3	0.6	2.6	7.0	11.4	14.9	18.8	18.4
2	16.9	13.1	7.7	3.6	1.2	.7	2.7	7.2	11.4	15.1	18.8	18.3
3	16.8	12.9	7.5	3.4	1.1	.7	2.8	7.4	11.5	15.2	18.9	18.3
4	16.7	12.7	7.4	3.3	1.0	.7	3.0	7.6	11.5	15.4	19.1	18.2
5	16.6	12.5	7.1	3.2	.9	.9	3.0	7.8	11.6	15.6	19.2	18.1
6	16.5	12.2	7.0	3.1	.8	.9	3.1	8.0	11.7	15.7	19.2	18.0
7	16.4	12.0	6.8	3.0	.7	.9	3.2	8.2	11.8	15.8	19.2	17.9
8	16.3	11.8	6.7	2.9	.7	1.0	3.3	8.3	11.9	16.0	19.2	17.9
9	16.2	11.6	6.6	2.8	.7	1.0	3.5	8.5	12.0	16.2	19.1	17.9
10	16.1	11.4	6.5	2.7	.6	1.1	3.5	8.7	12.1	16.3	19.2	17.8
11	16.0	11.2	6.4	2.6	.7	1.1	3.6	8.9	12.2	16.5	19.2	17.8
12	15.8	11.1	6.4	2.5	.7	1.1	3.7	9.0	12.3	16.7	19.2	17.7
13	15.7	10.9	6.3	2.3	.7	1.2	3.8	9.1	12.4	16.8	19.3	17.7
14	15.6	10.7	6.2	2.2	.7	1.2	3.9	9.2	12.6	17.0	19.3	17.7
15	15.5	10.6	6.1	2.1	.7	1.3	4.0	9.3	12.8	17.1	19.3	17.6
16	15.4	10.4	6.0	2.0	.7	1.3	4.0	9.3	12.9	17.3	19.3	17.6
17	15.3	10.2	5.8	1.9	.7	1.4	4.2	9.4	13.1	17.3	19.3	17.5
18	15.2	10.0	5.5	1.8	.6	1.4	4.3	9.5	13.2	17.5	19.2	17.5
19	15.1	9.8	5.4	1.8	.4	1.5	4.4	9.5	13.3	17.5	19.2	17.3
20	15.0	9.6	5.3	1.8	.5	1.5	4.6	9.6	13.4	17.6	19.1	17.3
21	14.9	9.4	5.1	1.7	.5	1.6	4.8	9.7	13.5	17.7	19.1	17.2
22	14.8	9.2	5.0	1.7	.5	1.6	5.0	9.8	13.6	17.4	19.0	17.2
23	14.7	9.2	4.8	1.6	.5	1.7	5.2	10.0	13.7	17.8	18.9	17.1
24	14.5	9.1	4.7	1.5	.5	1.8	5.4	10.1	13.9	17.9	18.8	17.1
25	14.3	8.9	4.5	1.6	.5	1.9	5.7	10.4	14.0	17.6	18.7	16.9
26	14.1	8.7	4.4	1.5	.5	2.0	5.9	10.6	14.1	18.2	18.7	16.8
27	14.0	8.4	4.3	1.5	.5	2.1	6.2	10.8	14.3	18.3	18.6	16.7
28	13.9	8.3	4.2	1.5	.6	2.2	6.4	10.9	14.4	18.4	18.6	16.5
29	13.7	8.2	4.1	1.5	.6	2.3	6.6	11.1	14.7	18.5	18.5	16.3
30	13.6	8.1	4.0	1.5		2.4	6.8	11.2	14.8	18.5	18.5	16.3
31	13.5		3.8	1.4		2.5		11.3		18.6	18.4	
MEAN	15.4	10.5	5.8	2.3	.7	1.4	4.3	9.3	12.9	17.0	19.0	17.5

Water year October 1979 to September 1980 YEAR MEAN 9.7 MAX 19.3 MIN 0.4

Table 14.--*Average daily soil temperature, in degrees Celsius, at station 1*--Continued

Thermocouple array a--Continued

Depth of observation 6.55 ft

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.5	14.1	9.9	6.0	3.3	2.2	3.1	5.9	9.9	12.9	16.5	17.4
2	16.5	14.0	9.7	5.9	3.3	2.2	3.1	6.1	9.9	13.0	16.6	17.4
3	16.4	13.9	9.6	5.8	3.2	2.2	3.2	6.2	10.0	13.2	16.7	17.3
4	16.4	13.7	9.4	5.7	3.1	2.2	3.3	6.4	10.1	13.3	16.8	17.3
5	16.3	13.6	9.2	5.5	3.1	2.2	3.4	6.5	10.2	13.4	16.9	17.3
6	16.2	13.5	9.2	5.5	3.0	2.2	3.4	6.7	10.3	13.6	17.0	17.2
7	16.2	13.3	9.0	5.4	2.9	2.2	3.5	6.9	10.4	13.7	17.0	17.2
8	16.2	13.1	8.8	5.3	2.8	2.3	3.6	7.0	10.4	13.8	16.2	17.1
9	16.1	13.0	8.7	5.2	2.8	2.3	3.6	7.1	10.5	13.9	17.2	17.1
10	16.0	12.9	8.6	5.1	2.7	2.2	3.7	7.3	10.7	14.0	17.2	17.1
11	15.9	12.7	8.5	4.9	2.7	2.3	3.7	7.5	10.7	14.2	17.3	17.1
12	15.9	12.6	8.4	4.9	2.6	2.3	3.8	7.6	10.8	14.3	17.3	17.0
13	15.8	12.4	8.3	4.7	2.6	2.4	4.0	7.7	10.9	14.5	17.3	17.0
14	15.7	12.2	8.1	4.6	2.6	2.4	4.0	7.9	11.0	14.6	17.4	17.0
15	15.6	12.1	8.1	4.5	2.5	2.4	4.0	8.0	11.1	14.8	17.4	16.9
16	15.6	12.0	8.0	4.4	2.5	2.4	4.1	8.1	11.3	14.9	17.5	17.0
17	15.5	11.8	7.9	4.3	2.5	2.4	4.2	8.2	11.3	15.0	17.5	16.9
18	15.4	11.7	7.6	4.2	2.4	2.5	4.2	8.3	11.5	15.2	17.5	16.9
19	15.3	11.6	7.6	4.1	2.4	2.5	4.4	8.4	11.6	15.3	17.6	16.8
20	15.3	11.4	7.5	4.0	2.4	2.5	4.4	8.4	11.7	15.3	17.6	16.8
21	15.2	11.2	7.4	3.9	2.3	2.5	4.5	8.5	11.8	16.3	17.6	16.7
22	15.1	11.0	7.2	3.9	2.3	2.6	4.6	8.6	11.9	15.0	17.6	16.7
23	15.0	10.9	7.1	3.8	2.3	2.6	4.8	8.7	12.0	15.6	17.5	16.6
24	14.9	10.8	7.0	3.7	2.3	2.6	4.9	8.8	12.1	16.2	17.5	16.6
25	14.8	10.7	6.8	3.7	2.2	2.7	5.0	8.9	12.2	15.8	17.5	16.6
26	14.7	10.5	6.7	3.7	2.2	2.7	5.2	9.1	12.3	16.8	17.5	16.5
27	14.6	10.3	6.6	3.6	2.2	2.8	5.3	9.2	12.4	16.0	17.5	16.4
28	14.5	10.1	6.5	3.5	2.2	2.8	5.5	9.3	12.5	16.1	17.5	16.4
29	14.4	10.1	6.4	3.5	2.2	2.9	5.6	9.5	12.7	16.2	17.4	16.3
30	14.3	10.0	6.3	3.5		2.9	5.8	9.6	12.8	16.3	17.4	16.3
31	14.2		6.1	3.4		3.0		9.8		16.4	17.4	
MEAN	15.5	12.0	7.9	4.5	2.6	2.5	4.2	7.9	11.2	14.8	17.2	16.9

Water year October 1979 to September 1980 YEAR MEAN 9.8 MAX 17.6 MIN 2.2

Table 14.--*Average daily soil temperature, in degrees Celsius, at station 1*--Continued

Thermocouple array b

Depth of observation 0.06 ft

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.8	.2	-4.4	-5.0	-8.4	0.3	5.3	16.0	17.8	27.2	32.0	16.9
2	12.4	.9	-4.4	-3.8	-4.7	.3	5.9	15.2	17.3	29.4	31.5	19.7
3	11.7	1.1	-2.9	-4.5	-3.4	.2	5.0	17.1	19.4	28.5	21.8	19.6
4	13.4	1.7	-1.5	-6.7	-0.6	.2	6.0	18.0	20.6	28.1	20.5	19.0
5	15.4	2.7	.1	-5.0	-0.1	.1	7.3	18.8	20.6	29.7	24.8	20.6
6	15.5	2.4	.4	-7.8	-0.6	.1	7.3	18.6	15.3	31.2	28.5	22.7
7	14.8	2.3	.4	-9.7	-0.7	.0	5.2	17.5	16.3	28.8	27.5	22.3
8	9.3	1.4	-0.1	-10.2	-3.3	.0	6.1	17.8	18.3	30.9	27.1	17.3
9	9.9	1.2	-0.4	-9.9	-3.4	.3	8.0	18.5	20.5	28.2	28.5	18.2
10	14.5	2.7	-0.8	-9.2	-3.1	.4	7.9	13.0	21.3	29.9	23.9	21.3
11	15.4	2.0	-5.0	-9.5	-5.8	.2	7.6	14.2	23.2	30.2	25.9	20.0
12	11.7	1.0	-4.2	-7.7	-4.9	.3	5.6	12.4	23.0	26.3	25.8	17.5
13	12.1	.6	-3.5	-4.8	-3.7	.2	8.1	8.7	23.5	27.4	20.6	17.9
14	14.7	.1	-4.4	-3.7	-4.2	1.3	11.0	14.2	20.6	27.0	23.4	19.9
15	15.2	.4	-6.7	-3.7	-4.5	1.3	10.1	16.5	18.4	28.5	21.0	13.5
16	11.4	-0.2	-8.0	-3.2	-5.4	1.8	10.8	16.3	19.4	28.6	20.3	15.6
17	10.8	-0.1	-5.9	-4.8	-5.3	1.8	11.9	18.7	20.9	25.6	20.5	19.7
18	10.3	1.4	-3.7	-3.2	-3.6	3.4	13.5	19.0	21.4	27.5	20.8	18.7
19	8.9	.0	-5.5	-4.3	-2.5	3.6	15.2	17.6	19.9	30.3	19.7	19.0
20	7.3	.3	-4.3	-5.6	-1.8	4.3	16.1	22.6	23.4	26.7	19.4	18.7
21	5.6	-0.3	-5.2	-4.1	-0.2	4.5	17.4	24.6	24.5	28.5	13.2	13.5
22	5.3	-1.4	-4.8	-4.6	.1	4.3	18.1	26.3	25.3	31.5	20.9	12.3
23	7.0	-1.6	-4.4	-1.5	-0.5	5.3	14.5	26.3	24.5	31.3	23.0	13.8
24	10.1	.0	-6.2	.0	-0.2	5.2	16.3	22.9	24.2	29.5	24.3	11.8
25	10.9	.1	-4.0	.0	-0.8	2.4	15.1	14.1	25.8	28.1	21.8	12.7
26	9.1	-0.9	-4.9	-4.4	.7	4.7	15.4	15.8	28.3	30.0	18.7	13.7
27	7.0	-2.0	-6.4	-9.2	3.4	4.5	16.2	17.5	26.1	29.8	19.8	15.5
28	7.6	-3.1	-6.0	-11.5	1.3	5.2	18.1	18.1	25.3	31.1	20.8	17.4
29	6.0	-4.7	-7.1	-12.6	.4	5.6	18.9	15.7	27.0	28.2	21.4	16.9
30	3.1	-4.9	-7.8	-12.8		6.4	17.8	16.2	27.0	31.5	19.4	16.4
31	.9		-7.1	-11.8		4.7		14.5		37.6	17.6	
MEAN	10.4	.1	-4.2	-6.3	-2.3	2.4	11.4	17.5	22.0	29.3	22.7	17.4

Water year October 1979 to September 1980 YEAR MEAN 10.1 MAX 37.6 MIN -12.8

Table 14.--*Average daily soil temperature, in degrees Celsius, at station 1*--Continued

Thermocouple array b--Continued

Depth of observation 0.15 ft

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.9	.7	-4.2	-5.3	-8.7	0.1	5.0	15.8	17.2	25.9	31.0	17.2
2	13.2	1.2	-4.2	-4.1	-5.2	.1	5.7	15.1	17.0	27.8	30.4	19.1
3	12.3	1.4	-3.0	-4.5	-3.9	.1	5.0	16.5	18.6	27.2	23.3	19.8
4	13.1	1.9	-1.8	-6.7	-1.1	.1	5.7	17.3	20.0	26.8	21.1	18.6
5	14.9	2.8	-0.2	-5.2	-0.5	.0	6.8	18.1	20.1	28.0	23.9	19.9
6	15.1	2.6	.0	-7.4	-0.9	.0	7.0	17.9	15.5	29.4	27.2	21.5
7	14.6	2.5	.2	-9.5	-0.8	-0.1	5.3	17.0	16.0	27.9	26.8	21.4
8	10.7	1.6	.0	-9.9	-3.2	-0.2	5.9	16.7	17.7	29.3	26.1	18.2
9	10.4	1.4	-0.3	-9.8	-3.7	.1	7.3	17.8	19.7	28.1	27.6	17.8
10	13.7	2.6	-0.5	-9.1	-3.1	.1	7.6	13.6	20.7	30.0	24.4	20.4
11	14.8	2.2	-4.3	-9.4	-5.8	.1	7.4	14.1	22.6	28.8	24.8	20.1
12	12.4	1.3	-4.3	-7.9	-5.1	.1	5.6	12.7	22.5	25.8	26.3	18.0
13	12.1	.8	-3.5	-5.1	-3.9	.1	7.5	9.1	23.0	26.6	21.5	18.0
14	13.9	.2	-4.3	-4.0	-4.3	.8	10.0	13.7	20.8	26.2	23.1	19.7
15	14.8	.5	-6.2	-4.1	-4.6	1.2	9.8	15.8	18.5	27.5	21.3	14.6
16	12.4	-0.1	-7.7	-3.3	-5.5	1.6	10.2	15.7	19.0	27.3	20.4	15.6
17	11.1	-0.1	-6.0	-4.9	-5.5	1.5	11.2	17.6	20.5	25.3	20.5	19.0
18	10.9	1.2	-4.0	-3.4	-3.9	2.9	12.5	17.9	20.7	26.3	20.7	18.2
19	9.5	.3	-5.6	-4.3	-2.9	3.3	14.1	16.8	19.8	28.4	19.9	19.1
20	8.0	.5	-4.5	-5.6	-2.1	3.8	15.0	20.5	22.6	26.4	19.7	18.1
21	6.6	.1	-5.1	-4.3	-0.5	4.0	16.0	22.3	23.9	26.8	14.6	14.7
22	5.9	-0.9	-5.0	-4.7	-0.3	4.1	17.6	24.0	24.6	30.0	20.8	12.7
23	7.2	-1.4	-4.4	-2.1	-0.7	4.7	14.1	24.5	24.0	30.6	22.7	14.1
24	9.8	-0.1	-6.1	-0.5	-0.5	4.9	15.4	21.9	23.6	30.0	23.7	12.3
25	10.6	.1	-4.3	-0.2	-1.0	2.6	14.6	14.7	24.7	27.4	21.8	13.0
26	9.5	-0.6	-4.9	-4.1	.0	4.4	14.8	15.5	26.8	28.9	19.3	13.5
27	7.4	-1.7	-6.4	-9.0	2.6	4.2	15.4	17.1	25.3	29.0	19.8	15.2
28	7.5	-2.6	-6.0	-11.3	1.1	4.9	16.9	18.0	24.3	29.7	20.6	16.5
29	6.5	-4.2	-6.9	-12.5	.2	5.2	17.7	15.8	25.4	27.5	21.2	16.6
30	3.6	-4.6	-7.8	-12.8		5.9	17.1	16.0	26.0	30.1	19.3	14.9
31	1.5		-7.3	-11.9		4.7		14.5		34.8	18.0	
MEAN	10.6	.3	-4.2	-6.4	-2.5	2.1	10.8	16.9	21.4	28.2	22.6	17.3

Water year October 1979 to September 1980 YEAR MEAN 9.8 MAX 34.8 MIN -12.8

Table 14.--*Average daily soil temperature, in degrees Celsius, at station 1*--Continued

Thermocouple array b--Continued

Depth of observation 0.32 ft

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.1	1.8	-3.8	-5.4	-9.0	.0	4.8	15.5	16.5	24.8	29.8	17.5
2	14.1	1.8	-3.8	-4.4	-5.7	.0	5.3	14.9	16.7	26.4	29.2	18.6
3	12.8	1.9	-2.9	-4.4	-4.4	-0.1	4.9	15.7	17.7	26.1	24.7	19.7
4	13.0	2.3	-2.0	-6.3	-1.9	.0	5.2	16.6	19.2	25.7	21.7	18.5
5	14.6	3.1	-0.4	-5.2	-1.0	.0	6.2	17.2	19.5	26.6	23.3	19.4
6	14.7	3.0	-0.1	-6.7	-1.3	-0.1	6.6	17.1	15.8	27.7	25.9	20.7
7	14.6	2.9	.2	-8.9	-1.0	-0.2	5.3	16.6	15.8	27.0	26.1	20.9
8	12.1	2.1	.1	-9.2	-3.0	-0.2	5.6	16.1	17.0	27.8	25.7	19.0
9	10.9	1.9	-0.2	-9.3	-3.7	.0	6.6	17.2	18.9	27.3	26.7	17.6
10	13.0	2.8	-0.3	-8.8	-3.0	.1	7.3	14.2	20.0	29.9	24.7	19.6
11	14.2	2.7	-3.2	-9.0	-5.4	.1	7.2	13.9	21.7	27.8	24.6	19.8
12	13.1	1.7	-4.2	-7.9	-5.2	.1	5.6	13.0	21.7	25.5	26.6	18.4
13	12.1	1.2	-3.2	-5.4	-3.9	.0	6.9	9.8	22.2	26.0	22.3	17.9
14	13.2	.7	-4.0	-4.3	-4.2	.6	8.9	13.2	20.7	25.5	22.8	19.2
15	14.4	.7	-5.4	-4.3	-4.5	1.0	9.4	15.0	18.7	26.6	21.7	15.9
16	13.2	.3	-7.0	-3.4	-5.2	1.3	9.5	15.3	18.6	26.2	20.7	15.6
17	11.3	.3	-5.9	-4.9	-5.5	1.4	10.3	16.6	19.9	25.2	20.5	18.2
18	11.3	1.3	-4.1	-3.5	-4.1	2.5	11.6	17.2	20.6	25.2	20.7	17.9
19	10.3	.8	-5.4	-4.1	-3.2	2.9	13.0	16.5	19.7	27.4	20.1	18.9
20	8.8	.9	-4.6	-5.3	-2.5	3.4	14.0	19.1	21.4	26.0	19.8	17.6
21	7.7	.6	-4.8	-4.5	-1.1	3.6	14.8	20.8	23.0	26.1	16.4	15.9
22	6.6	-0.3	-5.0	-4.6	-0.7	4.0	16.8	22.3	23.6	28.2	20.6	13.1
23	7.4	-1.0	-4.2	-2.7	-1.0	4.1	13.9	23.1	23.4	28.7	22.1	14.3
24	9.5	.0	-5.8	-1.0	-0.8	4.7	14.6	21.5	22.9	28.8	22.9	12.9
25	10.4	.3	-4.4	-0.4	-1.1	2.9	14.1	15.5	23.6	27.0	21.9	13.2
26	9.8	-0.2	-4.6	-3.3	-0.4	4.0	14.2	15.3	25.5	27.7	19.8	13.3
27	7.9	-1.0	-6.0	-8.0	1.6	3.9	14.7	16.7	24.7	27.8	19.7	14.8
28	7.8	-1.9	-5.9	-10.5	.9	4.6	15.9	17.7	23.6	28.4	20.3	15.8
29	7.3	-3.4	-6.5	-11.8	.1	4.8	16.8	16.0	24.0	27.0	21.0	16.4
30	4.7	-4.0	-7.4	-12.3		5.4	16.6	15.7	25.2	28.6	19.5	14.1
31	2.7		-7.1	-11.6		4.7		14.6		31.7	18.4	
MEAN	10.9	.8	-3.9	-6.2	-2.8	1.9	10.2	16.4	20.7	27.1	22.6	17.2

Water year October 1979 to September 1980 YEAR MEAN 9.6 MAX 31.7 MIN -12.3

Table 14.--*Average daily soil temperature, in degrees Celsius, at station 1*--Continued

[Dashes indicate instrument malfunction]

Thermocouple array b--Continued

Depth of observation 0.65 ft

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	-5.2	-8.7	-0.1	4.4	15.0	15.6	23.5	28.3	18.1
2	---	---	---	-4.3	-6.4	-0.1	4.9	14.6	16.3	24.6	27.8	18.3
3	---	---	---	-3.9	-5.0	-0.1	4.9	14.8	16.6	24.8	26.0	19.6
4	---	---	---	-5.0	-3.2	.0	4.8	15.5	18.0	24.4	22.7	18.5
5	---	---	---	-4.9	-2.2	-0.1	5.5	16.0	18.6	24.9	22.9	19.1
6	---	---	---	-5.1	-1.9	-0.1	6.1	16.2	16.5	25.8	24.4	19.9
7	---	---	---	-7.0	-1.5	-0.1	5.5	16.0	15.7	25.9	25.2	20.4
8	---	---	---	-7.5	-2.4	-0.1	5.2	15.4	16.3	26.1	25.0	19.9
9	---	---	---	-7.8	-3.3	-0.1	5.8	16.3	17.7	26.1	25.6	17.9
10	---	---	---	-7.6	-2.7	.1	6.8	14.8	18.8	27.6	24.9	19.1
11	---	---	---	-7.7	-4.2	.0	6.7	13.8	20.1	26.3	24.3	19.6
12	---	---	---	-7.4	-4.6	.1	5.8	13.4	20.5	25.3	25.5	18.4
13	---	---	---	-5.7	-3.7	.0	6.2	11.7	20.9	25.1	23.3	18.1
14	---	---	---	-4.6	-3.7	.4	7.6	12.6	20.4	24.8	22.6	18.8
15	---	---	---	-4.3	-4.0	.9	8.7	13.9	19.0	25.3	22.3	17.6
16	---	---	---	-3.5	-4.4	1.1	8.5	14.7	18.2	25.1	21.2	16.1
17	---	---	---	-4.2	-4.8	1.2	9.2	15.4	19.0	24.9	20.6	17.5
18	---	---	-3.8	-3.5	-4.1	1.9	10.2	16.0	19.8	24.3	20.8	17.8
19	---	---	-4.4	-3.6	-3.2	2.5	11.4	15.9	19.4	25.8	20.5	18.5
20	---	---	-4.1	-4.4	-2.8	2.8	12.4	17.1	20.0	25.4	20.1	17.6
21	---	---	-3.9	-4.3	-1.8	3.1	13.1	18.7	21.4	24.9	19.0	17.2
22	---	---	-4.3	-4.1	-1.3	3.6	14.7	20.1	22.0	25.8	20.5	14.4
23	---	---	-3.5	-3.3	-1.3	3.5	13.3	21.2	22.2	27.3	21.4	14.9
24	---	---	-4.5	-1.8	-1.1	4.3	13.5	20.8	21.8	27.4	22.1	13.9
25	---	---	-4.1	-1.0	-1.2	3.3	13.4	16.9	22.3	26.3	22.1	13.8
26	---	---	-3.8	-2.1	-0.9	3.5	13.5	15.4	23.6	26.5	20.4	13.6
27	---	---	-4.8	-5.6	.0	3.6	13.8	16.2	23.6	26.6	19.8	14.5
28	---	---	-5.0	-8.0	.5	4.1	14.5	17.2	22.7	27.0	20.1	15.3
29	---	---	-5.2	-9.5	.1	4.4	15.4	16.3	22.6	26.5	20.7	16.1
30	---	---	-5.9	-10.3		4.9	15.7	15.5	23.9	27.0	19.9	14.7
31	---		-6.1	-10.2		4.8		14.9		28.4	19.1	
MEAN	---	---	---	-5.4	-2.9	1.7	9.4	15.9	19.8	25.8	22.5	17.3

Water year October 1979 to September 1980 YEAR MEAN --- MAX 28.4 MIN -10.3

Table 14.--*Average daily soil temperature, in degrees Celsius, at station 1*--Continued

Thermocouple array b--Continued

Depth of observation 1.63 ft

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.1	8.3	1.1	-3.1	-5.6	-0.5	4.1	13.0	14.7	20.9	25.1	19.3
2	16.7	7.5	.8	-2.9	-5.3	-0.4	4.1	13.0	15.0	21.1	25.3	18.9
3	16.1	7.0	.6	-2.6	-4.7	-0.3	4.3	12.9	15.2	21.5	25.2	19.0
4	15.5	6.7	.6	-2.6	-4.1	-0.2	4.3	13.2	15.6	21.7	24.1	19.0
5	15.3	6.5	.9	-2.8	-3.4	-0.2	4.4	13.4	16.2	21.8	23.1	18.9
6	15.4	6.6	1.3	-2.7	-2.8	-0.1	4.8	13.7	16.4	22.2	23.0	19.0
7	15.4	6.4	1.5	-3.1	-2.4	-0.1	5.0	13.9	15.8	22.6	23.4	19.4
8	15.4	6.3	1.7	-3.5	-2.2	.0	4.9	13.9	15.5	22.8	23.5	19.7
9	14.6	6.0	1.8	-3.8	-2.2	.1	4.9	14.0	15.7	23.0	23.6	19.0
10	14.1	5.8	1.8	-4.1	-2.3	.1	5.3	14.1	16.3	23.0	23.8	18.8
11	14.2	5.8	1.6	-4.3	-2.3	.1	5.5	13.5	17.0	23.2	23.4	19.0
12	14.5	5.7	.8	-4.5	-2.7	.2	5.6	13.2	17.6	23.3	23.3	19.0
13	14.2	5.3	.4	-4.4	-2.7	.2	5.4	13.0	18.0	23.1	23.2	18.7
14	13.9	5.0	.2	-3.9	-2.6	.3	5.7	12.3	18.3	23.0	22.6	18.5
15	14.1	4.7	-0.1	-3.5	-2.7	.5	6.4	12.4	18.1	23.0	22.4	18.6
16	14.3	4.5	-0.7	-3.2	-2.8	.8	6.8	12.8	17.6	23.0	22.0	17.8
17	14.0	4.2	-1.3	-3.0	-3.0	.9	7.1	13.1	17.5	23.1	21.4	17.5
18	13.6	4.0	-1.4	-2.9	-3.1	1.1	7.6	13.6	17.8	22.8	21.1	17.7
19	13.3	4.0	-1.4	-2.6	-3.0	1.5	8.3	14.0	18.0	23.0	21.0	17.8
20	12.8	4.0	-1.6	-2.7	-2.7	1.8	9.1	14.2	17.9	23.3	20.7	17.8
21	12.2	3.9	-1.5	-2.8	-2.4	2.1	9.8	14.9	18.4	23.1	20.6	17.8
22	11.5	3.7	-1.6	-2.8	-2.1	2.4	10.7	15.7	18.9	23.3	20.3	17.0
23	10.9	3.3	-1.6	-2.7	-1.8	2.6	11.0	16.7	19.4	23.8	20.5	16.3
24	10.8	3.2	-1.6	-2.3	-1.6	3.0	11.0	17.3	19.5	24.1	20.8	16.0
25	11.0	3.1	-1.9	-1.8	-1.4	3.2	11.3	17.1	19.6	24.3	21.1	15.5
26	11.2	3.1	-1.8	-1.5	-1.3	2.9	11.4	15.8	20.0	24.2	20.9	15.1
27	11.1	2.8	-1.9	-1.8	-1.1	3.1	11.6	15.4	20.5	23.8	20.3	15.1
28	10.7	2.5	-2.2	-2.9	-0.8	3.3	11.9	15.6	20.5	24.4	20.1	15.2
29	10.4	2.1	-2.4	-4.0	-0.6	3.5	12.4	15.7	20.4	24.6	20.2	15.6
30	10.0	1.6	-2.6	-4.8		3.7	12.9	15.0	20.7	24.4	20.1	15.8
31	9.2		-3.0	-5.4		4.1		15.0		24.8	19.8	
MEAN	13.3	4.8	-0.4	-3.2	-2.6	1.3	7.6	14.2	17.7	23.1	22.1	17.8

Water year October 1979 to September 1980 YEAR MEAN 9.7 MAX 25.3 MIN -5.6

Table 14.--*Average daily soil temperature, in degrees Celsius, at station 1*--Continued

Thermocouple array b--Continued

Depth of observation 3.27 ft

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.5	12.0	5.4	0.8	-1.1	-0.1	3.2	9.7	13.5	17.9	21.8	19.5
2	17.4	11.6	5.1	.7	-1.2	.0	3.4	9.9	13.4	18.0	22.0	19.3
3	17.3	11.1	4.8	.6	-1.3	.1	3.5	10.1	13.4	18.2	22.1	19.1
4	17.0	10.7	4.6	.6	-1.4	.3	3.6	10.3	13.5	18.4	22.2	19.0
5	16.7	10.4	4.4	.5	-1.5	.3	3.7	10.4	13.6	18.6	22.0	18.9
6	16.5	10.1	4.3	.4	-1.4	.4	3.8	10.6	13.9	18.8	21.8	18.8
7	16.3	9.9	4.3	.4	-1.3	.5	4.0	10.8	14.2	19.0	21.6	18.8
8	16.2	9.7	4.3	.3	-1.1	.6	4.1	11.0	14.3	19.2	21.6	18.8
9	16.1	9.5	4.3	.2	-1.0	.7	4.2	11.2	14.2	19.4	21.6	18.9
10	15.9	9.3	4.3	.0	-0.9	.7	4.3	11.4	14.3	19.7	21.6	18.8
11	15.7	9.1	4.3	-0.2	-0.8	.7	4.4	11.4	14.4	19.8	21.7	18.7
12	15.5	8.9	4.2	-0.4	-0.8	.7	4.6	11.5	14.7	19.9	21.6	18.6
13	15.4	8.8	4.1	-0.6	-0.8	.8	4.7	11.4	15.0	20.1	21.6	18.6
14	15.3	8.6	3.8	-0.7	-0.7	.8	4.8	11.3	15.3	20.2	21.6	18.5
15	15.2	8.4	3.7	-0.7	-0.8	.9	4.8	11.2	15.5	20.2	21.4	18.5
16	15.1	8.1	3.5	-0.7	-0.8	1.0	5.1	11.2	15.7	20.3	21.3	18.3
17	15.1	7.9	3.2	-0.6	-0.8	1.1	5.3	11.2	15.7	20.3	21.1	18.1
18	14.9	7.6	2.8	-0.5	-0.9	1.2	5.6	11.4	15.7	20.4	20.9	17.9
19	14.8	7.5	2.7	-0.4	-0.9	1.3	5.8	11.5	15.8	20.4	20.7	17.9
20	14.6	7.3	2.5	-0.4	-0.9	1.5	6.2	11.7	15.9	20.5	20.5	17.8
21	14.4	7.1	2.3	-0.4	-1.0	1.6	6.5	11.9	15.9	20.2	20.4	17.8
22	14.1	7.0	2.1	-0.4	-0.9	1.8	7.0	12.1	16.1	20.6	20.2	17.7
23	13.8	6.9	2.0	-0.4	-0.8	2.0	7.4	12.5	16.3	21.1	20.0	17.5
24	13.5	6.7	1.9	-0.4	-0.7	2.2	7.8	12.9	16.6	20.9	20.0	17.3
25	13.2	6.6	1.8	-0.3	-0.6	2.3	8.1	13.4	16.7	21.0	20.0	17.1
26	13.0	6.3	1.7	-0.2	-0.5	2.5	8.4	13.6	16.9	21.2	20.0	16.8
27	13.0	6.1	1.6	-0.1	-0.4	2.6	8.6	13.5	17.1	21.3	20.0	16.5
28	12.9	6.0	1.5	.0	-0.3	2.7	8.8	13.5	17.4	21.4	19.9	16.3
29	12.7	5.9	1.3	-0.2	-0.2	2.8	9.1	13.5	17.6	21.5	19.7	16.2
30	12.5	5.7	1.2	-0.5		2.9	9.4	13.6	17.7	21.6	19.7	16.2
31	12.3		1.0	-0.8		3.1		13.5		21.7	19.6	
MEAN	15.0	8.4	3.2	-0.1	-0.9	1.3	5.7	11.7	15.3	20.1	21.0	18.1

Water year October 1979 to September 1980 YEAR MEAN 9.9 MAX 22.2 MIN -1.5

Table 14.--*Average daily soil temperature, in degrees Celsius, at station 1*--Continued

Thermocouple array b--Continued

Depth of observation 4.91 ft

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.3	13.6	8.2	3.9	1.6	1.0	3.0	7.3	11.5	15.1	18.9	18.6
2	17.1	13.4	8.0	3.8	1.4	1.1	3.1	7.5	11.5	15.2	19.1	18.6
3	17.1	13.2	7.8	3.6	1.3	1.1	3.2	7.7	11.6	15.4	19.1	18.5
4	17.0	13.0	7.6	3.5	1.2	1.2	3.3	7.8	11.6	15.5	19.3	18.4
5	16.9	12.7	7.4	3.4	1.1	1.2	3.4	8.0	11.7	15.7	19.4	18.4
6	16.8	12.5	7.3	3.3	1.0	1.3	3.4	8.2	11.8	15.8	19.4	18.2
7	16.7	12.3	7.1	3.2	.9	1.4	3.6	8.4	11.9	16.0	19.4	18.2
8	16.5	12.0	7.0	3.2	1.0	1.4	3.7	8.6	12.0	16.1	19.4	18.1
9	16.4	11.9	6.8	3.1	.9	1.4	3.8	8.7	12.1	16.3	19.4	18.1
10	16.3	11.7	6.8	3.0	1.0	1.5	3.8	8.9	12.2	16.5	19.4	18.1
11	16.2	11.5	6.7	2.8	1.0	1.5	3.9	9.1	12.3	16.6	19.4	17.6
12	16.1	11.3	6.6	2.7	1.0	1.5	4.0	9.2	12.5	16.8	19.5	18.0
13	16.0	11.1	6.5	2.5	1.0	1.6	4.2	9.4	12.6	17.0	19.5	18.0
14	15.9	11.0	6.4	2.4	1.0	1.6	4.2	9.5	12.7	17.1	19.5	17.9
15	15.7	10.8	6.3	2.3	1.0	1.7	4.2	9.5	12.9	17.2	19.5	17.8
16	15.6	10.6	6.2	2.1	1.0	1.7	4.4	9.5	13.1	17.4	19.5	17.9
17	15.5	10.4	6.1	2.1	1.0	1.8	4.5	9.6	13.2	17.4	19.5	17.8
18	15.4	10.2	5.8	2.0	.9	1.8	4.6	9.6	13.3	17.6	19.4	17.7
19	15.4	10.1	5.7	2.0	.9	1.8	4.7	9.7	13.4	17.7	19.4	17.6
20	15.3	9.9	5.5	2.0	.9	1.9	4.9	9.8	13.6	17.8	19.3	17.6
21	15.2	9.7	5.4	1.9	.8	2.0	5.1	9.9	13.6	17.8	19.3	17.5
22	15.1	9.5	5.2	1.9	.8	2.1	5.3	10.0	13.8	17.9	19.2	17.4
23	14.9	9.4	5.1	1.8	.8	2.2	5.5	10.1	13.9	17.6	19.1	17.4
24	14.7	9.3	4.9	1.8	.9	2.2	5.7	10.3	14.0	18.1	19.0	17.3
25	14.5	9.1	4.8	1.8	.9	2.3	5.9	10.5	14.2	18.2	18.9	17.2
26	14.4	8.9	4.7	1.8	.9	2.4	6.2	10.8	14.3	18.3	18.8	17.1
27	14.2	8.7	4.5	1.8	.9	2.5	6.4	11.0	14.5	18.4	18.9	16.9
28	14.1	8.6	4.4	1.8	1.0	2.6	6.6	11.1	14.6	18.5	18.8	16.8
29	13.9	8.5	4.3	1.8	1.0	2.7	6.8	11.2	14.8	18.6	18.7	16.6
30	13.8	8.4	4.2	1.8		2.8	7.0	11.4	14.9	18.8	18.7	16.6
31	13.7		4.0	1.7		2.9		11.4		18.9	18.7	
MEAN	15.6	10.8	6.0	2.5	1.0	1.8	4.6	9.5	13.0	17.1	19.2	17.7

Water year October 1979 to September 1980 YEAR MEAN 9.9 MAX 19.5 MIN 0.8

Table 14.--*Average daily soil temperature, in degrees Celsius, at station 1*--Continued

Thermocouple array b--Continued

Depth of observation 6.55 ft

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.6	14.3	10.2	6.4	3.7	2.6	3.4	6.1	9.8	12.9	16.4	17.4
2	16.6	14.2	10.0	6.3	3.6	2.6	3.5	6.2	9.9	13.0	16.5	17.4
3	16.5	14.1	9.9	6.2	3.6	2.6	3.5	6.3	10.0	13.1	16.6	17.4
4	16.5	13.9	9.8	6.0	3.5	2.6	3.6	6.5	10.1	13.2	16.7	17.4
5	16.5	13.8	9.6	5.9	3.4	2.6	3.7	6.6	10.2	13.3	16.8	17.3
6	16.4	13.7	9.5	5.8	3.3	2.6	3.7	6.8	10.3	13.5	16.9	17.3
7	16.4	13.5	9.3	5.7	3.2	2.7	3.8	7.0	10.3	13.6	17.0	17.2
8	16.3	13.4	9.2	5.7	3.2	2.6	3.8	7.1	10.4	13.7	17.1	17.2
9	16.2	13.3	9.0	5.6	3.1	2.7	4.0	7.2	10.5	13.8	17.1	17.2
10	16.1	13.1	8.9	5.4	3.1	2.7	4.0	7.4	10.6	13.9	17.2	17.2
11	16.1	12.9	8.8	5.3	3.0	2.7	4.0	7.5	10.7	14.1	17.3	17.1
12	16.0	12.8	8.7	5.2	3.0	2.7	4.1	7.7	10.8	14.2	17.3	17.1
13	16.0	12.7	8.6	5.1	3.0	2.8	4.2	7.8	10.9	14.4	17.3	17.1
14	15.9	12.5	8.5	5.0	3.0	2.7	4.3	7.9	11.0	14.5	17.4	17.0
15	15.8	12.4	8.4	4.9	3.0	2.8	4.3	8.0	11.1	14.6	17.4	17.0
16	15.7	12.2	8.3	4.7	2.9	2.8	4.4	8.1	11.2	14.8	17.5	17.0
17	15.6	12.1	8.2	4.6	2.9	2.8	4.4	8.2	11.3	14.9	17.5	17.0
18	15.5	11.9	8.0	4.6	2.8	2.8	4.5	8.4	11.4	15.0	17.5	16.9
19	15.5	11.8	8.0	4.5	2.8	2.8	4.6	8.4	11.5	15.1	17.5	16.9
20	15.4	11.7	7.8	4.4	2.8	2.9	4.7	8.5	11.6	15.2	17.5	16.9
21	15.3	11.5	7.7	4.3	2.7	2.9	4.8	8.5	11.7	15.4	17.6	16.8
22	15.3	11.3	7.6	4.2	2.7	2.9	4.9	8.6	11.9	15.5	17.6	16.8
23	15.2	11.2	7.5	4.2	2.7	3.0	5.0	8.6	11.9	15.5	17.6	16.8
24	15.1	11.1	7.3	4.1	2.7	3.0	5.1	8.8	12.1	16.4	17.6	16.8
25	15.0	11.0	7.2	4.1	2.7	3.0	5.2	8.9	12.2	15.7	17.5	16.7
26	14.9	10.8	7.1	4.0	2.6	3.1	5.3	9.1	12.3	15.8	17.5	16.7
27	14.8	10.6	7.0	4.0	2.6	3.2	5.5	9.2	12.4	16.3	17.5	16.6
28	14.7	10.5	6.8	3.9	2.6	3.2	5.6	9.3	12.5	16.0	17.5	16.5
29	14.6	10.5	6.7	3.7	2.6	3.2	5.7	9.5	12.6	16.1	17.4	16.4
30	14.5	10.3	6.6	3.9		3.3	5.9	9.6	12.7	16.2	17.4	16.4
31	14.4		6.5	3.8		3.3		9.7		16.4	17.4	
MEAN	15.7	12.3	8.3	4.9	3.0	2.9	4.5	8.0	11.2	14.7	17.3	17.0

Water year October 1979 to September 1980 YEAR MEAN 10.0 MAX 17.6 MIN 2.6

Table 15.--*Soil temperature, in degrees Celsius, at station 4*

DATE	TIME	SAMP-LING DEPTH (FT)	TEMPER-ATURE OF SOIL (DEG C)	DATE	TIME	SAMP-LING DEPTH (FT)	TEMPER-ATURE OF SOIL (DEG C)	DATE	TIME	SAMP-LING DEPTH (FT)	TEMPER-ATURE OF SOIL (DEG C)
NOV 1979				MAR 1980				JUN 1980			
28...	1325	0.2	-3.0	12...	1423	0.2	0.0	19...	1410	0.2	25.0
28...	1326	.3	-3.0	12...	1424	.3	.0	19...	1411	.3	22.0
28...	1327	.7	-2.0	12...	1425	.7	.0	19...	1412	.7	19.0
28...	1328	1.6	5.0	12...	1426	1.6	.0	19...	1413	1.6	18.0
28...	1329	3.3	5.0	12...	1427	3.3	1.0	19...	1414	3.3	15.0
DEC 1979				APR 1980				JUL 1980			
18...	1355	.2	-4.0	02...	1227	.2	4.0	09...	0950	.2	29.0
18...	1356	.3	-4.0	02...	1228	.3	3.0	09...	0951	.3	24.0
18...	1357	.7	-4.0	02...	1229	.7	2.0	09...	0952	.7	23.0
18...	1358	1.6	-1.0	02...	1230	1.6	3.0	09...	0953	1.6	22.0
18...	1359	3.3	3.0	02...	1231	3.3	3.0	09...	0954	3.3	18.0
JAN 1980				24...	1310	.2	21.0	30...	1545	.2	43.0
08...	1220	.2	-14.0	24...	1311	.3	17.0	30...	1546	.3	36.0
08...	1221	.3	-13.0	24...	1312	.7	13.0	30...	1547	.7	29.0
08...	1222	.7	-11.0	24...	1313	1.6	11.0	30...	1548	1.6	23.0
08...	1223	1.6	-7.0	24...	1314	3.3	8.0	30...	1549	3.3	20.0
08...	1224	3.3	-2.0	MAY 1980				AUG 1980			
30...	1150	.2	-13.0	16...	1040	.2	16.0	20...	0935	.2	18.0
30...	1151	.3	-13.0	16...	1041	.3	14.0	20...	0936	.3	18.0
30...	1152	.7	-10.0	16...	1042	.7	13.0	20...	0937	.7	19.0
30...	1153	1.6	-5.0	16...	1043	1.6	12.0	20...	0938	1.6	20.0
30...	1154	3.3	-1.0	16...	1044	3.3	10.0	20...	0939	3.3	18.0
FEB 1980				27...	1315	.2	27.0	SEP 1980			
20...	1205	.2	-3.0	27...	1316	.3	22.0	30...	1225	.2	25.0
20...	1206	.3	-3.0	27...	1317	.7	17.0	30...	1226	.3	18.0
20...	1207	.7	-3.0	27...	1318	1.6	15.0	30...	1227	.7	14.0
20...	1208	1.6	-2.0	27...	1319	3.3	13.0	30...	1228	1.6	15.0
20...	1209	3.3	.0					30...	1229	3.3	15.0

Table 16.--*Soil temperature, in degrees Celsius, at station 5*

DATE	TIME	SAMP-LING DEPTH (FT)	TEMPER-ATURE OF SOIL (DEG C)	DATE	TIME	SAMP-LING DEPTH (FT)	TEMPER-ATURE OF SOIL (DEG C)	DATE	TIME	SAMP-LING DEPTH (FT)	TEMPER-ATURE OF SOIL (DEG C)
NOV 1979				MAR 1980				JUN 1980			
29...	1445	0.1	-6.0	12...	1350	0.1	1.0	19...	1405	0.1	29.0
29...	1446	.2	-5.0	12...	1351	.2	.0	19...	1406	.2	26.0
29...	1447	.3	-5.0	12...	1352	.3	1.0	19...	1407	.3	23.0
29...	1448	.7	-3.0	12...	1353	.7	1.0	19...	1408	.7	21.0
29...	1449	1.6	.0	12...	1354	1.6	1.0	19...	1409	1.6	20.0
29...	1450	3.3	5.0	12...	1355	3.3	3.0	19...	1410	3.3	18.0
DEC 1979				APR 1980				JUL 1980			
10...	1255	.1	-1.0	02...	1225	.1	8.0	09...	0945	.1	35.0
10...	1256	.2	-2.0	02...	1226	.2	6.0	09...	0946	.2	31.0
10...	1257	.3	-3.0	02...	1227	.3	4.0	09...	0947	.3	27.0
10...	1258	.7	-3.0	02...	1228	.7	3.0	09...	0948	.7	26.0
10...	1259	1.6	.0	02...	1229	1.6	4.0	09...	0949	1.6	27.0
10...	1300	3.3	5.0	02...	1230	3.3	4.0	09...	0950	3.3	22.0
JAN 1980				24...	1350	.1	35.0	30...	1520	.1	54.0
08...	1145	.1	-16.0	24...	1351	.2	27.0	30...	1521	.2	46.0
08...	1146	.2	-15.0	24...	1352	.3	22.0	30...	1522	.3	38.0
08...	1147	.3	-14.0	24...	1353	.7	17.0	30...	1523	.7	31.0
08...	1148	.7	-12.0	24...	1354	1.6	14.0	30...	1524	1.6	27.0
08...	1149	1.6	-7.0	24...	1355	3.3	11.0	30...	1525	3.3	23.0
08...	1150	3.3	-1.0	MAY 1980				AUG 1980			
30...	1155	.1	-13.0	16...	1015	.1	25.0	20...	0915	.1	19.0
30...	1156	.2	-13.0	16...	1016	.2	20.0	20...	0916	.2	17.0
30...	1157	.3	-13.0	16...	1017	.3	16.0	20...	0917	.3	18.0
30...	1158	.7	-11.0	16...	1018	.7	15.0	20...	0918	.7	20.0
30...	1159	1.6	-5.0	16...	1019	1.6	15.0	20...	0919	1.6	23.0
30...	1200	3.3	.0	16...	1020	3.3	13.0	20...	0920	3.3	21.0
FEB 1980				27...	1305	.1	37.0	SEP 1980			
20...	1055	.1	-1.0	27...	1306	.2	31.0	30...	1210	.1	37.0
20...	1056	.2	-2.0	27...	1307	.3	26.0	30...	1211	.2	28.0
20...	1057	.3	-3.0	27...	1308	.7	19.0	30...	1212	.3	21.0
20...	1058	.7	-3.0	27...	1309	1.6	18.0	30...	1213	.7	18.0
20...	1059	1.6	-2.0	27...	1310	3.3	16.0	30...	1214	1.6	19.0
20...	1100	3.3	1.0					30...	1215	3.3	18.0

Table 17.--*Soil temperature, in degrees Celsius, at station 7*

DATE	TIME	SAMPLING DEPTH (FT)	TEMPERATURE OF SOIL (DEG C)
NOV 1979			
29...	1405	0.1	-3.0
29...	1406	.2	-4.0
29...	1407	.3	-4.0
29...	1408	.7	-3.0
29...	1409	1.6	.0
29...	1410	3.3	3.0
29...	1411	4.9	6.0
DEC 1979			
19...	1105	.1	-4.0
19...	1106	.2	-6.0
19...	1107	.3	-5.0
19...	1108	.7	-5.0
19...	1109	1.6	-2.0
19...	1110	3.3	2.0
19...	1111	4.9	5.0
JAN 1980			
08...	1412	.1	-17.0
08...	1413	.2	-15.0
08...	1414	.3	-15.0
08...	1415	.7	-16.0
08...	1416	1.6	-10.0
08...	1417	3.3	-5.0
08...	1418	4.9	-1.0
31...	1220	.1	-12.0
31...	1221	.2	-12.0
31...	1222	.3	-12.0
31...	1223	.7	-7.0
31...	1224	1.6	-2.0
31...	1225	3.3	1.0
FEB 1980			
20...	1400	.1	-3.0
20...	1401	.2	-3.0
20...	1402	.3	-3.0
20...	1403	.7	-2.0
20...	1404	1.6	-3.0
FEB 1980			
20...	1405	3.3	-1.0
20...	1406	4.9	1.0
MAR 1980			
11...	1030	.1	-2.0
11...	1031	.2	-2.0
11...	1032	.3	-2.0
11...	1033	.7	-2.0
11...	1034	1.6	-1.0
11...	1035	3.3	.0
11...	1036	4.9	1.0
APR 1980			
02...	1400	.1	2.0
02...	1401	.2	5.0
02...	1402	.3	3.0
02...	1403	.7	5.0
02...	1404	1.6	1.0
02...	1405	3.3	2.0
02...	1406	4.9	2.0
24...	1145	.1	20.0
24...	1146	.2	18.0
24...	1147	.3	14.0
24...	1148	.7	11.0
24...	1149	1.6	10.0
24...	1150	3.3	7.0
24...	1151	4.9	5.0
MAY 1980			
14...	1715	.1	19.0
14...	1716	.2	17.0
14...	1717	.3	15.0
14...	1718	.7	12.0
14...	1719	1.6	10.0
14...	1720	3.3	10.0
14...	1721	4.9	8.0
29...	1108	.1	18.0
29...	1109	.2	16.0
MAY 1980			
29...	1110	0.3	15.0
29...	1111	.7	14.0
29...	1112	1.6	15.0
29...	1113	3.3	12.0
29...	1114	4.9	10.0
JUN 1980			
19...	1020	.1	20.0
19...	1021	.2	19.0
19...	1022	.3	18.0
19...	1023	.7	18.0
19...	1024	1.6	17.0
19...	1025	3.3	15.0
19...	1026	4.9	12.0
JUL 1980			
09...	1145	.1	40.0
09...	1146	.2	35.0
09...	1147	.3	29.0
09...	1148	.7	25.0
09...	1149	1.6	23.0
09...	1150	3.3	19.0
09...	1151	4.9	15.0
30...	0955	.1	37.0
30...	0956	.2	31.0
30...	0957	.3	26.0
30...	0958	.7	24.0
30...	0959	1.6	23.0
30...	1000	3.3	20.0
30...	1001	4.9	17.0
AUG 1980			
20...	1110	.1	26.0
20...	1111	.2	23.0
20...	1112	.3	20.0
20...	1113	.7	18.0
20...	1114	1.6	19.0
20...	1115	3.3	18.0
20...	1116	4.9	17.0

Table 18.--*Soil temperature, in degrees Celsius, at station 8*

DATE	TIME	SAMPLING DEPTH (FT)	TEMPERATURE OF SOIL (DEG C)	DATE	TIME	SAMPLING DEPTH (FT)	TEMPERATURE OF SOIL (DEG C)	DATE	TIME	SAMPLING DEPTH (FT)	TEMPERATURE OF SOIL (DEG C)
OCT 1979				JAN 1980				MAY 1980			
10...	1233	0.1	26.0	30...	1443	0.7	-7.0	14...	1405	3.3	12.0
10...	1234	.2	22.0	30...	1444	1.6	-3.0	14...	1406	4.9	10.0
10...	1235	.3	18.0	30...	1445	3.3	.0	14...	1407	6.6	8.0
10...	1236	.7	13.0	30...	1446	4.9	2.0	27...	1500	.1	29.0
10...	1237	1.6	14.0	30...	1447	6.6	4.0	27...	1501	.2	27.0
10...	1238	3.3	16.0	FEB 1980				27...	1502	.3	24.0
10...	1239	4.9	16.0	21...	1655	.1	1.0	27...	1503	.7	19.0
10...	1240	6.6	15.0	21...	1656	.2	-1.0	27...	1504	1.6	15.0
NOV 1979				21...	1657	.3	-1.0	27...	1505	3.3	14.0
07...	1040	.1	6.0	21...	1658	.7	-2.0	27...	1506	4.9	11.0
07...	1041	.2	1.0	21...	1659	1.6	-2.0	27...	1507	6.6	10.0
07...	1042	.3	1.0	21...	1700	3.3	.0	JUN 1980			
07...	1043	.7	2.0	21...	1701	4.9	2.0	18...	1335	.1	31.0
07...	1044	1.6	7.0	21...	1702	6.6	4.0	18...	1336	.2	29.0
07...	1045	3.3	10.0	MAR 1980				18...	1337	.3	26.0
07...	1046	4.9	12.0	11...	1325	.1	.0	18...	1338	.7	21.0
07...	1047	6.6	13.0	11...	1326	.2	.0	18...	1339	1.6	18.0
28...	1150	.1	-3.0	11...	1327	.3	.0	18...	1340	3.3	16.0
28...	1151	.2	-3.0	11...	1328	.7	.0	18...	1341	4.9	14.0
28...	1152	.3	-2.0	11...	1329	1.6	1.0	18...	1342	6.6	12.0
28...	1153	.7	-1.0	11...	1330	3.3	2.0	JUL 1980			
28...	1154	1.6	1.0	11...	1331	4.9	3.0	08...	1410	.1	45.0
28...	1155	3.3	4.0	11...	1332	6.6	5.0	08...	1411	.2	42.0
28...	1156	4.9	7.0	APR 1980				08...	1412	.3	36.0
28...	1157	6.6	9.0	03...	1435	.1	7.0	08...	1413	.7	29.0
DEC 1979				03...	1436	.2	6.0	08...	1414	1.6	24.0
19...	1330	.1	-1.0	03...	1437	.3	5.0	08...	1415	3.3	20.0
19...	1331	.2	-2.0	03...	1438	.7	3.0	08...	1416	4.9	16.0
19...	1332	.3	-2.0	03...	1439	1.6	3.0	08...	1417	6.6	14.0
19...	1333	.7	-2.0	03...	1440	3.3	3.0	29...	1300	.1	44.0
19...	1334	1.6	1.0	03...	1441	4.9	4.0	29...	1301	.2	38.0
19...	1335	3.3	4.0	03...	1442	6.6	4.0	29...	1302	.3	33.0
19...	1336	4.9	7.0	23...	1120	.1	26.0	29...	1303	.7	28.0
19...	1337	6.6	8.0	23...	1121	.2	22.0	29...	1304	1.6	26.0
JAN 1980				23...	1122	.3	18.0	29...	1305	3.3	22.0
09...	1102	.1	-12.0	23...	1123	.7	14.0	29...	1306	4.9	19.0
09...	1103	.2	-12.0	23...	1124	1.6	12.0	29...	1307	6.6	16.0
09...	1104	.3	-12.0	23...	1125	3.3	9.0	AUG 1980			
09...	1105	.7	-10.0	23...	1126	4.9	7.0	20...	1435	.1	31.0
09...	1106	1.6	-6.0	23...	1127	6.6	6.0	20...	1436	.2	30.0
09...	1107	3.3	-1.0	MAY 1980				20...	1437	.3	26.0
09...	1108	4.9	2.0	14...	1400	.1	25.0	20...	1438	.7	22.0
09...	1109	6.6	4.0	14...	1401	.2	21.0	20...	1439	1.6	21.0
30...	1440	.1	-8.0	14...	1402	.3	17.0	20...	1440	3.3	20.0
30...	1441	.2	-8.0	14...	1403	.7	13.0	20...	1441	4.9	18.0
30...	1442	.3	-8.0	14...	1404	1.6	12.0	20...	1442	6.6	16.0

Table 19.--*Soil temperature, in degrees Celsius, at station 9*

DATE	TIME	SAMP-LING DEPTH (FT)	TEMPER-ATURE OF SOIL (DEG C)	DATE	TIME	SAMP-LING DEPTH (FT)	TEMPER-ATURE OF SOIL (DEG C)	DATE	TIME	SAMP-LING DEPTH (FT)	TEMPER-ATURE OF SOIL (DEG C)
NOV 1979				FEB 1980				MAY 1980			
29...	1050	0.1	-3.0	21...	1544	1.6	0.0	28...	1036	0.2	19.0
29...	1051	.2	-2.0	21...	1545	3.3	1.0	28...	1037	.3	17.0
29...	1052	.3	-2.0	21...	1546	4.9	2.0	28...	1038	.7	16.0
29...	1053	.7	-1.0	MAR 1980				28...	1039	1.6	16.0
29...	1054	1.6	2.0	12...	1230	.1	-1.0	28...	1040	3.3	13.0
29...	1055	3.3	4.0	12...	1231	.2	-1.0	28...	1041	4.9	11.0
29...	1056	4.9	6.0	12...	1232	.3	-1.0	JUN 1980			
DEC 1979				12...	1233	.7	-1.0	18...	1100	.1	27.0
19...	1620	.1	-6.0	12...	1234	1.6	-1.0	18...	1101	.2	23.0
19...	1621	.2	-4.0	12...	1235	3.3	.0	18...	1102	.3	20.0
19...	1622	.3	-4.0	12...	1236	4.9	1.0	18...	1103	.7	19.0
19...	1623	.7	-3.0	APR 1980				18...	1104	1.6	18.0
19...	1624	1.6	.0	03...	1314	.1	3.0	18...	1105	3.3	15.0
19...	1625	3.3	3.0	03...	1315	.2	2.0	18...	1106	4.9	12.0
19...	1626	4.9	5.0	03...	1316	.3	1.0	JUL 1980			
JAN 1980				03...	1317	.7	1.0	08...	1230	.1	37.0
09...	1330	.1	-16.0	03...	1318	1.6	1.0	08...	1231	.2	31.0
09...	1331	.2	-15.0	03...	1319	3.3	1.0	08...	1232	.3	27.0
09...	1332	.3	-14.0	03...	1320	4.9	1.0	08...	1233	.7	24.0
09...	1333	.7	-12.0	23...	1125	.1	19.0	08...	1234	1.6	22.0
09...	1334	1.6	-6.0	23...	1126	.2	15.0	08...	1235	3.3	18.0
09...	1335	3.3	-2.0	23...	1127	.3	13.0	08...	1236	4.9	15.0
09...	1336	4.9	1.0	23...	1128	.7	11.0	29...	1020	.1	33.0
31...	1700	.1	-10.0	23...	1129	1.6	10.0	29...	1021	.2	30.0
31...	1701	.2	-10.0	23...	1130	3.3	7.0	29...	1022	.3	27.0
31...	1702	.3	-10.0	23...	1131	4.9	5.0	29...	1023	.7	25.0
31...	1703	.7	-9.0	MAY 1980				29...	1024	1.6	24.0
31...	1704	1.6	-4.0	14...	1154	.1	17.0	29...	1025	3.3	21.0
31...	1705	3.3	-1.0	14...	1155	.2	14.0	29...	1026	4.9	18.0
31...	1706	4.9	1.0	14...	1156	.3	12.0	AUG 1980			
FEB 1980				14...	1157	.7	10.0	21...	1330	.1	34.0
21...	1540	.1	.0	14...	1158	1.6	11.0	21...	1331	.2	29.0
21...	1541	.2	.0	14...	1159	3.3	10.0	21...	1332	.3	23.0
21...	1542	.3	-1.0	14...	1200	4.9	8.0	21...	1333	.7	20.0
21...	1543	.7	-1.0	28...	1035	.1	23.0	21...	1334	1.6	20.0
								21...	1335	3.3	19.0
								21...	1336	4.9	18.0

Table 20.--*Soil temperature, in degrees Celsius, at station 10*

DATE	TIME	SAMPLING DEPTH (FT)	TEMPERATURE OF SOIL (DEG C)
NOV 1979			
29...	1215	0.1	-4.0
29...	1216	.2	-3.0
29...	1217	.3	-3.0
29...	1218	.7	-2.0
29...	1219	1.6	1.0
29...	1220	3.3	5.0
29...	1221	4.9	7.0
DEC 1979			
19...	1400	.1	4.0
19...	1401	.2	2.0
19...	1402	.3	1.0
19...	1403	.7	1.0
19...	1404	1.6	2.0
19...	1405	3.3	4.0
19...	1406	4.9	7.0
JAN 1980			
09...	1237	.1	-14.0
09...	1238	.2	-13.0
09...	1239	.3	-13.0
09...	1240	.7	-11.0
09...	1241	1.6	-6.0
09...	1242	3.3	-2.0
09...	1243	4.9	1.0
31...	1610	.1	-6.0
31...	1611	.2	-6.0
31...	1612	.3	-6.0
31...	1613	.7	-6.0
31...	1614	1.6	-2.0
31...	1615	3.3	1.0
31...	1616	4.9	3.0
FEB 1980			
21...	1442	.1	-1.0
21...	1443	.2	-1.0
21...	1444	.3	-1.0
21...	1445	.7	-1.0
21...	1446	1.6	-1.0
FEB 1980			
21...	1447	3.3	0.0
21...	1448	4.9	2.0
MAR 1980			
13...	1025	.1	-1.0
13...	1026	.2	-1.0
13...	1027	.3	-1.0
13...	1028	.7	-1.0
13...	1029	1.6	.0
13...	1030	3.3	1.0
13...	1031	4.9	2.0
APR 1980			
03...	1314	.1	4.0
03...	1315	.2	3.0
03...	1316	.3	2.0
03...	1317	.7	1.0
03...	1318	1.6	2.0
03...	1319	3.3	2.0
03...	1320	4.9	2.0
23...	1015	.1	21.0
23...	1016	.2	17.0
23...	1017	.3	14.0
23...	1018	.7	13.0
23...	1019	1.6	12.0
23...	1020	3.3	8.0
23...	1021	4.9	6.0
MAY 1980			
14...	1040	.1	23.0
14...	1041	.2	19.0
14...	1042	.3	14.0
14...	1043	.7	10.0
14...	1044	1.6	12.0
14...	1045	3.3	11.0
14...	1046	4.9	9.0
28...	1000	.1	30.0
28...	1001	.2	23.0
MAY 1980			
28...	1002	0.3	18.0
28...	1003	.7	15.0
28...	1004	1.6	15.0
28...	1005	3.3	13.0
28...	1006	4.9	11.0
JUN 1980			
18...	1025	.1	31.0
18...	1026	.2	26.0
18...	1027	.3	21.0
18...	1028	.7	19.0
18...	1029	1.6	18.0
18...	1030	3.3	15.0
18...	1031	4.9	12.0
JUL 1980			
08...	1200	.1	34.0
08...	1201	.2	36.0
08...	1202	.3	28.0
08...	1203	.7	25.0
08...	1204	1.6	23.0
08...	1205	3.3	19.0
08...	1206	4.9	17.0
29...	1050	.1	40.0
29...	1051	.2	33.0
29...	1052	.3	28.0
29...	1053	.7	25.0
29...	1054	1.6	24.0
29...	1055	3.3	21.0
29...	1056	4.9	18.0
AUG 1980			
20...	1315	.1	39.0
20...	1316	.2	32.0
20...	1317	.3	26.0
20...	1318	.7	20.0
20...	1319	1.6	20.0
20...	1320	3.3	19.0
20...	1321	4.9	18.0

Table 21.--*Soil temperature, in degrees Celsius, at station 15*

DATE	TIME	SAMP-LING DEPTH (FT)	TEMPER-ATURE OF SOIL (DEG C)
NOV 1979			
29...	1410	0.1	-2.0
29...	1411	.2	-2.0
29...	1412	.3	-2.0
29...	1413	.7	-1.0
29...	1414	1.6	3.0
29...	1415	3.3	7.0
29...	1416	4.9	9.0
29...	1417	6.6	10.0
DEC 1979			
19...	1200	.1	-2.0
19...	1201	.2	-3.0
19...	1202	.3	-3.0
19...	1203	.7	-2.0
19...	1204	1.6	1.0
19...	1205	3.3	6.0
19...	1206	4.9	8.0
19...	1207	6.6	9.0
JAN 1980			
08...	1450	.1	-14.0
08...	1451	.2	-13.0
08...	1452	.3	-10.0
08...	1453	.7	-9.0
08...	1454	1.6	-6.0
08...	1455	3.3	-1.0
08...	1456	4.9	3.0
08...	1457	6.6	3.0
31...	1235	.1	-8.0
31...	1236	.2	-8.0
31...	1237	.3	-8.0
31...	1238	.7	-7.0
31...	1239	1.6	-2.0
31...	1240	3.3	2.0
31...	1241	4.9	4.0
31...	1242	6.6	6.0
FEB 1980			
20...	1435	.1	-1.0
20...	1436	.2	-2.0
20...	1437	.3	-2.0
20...	1438	.7	-2.0
20...	1439	1.6	-1.0
FEB 1980			
20...	1440	3.3	1.0
20...	1441	4.9	3.0
20...	1442	6.6	4.0
MAR 1980			
11...	1120	.1	1.0
11...	1121	.2	.0
11...	1122	.3	.0
11...	1123	.7	.0
11...	1124	1.6	1.0
11...	1125	3.3	2.0
11...	1126	4.9	3.0
11...	1127	6.6	4.0
APR 1980			
02...	1435	.1	7.0
02...	1436	.2	6.0
02...	1437	.3	5.0
02...	1438	.7	4.0
02...	1439	1.6	4.0
02...	1440	3.3	4.0
02...	1441	4.9	4.0
02...	1442	6.6	5.0
23...	1245	.1	31.0
23...	1246	.2	23.0
23...	1247	.3	18.0
23...	1248	.7	14.0
23...	1249	1.6	12.0
23...	1250	3.3	8.0
23...	1251	4.9	7.0
23...	1252	6.6	7.0
MAY 1980			
14...	1735	.1	20.0
14...	1736	.2	19.0
14...	1737	.3	17.0
14...	1738	.7	14.0
14...	1739	1.6	12.0
14...	1740	3.3	11.0
14...	1741	4.9	9.0
14...	1742	6.6	8.0
29...	1015	.1	19.0
29...	1016	.2	17.0
MAY 1980			
29...	1017	0.3	16.0
29...	1018	.7	16.0
29...	1019	1.6	16.0
29...	1020	3.3	13.0
29...	1021	4.9	12.0
29...	1022	6.6	10.0
JUN 1980			
19...	1055	.1	22.0
19...	1056	.2	21.0
19...	1057	.3	20.0
19...	1058	.7	19.0
19...	1059	1.6	19.0
19...	1100	3.3	14.0
19...	1101	4.9	13.0
19...	1102	6.6	12.0
JUL 1980			
09...	1155	.1	40.0
09...	1156	.2	34.0
09...	1157	.3	29.0
09...	1158	.7	26.0
09...	1159	1.6	24.0
09...	1200	3.3	19.0
09...	1201	4.9	16.0
09...	1202	6.6	14.0
30...	1010	.1	36.0
30...	1011	.2	31.0
30...	1012	.3	27.0
30...	1013	.7	25.0
30...	1014	1.6	25.0
30...	1015	3.3	21.0
30...	1016	4.9	18.0
30...	1017	6.6	16.0
AUG 1980			
20...	1115	.1	29.0
20...	1116	.2	24.0
20...	1117	.3	21.0
20...	1118	.7	20.0
20...	1119	1.6	21.0
20...	1120	3.3	19.0
20...	1121	4.9	18.0
20...	1122	6.6	17.0

Table 22.--*Soil temperature, in degrees Celsius, at station 16*

DATE	TIME	SAMP-LING DEPTH (FT)	TEMPER-ATURE OF SOIL (DEG C)	DATE	TIME	SAMP-LING DEPTH (FT)	TEMPER-ATURE OF SOIL (DEG C)	DATE	TIME	SAMP-LING DEPTH (FT)	TEMPER-ATURE OF SOIL (DEG C)
OCT 1979				FEB 1980				MAY 1980			
10...	0945	0.1	26.0	20...	1330	0.1	-1.0	29...	1045	0.1	20.0
10...	0946	.2	18.0	20...	1331	.2	-2.0	29...	1046	.2	17.0
10...	0947	.3	12.0	20...	1332	.3	-2.0	29...	1047	.3	16.0
10...	0948	.7	11.0	20...	1333	.7	-3.0	29...	1048	.7	15.0
10...	0949	1.6	14.0	20...	1334	1.6	-2.0	29...	1049	1.6	16.0
10...	0950	3.3	15.0	20...	1335	3.3	1.0	29...	1050	3.3	13.0
10...	0951	4.9	15.0	20...	1336	4.9	1.0	29...	1051	4.9	10.0
NOV 1979				MAR 1980				JUN 1980			
29...	1400	.1	-3.0	11...	1047	.1	-1.0	19...	0945	.1	22.0
29...	1401	.2	-3.0	11...	1048	.2	-1.0	19...	0946	.2	20.0
29...	1402	.3	-3.0	11...	1049	.3	-1.0	19...	0947	.3	19.0
29...	1403	.7	-2.0	11...	1050	.7	-1.0	19...	0948	.7	19.0
29...	1404	1.6	2.0	11...	1051	1.6	.0	19...	0949	1.6	18.0
29...	1405	3.3	6.0	11...	1052	3.3	2.0	19...	0950	3.3	15.0
29...	1406	4.9	8.0	11...	1053	4.9	3.0	19...	0951	4.9	12.0
DEC 1979				APR 1980				JUL 1980			
19...	1100	.1	-6.0	02...	1405	.1	10.0	09...	1120	.1	42.0
19...	1101	.2	-5.0	02...	1406	.2	8.0	09...	1121	.2	34.0
19...	1102	.3	-5.0	02...	1407	.3	6.0	09...	1122	.3	28.0
19...	1103	.7	-4.0	02...	1408	.7	4.0	09...	1123	.7	25.0
19...	1104	1.6	-1.0	02...	1409	1.6	4.0	09...	1124	1.6	23.0
19...	1105	3.3	4.0	02...	1410	3.3	4.0	09...	1125	3.3	18.0
19...	1106	4.9	6.0	02...	1411	4.9	4.0	09...	1126	4.9	15.0
JAN 1980				24...	1140	.1	28.0	30...	0930	.1	40.0
08...	1352	.1	-15.0	24...	1141	.2	19.0	30...	0931	.2	30.0
08...	1353	.2	-14.0	24...	1142	.3	14.0	30...	0932	.3	25.0
08...	1354	.3	-13.0	24...	1143	.7	12.0	30...	0933	.7	24.0
08...	1355	.7	-12.0	24...	1144	1.6	11.0	30...	0934	1.6	24.0
08...	1356	1.6	-6.0	24...	1145	3.3	7.0	30...	0935	3.3	20.0
08...	1357	3.3	.0	24...	1146	4.9	6.0	30...	0936	4.9	17.0
08...	1358	4.9	2.0	MAY 1980				AUG 1980			
30...	1330	.1	-10.0	14...	1700	.1	23.0	20...	1045	.1	32.0
30...	1331	.2	-10.0	14...	1701	.2	22.0	20...	1046	.2	23.0
30...	1332	.3	-10.0	14...	1702	.3	19.0	20...	1047	.3	19.0
30...	1333	.7	-9.0	14...	1703	.7	14.0	20...	1048	.7	19.0
30...	1334	1.6	-3.0	14...	1704	1.6	12.0	20...	1049	1.6	20.0
30...	1335	3.3	-1.0	14...	1705	3.3	11.0	20...	1050	3.3	18.0
30...	1336	4.9	4.0	14...	1706	4.9	9.0	20...	1051	4.9	17.0

Table 23.--*Soil temperature, in degrees Celsius, at station 19*

DATE	TIME	SAMP-LING DEPTH (FT)	TEMPER-ATURE OF SOIL (DEG C)	DATE	TIME	SAMP-LING DEPTH (FT)	TEMPER-ATURE OF SOIL (DEG C)	DATE	TIME	SAMP-LING DEPTH (FT)	TEMPER-ATURE OF SOIL (DEG C)
NOV 1979				FEB 1980				MAY 1980			
29...	1300	0.1	-1.0	21...	1532	0.3	-1.0	28...	1016	0.2	23.0
29...	1301	.2	-1.0	21...	1533	1.6	.0	28...	1017	.3	18.0
29...	1302	.3	.0	MAR 1980				28...	1018	1.6	15.0
29...	1303	.7	.0	13...	0852	.1	.0	JUN 1980			
29...	1304	1.6	4.0	13...	0853	.2	.0	18...	1030	.1	31.0
DEC 1979				13...	0854	.3	.0	18...	1031	.2	26.0
19...	1610	.1	-3.0	13...	0855	1.6	1.0	18...	1032	.3	21.0
19...	1611	.2	-2.0	APR 1980				18...	1033	1.6	18.0
19...	1612	.3	-2.0	03...	1314	.1	4.0	JUL 1980			
19...	1613	1.6	1.0	03...	1315	.2	3.0	08...	1230	.1	41.0
JAN 1980				03...	1316	.3	2.0	08...	1231	.2	33.0
09...	1255	.1	-13.0	03...	1317	1.6	2.0	08...	1232	.3	27.0
09...	1256	.2	-12.0	23...	1050	.1	22.0	08...	1233	1.6	22.0
09...	1257	.3	-12.0	23...	1051	.2	16.0	29...	1015	.1	38.0
09...	1258	1.6	-4.0	23...	1052	.3	13.0	29...	1016	.2	32.0
31...	1620	.1	-4.0	23...	1053	1.6	10.0	29...	1017	.3	27.0
31...	1621	.2	-5.0	MAY 1980				29...	1018	1.6	23.0
31...	1622	.3	-4.0	14...	1145	.1	21.0	AUG 1980			
31...	1623	1.6	.0	14...	1146	.2	18.0	21...	1320	.1	34.0
FEB 1980				14...	1147	.3	14.0	21...	1321	.2	29.0
21...	1530	.1	.0	14...	1148	1.6	12.0	21...	1322	.3	23.0
21...	1531	.2	-1.0	28...	1015	.1	29.0	21...	1323	1.6	20.0

Table 24.--*Soil temperature, in degrees Celsius, at station 20*

DATE	TIME	SAMP-LING DEPTH (FT)	TEMPER-ATURE OF SOIL (DEG C)	DATE	TIME	SAMP-LING DEPTH (FT)	TEMPER-ATURE OF SOIL (DEG C)	DATE	TIME	SAMP-LING DEPTH (FT)	TEMPER-ATURE OF SOIL (DEG C)
JAN 1980				APR 1980				JUN 1980			
09...	1420	0.1	-10.0	03...	1550	3.3	3.0	18...	1352	0.3	26.0
09...	1421	.2	-10.0	03...	1551	4.9	3.0	18...	1353	.7	21.0
09...	1422	.3	-10.0	03...	1552	6.6	3.0	18...	1354	1.6	18.0
09...	1423	.7	-9.0	24...	1530	.1	14.0	18...	1355	3.3	15.0
09...	1424	1.6	-4.0	24...	1531	.2	19.0	18...	1356	4.9	12.0
09...	1425	3.3	1.0	24...	1532	.3	18.0	18...	1357	6.6	11.0
09...	1426	4.9	4.0	24...	1533	.7	14.0	JUL 1980			
09...	1427	6.6	5.0	24...	1534	1.6	11.0	09...	1230	.1	40.0
31...	1310	.1	-9.0	24...	1535	3.3	7.0	09...	1231	.2	35.0
31...	1311	.2	-10.0	24...	1536	4.9	5.0	09...	1232	.3	29.0
31...	1312	.3	-10.0	24...	1537	6.6	5.0	09...	1233	.7	25.0
31...	1313	.7	-8.0	MAY 1980				09...	1234	1.6	23.0
31...	1314	1.6	-4.0	14...	1615	.1	30.0	09...	1235	3.3	19.0
31...	1315	3.3	.0	14...	1616	.2	24.0	09...	1236	4.9	16.0
31...	1316	4.9	3.0	14...	1617	.3	19.0	09...	1237	6.6	13.0
31...	1317	6.6	9.0	14...	1618	.7	13.0	29...	1325	.1	46.0
MAR 1980				14...	1619	1.6	12.0	29...	1326	.2	38.0
11...	1210	.1	.0	14...	1620	3.3	11.0	29...	1327	.3	31.0
11...	1211	.2	.0	14...	1621	4.9	9.0	29...	1328	.7	26.0
11...	1212	.3	.0	14...	1622	6.6	8.0	29...	1329	1.6	24.0
11...	1213	.7	.0	28...	1400	.1	32.0	29...	1330	3.3	21.0
11...	1214	1.6	.0	28...	1401	.2	29.0	29...	1331	4.9	18.0
11...	1215	3.3	1.0	28...	1402	.3	25.0	29...	1332	6.6	15.0
11...	1216	4.9	2.0	28...	1403	.7	19.0	AUG 1980			
11...	1217	6.6	4.0	28...	1404	1.6	16.0	20...	1230	.1	27.0
APR 1980				28...	1405	3.3	13.0	20...	1231	.2	24.0
03...	1545	.1	8.0	28...	1406	4.9	11.0	20...	1232	.3	21.0
03...	1546	.2	7.0	28...	1407	6.6	9.0	20...	1233	.7	20.0
03...	1547	.3	6.0	JUN 1980				20...	1234	1.6	19.0
03...	1548	.7	3.0	18...	1350	.1	29.0	20...	1235	3.3	19.0
03...	1549	1.6	3.0	18...	1351	.2	28.0	20...	1236	4.9	18.0
								20...	1237	6.6	16.0

Table 25.--*Average soil moisture, in percent of total volume, at station 1*

DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME	DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME	DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME
SEP 1978			DEC 1978			FEB 1979		
27...	0.5	14.8	12...	3.0	16.3	08...	6.5	15.6
27...	1.0	16.4	12...	3.5	16.5	08...	7.0	15.1
27...	1.5	16.8	12...	4.0	16.1	08...	7.5	16.6
27...	2.0	16.1	12...	4.5	15.6	20...	0.5	18.7
27...	2.5	16.5	12...	5.0	15.4	20...	1.0	17.5
27...	3.0	17.1	12...	5.5	14.7	20...	1.5	16.6
27...	3.5	17.5	12...	6.0	15.1	20...	2.0	16.0
27...	4.0	17.0	12...	6.5	15.3	20...	2.5	16.0
27...	4.5	16.5	12...	7.0	15.0	20...	3.0	16.4
27...	5.0	15.6	12...	7.5	13.8	20...	3.5	17.1
27...	5.5	15.1	JAN 1979			20...	4.0	16.8
27...	6.0	15.9	11...	0.5	17.5	20...	4.5	16.2
27...	6.5	16.0	11...	1.0	16.4	20...	5.0	15.7
27...	7.0	15.1	11...	1.5	16.3	20...	5.5	14.9
27...	7.5	14.4	11...	2.0	15.6	20...	6.0	15.6
NOV 1978			11...	2.5	15.6	20...	6.5	15.7
02...	0.5	14.1	11...	3.0	16.5	20...	7.0	15.2
02...	1.0	15.6	11...	3.5	16.8	20...	7.5	14.5
02...	1.5	16.4	11...	4.5	15.9	MAR 1979		
02...	2.0	16.2	11...	5.5	14.8	15...	0.5	20.1
02...	2.5	15.9	11...	6.0	15.4	15...	1.0	18.9
02...	3.0	16.7	11...	6.5	15.4	15...	1.5	18.6
02...	3.5	17.5	11...	7.0	14.6	15...	2.0	17.7
02...	4.0	16.8	11...	7.5	13.8	15...	2.5	17.9
02...	4.5	16.4	30...	0.5	17.2	15...	3.0	18.4
02...	5.0	15.6	30...	1.0	16.7	15...	3.5	18.6
02...	5.5	15.0	30...	1.5	16.2	15...	4.0	18.6
02...	6.0	15.6	30...	2.0	15.4	15...	4.5	18.1
02...	6.5	15.7	30...	2.5	15.7	15...	5.0	17.5
02...	7.0	15.0	30...	3.0	16.3	15...	5.5	17.4
02...	7.5	14.3	30...	3.5	16.8	15...	6.0	18.1
16...	0.5	17.2	30...	4.0	16.2	15...	6.5	17.9
16...	1.0	16.3	30...	4.5	15.9	15...	7.0	16.8
16...	1.5	16.5	30...	5.0	15.0	15...	7.5	16.1
16...	2.0	15.9	30...	5.5	14.7	26...	0.5	24.9
16...	2.5	15.9	30...	6.0	15.3	26...	1.0	24.4
16...	3.0	16.8	30...	6.5	15.4	26...	1.5	21.9
16...	3.5	17.2	30...	7.0	14.6	26...	2.0	20.1
16...	4.0	16.8	30...	7.5	13.8	26...	3.0	17.3
16...	4.5	16.2	FEB 1979			26...	4.0	17.7
16...	5.0	15.7	08...	0.5	17.7	26...	4.5	17.4
16...	5.5	15.3	08...	1.0	16.7	26...	5.0	17.1
16...	6.0	15.6	08...	1.5	16.5	26...	5.5	16.3
16...	6.5	15.9	08...	2.0	15.8	26...	6.0	17.1
16...	7.0	15.0	08...	2.5	15.8	26...	6.5	17.1
16...	7.5	14.7	08...	3.0	16.2	26...	7.0	16.7
DEC 1978			08...	3.5	17.0	26...	7.5	16.2
12...	0.5	17.4	08...	4.0	15.9	APR 1979		
12...	1.0	16.2	08...	4.5	15.4	05...	0.5	23.1
12...	1.5	16.2	08...	5.0	15.5	05...	1.0	20.8
12...	2.0	15.6	08...	5.5	14.7	05...	2.0	18.7
12...	2.5	15.9	08...	6.0	15.3	05...	2.5	18.6

Table 25.--*Average soil moisture, in percent of total volume, at station 1*--Continued

DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME	DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME	DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME
APR 1979			MAY 1979			JUL 1979		
05...	3.0	18.6	17...	6.0	16.3	10...	1.0	16.1
05...	3.5	18.6	17...	6.5	16.8	10...	1.5	16.3
05...	4.0	18.3	17...	7.0	16.3	10...	2.0	15.9
05...	4.5	17.4	17...	7.5	15.5	10...	2.5	16.0
05...	5.0	16.5	22...	0.5	17.4	10...	3.0	16.1
05...	5.5	16.5	22...	1.0	23.2	10...	3.5	17.1
05...	6.0	16.5	22...	1.5	22.7	10...	4.0	16.8
05...	6.5	17.2	22...	2.0	17.4	10...	4.5	16.8
05...	7.0	17.1	22...	2.5	17.7	10...	5.0	16.5
05...	7.5	15.7	22...	3.0	17.2	10...	5.5	15.7
26...	0.5	23.7	22...	3.5	17.7	10...	6.0	16.2
26...	1.0	24.0	22...	4.0	17.5	10...	6.5	16.2
26...	1.5	22.3	22...	4.5	17.3	10...	7.0	15.6
26...	2.0	19.5	22...	5.0	16.8	10...	7.5	15.0
26...	2.5	17.7	22...	5.5	16.0	25...	0.5	13.6
26...	3.0	17.0	22...	6.0	16.8	25...	1.0	15.8
26...	3.5	17.7	22...	6.5	17.1	25...	1.5	15.9
26...	4.0	17.1	22...	7.0	16.4	25...	2.0	15.7
26...	4.5	17.1	22...	7.5	15.6	25...	2.5	15.9
26...	5.0	16.7	JUN 1979			25...	3.0	16.6
26...	5.5	15.6	07...	0.5	16.2	25...	3.5	16.8
26...	6.0	16.8	07...	1.0	18.3	25...	4.0	16.8
26...	6.5	16.5	07...	1.5	18.8	25...	4.5	16.8
26...	7.0	16.5	07...	2.0	17.6	25...	5.0	15.9
26...	7.5	15.6	07...	2.5	17.1	25...	5.5	16.1
MAY 1979			07...	3.0	16.8	25...	6.0	16.7
11...	0.5	21.8	07...	3.5	17.4	25...	6.5	16.4
11...	1.0	23.9	07...	4.0	17.0	25...	7.0	15.6
11...	1.5	22.2	07...	4.5	16.8	25...	7.5	14.8
11...	2.0	19.8	07...	5.0	16.4	AUG 1979		
11...	2.5	18.1	07...	5.5	15.6	22...	0.5	12.8
11...	3.0	17.7	07...	6.0	16.8	22...	1.0	15.7
11...	3.5	18.4	07...	6.5	16.5	22...	1.5	15.9
11...	4.0	18.2	07...	7.0	15.9	22...	2.0	15.5
11...	4.5	17.7	07...	7.5	15.2	22...	2.5	15.4
11...	5.0	17.4	29...	0.5	15.0	22...	3.0	15.9
11...	5.5	16.8	29...	1.0	17.6	22...	3.5	16.7
11...	6.0	17.4	29...	1.5	17.9	OCT 1979		
11...	6.5	17.1	29...	2.0	16.9	24...	0.5	14.4
11...	7.0	17.0	29...	2.5	16.7	24...	1.0	15.6
11...	7.5	16.2	29...	3.0	16.5	24...	1.5	15.5
17...	0.5	19.6	29...	3.5	16.5	24...	2.0	14.9
17...	1.0	22.0	29...	4.0	16.6	24...	2.5	15.3
17...	1.5	21.0	29...	4.5	16.3	24...	3.0	16.0
17...	2.0	17.5	29...	5.0	15.7	24...	3.5	16.4
17...	2.5	17.7	29...	5.5	15.3	24...	4.0	16.4
17...	3.0	17.1	29...	6.0	15.9	NOV 1979		
17...	3.5	17.6	29...	6.5	15.7	30...	0.5	15.0
17...	4.0	17.4	29...	7.0	15.0	30...	1.0	15.6
17...	4.5	17.2	29...	7.5	14.4	30...	1.5	15.2
17...	5.0	16.8	JUL 1979			30...	2.0	14.7
17...	5.5	15.9	10...	0.5	13.8	30...	2.5	15.3

Table 25.--*Average soil moisture, in percent of total volume, at station 1*--Continued

DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME	DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME	DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME
NOV 1979			MAR 1980			MAY 1980		
30...	3.0	15.8	12...	3.0	16.8	27...	4.0	16.5
30...	3.5	16.2	12...	3.5	17.2	JUN 1980		
30...	4.0	16.2	12...	4.0	17.6	19...	0.5	20.1
DEC 1979			APR 1980			19...	1.0	21.3
21...	0.5	15.0	04...	0.5	21.7	19...	1.5	18.3
21...	1.0	15.6	04...	1.0	19.8	19...	2.0	15.6
21...	1.5	15.2	04...	1.5	17.4	19...	2.5	15.6
21...	2.0	14.5	04...	2.0	16.1	19...	3.0	16.2
21...	2.5	15.1	04...	2.5	16.2	19...	3.5	16.6
21...	3.0	15.8	04...	3.0	16.5	19...	4.0	16.5
21...	3.5	16.2	04...	3.5	16.7	JUL 1980		
21...	4.0	16.1	04...	4.0	16.5	09...	0.5	15.5
JAN 1980			25...	0.5	20.0	09...	1.0	16.8
29...	.5	16.8	25...	1.0	19.4	09...	1.5	16.1
29...	1.0	15.6	25...	1.5	17.4	09...	2.0	15.3
29...	1.5	15.3	25...	2.0	16.0	09...	2.5	15.5
29...	2.0	14.6	25...	2.5	16.1	09...	3.0	16.2
29...	2.5	15.6	25...	3.0	16.3	09...	3.5	16.7
29...	3.0	15.5	25...	3.5	16.8	09...	4.0	16.7
29...	3.5	15.8	25...	4.0	16.5	31...	0.5	14.7
29...	4.0	16.1	MAY 1980			31...	1.0	15.6
FEB 1980			16...	0.5	17.0	31...	1.5	15.2
22...	0.5	17.6	16...	1.0	17.7	31...	2.0	15.0
22...	1.0	15.8	16...	1.5	16.2	31...	2.5	15.3
22...	1.5	15.1	16...	2.0	15.7	31...	3.0	16.0
22...	2.0	14.8	16...	2.5	16.0	31...	3.5	16.4
22...	2.5	15.3	16...	3.0	16.4	AUG 1980		
22...	3.0	15.7	16...	3.5	16.6	19...	0.5	14.6
22...	3.5	16.2	16...	4.0	16.6	19...	1.0	15.3
22...	4.0	16.1	27...	0.5	16.7	19...	1.5	15.2
MAR 1980			27...	1.0	16.8	19...	2.0	15.0
12...	0.5	21.3	27...	1.5	15.4	19...	2.5	15.2
12...	1.0	18.9	27...	2.0	15.3	19...	3.0	15.9
12...	1.5	17.7	27...	2.5	15.6	19...	3.5	16.0
12...	2.0	16.8	27...	3.0	16.0	19...	4.0	16.2
12...	2.5	16.8	27...	3.5	16.6			

Table 26.--*Average soil moisture, in percent of total volume, at station 4*

DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME	DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME	DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME
MAY 1979			DEC 1979			MAY 1980		
16...	0.5	22.3	18...	0.5	20.2	16...	0.5	20.2
16...	1.0	24.0	18...	1.0	15.2	16...	1.0	20.4
16...	1.5	24.4	18...	1.5	15.1	16...	1.5	19.4
16...	2.0	26.0	18...	2.0	18.7	16...	2.0	19.1
16...	2.5	26.0	18...	2.5	20.7	16...	2.5	18.6
16...	3.0	26.0	18...	3.0	23.0	16...	3.0	20.4
16...	3.5	27.7	18...	3.5	24.4	16...	3.5	22.0
22...	0.5	22.2	JAN 1980			27...	0.5	19.4
22...	1.0	24.5	30...	0.5	16.0	27...	1.0	19.4
22...	1.5	24.8	30...	1.0	16.3	27...	1.5	18.7
22...	2.0	26.8	30...	1.5	18.4	27...	2.0	18.9
22...	2.5	26.5	30...	2.0	19.7	27...	2.5	18.6
22...	3.0	26.6	30...	2.5	24.1	27...	3.0	20.6
22...	3.5	28.2	30...	3.0	25.0	JUN 1980		
22...	4.0	29.4	30...	3.5	23.0	19...	0.5	22.7
JUN 1979			FEB 1980			19...	1.0	20.6
07...	0.5	22.5	20...	0.5	19.7	19...	1.5	18.8
07...	1.0	23.0	20...	1.0	16.6	19...	2.0	19.2
07...	1.5	23.4	20...	1.5	16.4	19...	2.5	18.7
07...	2.0	25.4	20...	2.0	17.4	19...	3.0	20.6
07...	2.5	24.9	20...	2.5	18.0	JUL 1980		
07...	3.0	25.3	20...	3.0	20.4	09...	0.5	16.8
07...	3.5	26.9	20...	3.5	22.2	09...	1.0	17.5
JUL 1979			MAR 1980			09...	1.5	17.6
13...	0.5	16.5	12...	0.5	27.5	09...	2.0	17.7
13...	1.0	18.5	12...	1.0	22.0	09...	2.5	18.2
13...	1.5	19.3	12...	1.5	16.7	09...	3.0	20.3
13...	2.0	20.9	12...	2.0	17.6	09...	3.5	22.0
13...	2.5	21.5	12...	2.5	18.0	30...	0.5	15.7
13...	3.0	23.3	12...	3.0	19.7	30...	1.0	16.4
13...	3.5	25.3	12...	3.5	21.8	30...	1.5	16.4
OCT 1979			APR 1980			30...	2.0	17.2
24...	0.5	15.3	02...	0.5	23.5	30...	2.5	18.1
24...	1.0	16.3	02...	1.0	22.7	30...	3.0	20.2
24...	1.5	16.1	02...	1.5	19.4	AUG 1980		
24...	2.0	17.0	02...	2.0	16.9	20...	0.5	14.6
24...	2.5	17.5	02...	2.5	17.0	20...	1.0	15.7
24...	3.0	19.6	02...	3.0	16.3	20...	1.5	15.6
24...	3.5	21.7	02...	3.5	16.0	20...	2.0	16.4
NOV 1979			24...	0.5	22.6	20...	2.5	17.1
28...	0.5	17.1	24...	1.0	22.1	20...	3.0	19.4
28...	1.0	16.4	24...	1.5	20.2	SEP 1980		
28...	1.5	16.2	24...	2.0	19.4	30...	0.5	14.4
28...	2.0	17.0	24...	2.5	18.7	30...	1.0	15.4
28...	2.5	17.6	24...	3.0	20.4	30...	1.5	15.4
28...	3.0	19.7	24...	3.5	22.1	30...	2.0	16.2
28...	3.5	21.8				30...	2.5	16.8
						30...	3.0	18.7

Table 27.--*Average soil moisture, in percent of total volume, at station 5*

DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME	DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME	DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME
AUG 1979			FEB 1980			MAY 1980		
09...	0.5	11.3	20...	1.0	13.5	27...	1.0	15.8
09...	1.0	12.4	MAR 1980			JUN 1980		
OCT 1979			12...	0.5	21.9	19...	0.5	17.6
24...	0.5	10.8	12...	1.0	18.6	19...	1.0	18.5
24...	1.0	11.9	APR 1980			JUL 1980		
NOV 1979			02...	0.5	21.9	09...	0.5	12.3
28...	0.5	12.7	02...	1.0	19.4	09...	1.0	13.3
28...	1.0	11.2	24...	0.5	17.1	30...	0.5	10.9
DEC 1979			24...	1.0	19.0	30...	1.0	11.7
18...	0.5	15.1	MAY 1980			AUG 1980		
18...	1.0	12.0	16...	0.5	15.7	20...	0.5	10.5
FEB 1980			16...	1.0	17.4	20...	1.0	10.9
20...	0.5	18.7	27...	0.5	16.0	SEP 1980		
						30...	0.5	12.4

Table 28.--*Average soil moisture, in percent of total volume, at station 7*

DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME	DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME	DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME
MAY 1979			NOV 1979			APR 1980		
17...	0.5	18.2	27...	2.5	14.5	24...	4.0	19.7
17...	1.0	20.0	27...	3.0	16.4	24...	4.5	20.2
17...	1.5	21.1	27...	3.5	17.6	MAY 1980		
17...	2.0	21.8	27...	4.0	16.7	14...	0.5	15.6
17...	2.5	22.3	27...	4.5	17.4	14...	1.0	16.6
17...	3.0	23.2	DEC 1979			14...	1.5	17.1
17...	3.5	23.1	19...	.5	17.7	14...	2.0	16.3
17...	4.0	21.4	19...	1.0	12.4	14...	2.5	17.9
17...	4.5	21.4	19...	1.5	13.5	14...	3.0	20.1
23...	0.5	17.2	19...	2.0	14.1	14...	3.5	21.2
23...	1.0	19.9	19...	2.5	15.8	14...	4.0	19.7
23...	1.5	21.2	19...	3.0	19.2	29...	0.5	15.2
23...	2.0	21.9	19...	3.5	21.7	29...	1.0	15.4
23...	2.5	22.8	19...	4.0	22.0	29...	1.5	16.1
23...	3.0	23.5	19...	4.5	23.4	29...	2.0	16.0
23...	3.5	23.5	JAN 1980			29...	2.5	17.6
23...	4.0	21.5	31...	0.5	18.9	29...	3.0	19.8
23...	4.5	21.5	31...	1.0	14.8	29...	3.5	18.4
JUN 1979			31...	1.5	15.7	29...	4.0	19.5
07...	0.5	16.0	31...	2.0	16.3	JUN 1980		
07...	1.0	18.2	31...	2.5	16.6	19...	0.5	16.5
07...	1.5	19.9	31...	3.0	20.0	19...	1.0	16.3
07...	2.0	20.9	31...	3.5	21.3	19...	1.5	16.6
07...	2.5	22.2	31...	4.0	23.3	19...	2.0	16.4
07...	3.0	22.8	31...	4.5	20.1	19...	2.5	20.0
07...	3.5	22.7	FEB 1980			19...	3.0	20.0
07...	4.0	21.0	20...	0.5	17.0	19...	3.5	20.9
07...	4.5	21.0	20...	1.0	13.7	19...	4.0	19.4
JUL 1979			20...	1.5	14.3	JUL 1980		
11...	0.5	13.0	20...	2.0	15.5	09...	0.5	12.7
11...	1.0	15.0	20...	2.5	17.4	09...	1.0	14.2
11...	1.5	16.8	20...	3.0	19.8	09...	1.5	15.6
11...	2.0	18.8	20...	3.5	18.6	09...	2.0	16.1
11...	2.5	20.7	20...	4.0	19.6	09...	2.5	17.5
11...	3.0	22.7	20...	4.5	19.9	09...	3.0	19.8
11...	3.5	23.4	MAR 1980			09...	3.5	21.0
11...	4.0	21.8	11...	0.5	24.1	09...	4.0	19.6
11...	4.5	21.9	11...	1.0	19.9	30...	0.5	11.5
OCT 1979			11...	1.5	16.8	30...	1.0	13.3
24...	0.5	11.8	11...	2.0	17.0	30...	1.5	14.6
24...	1.0	13.1	11...	2.5	16.9	30...	2.0	15.9
24...	1.5	14.1	11...	3.0	19.5	30...	2.5	17.5
24...	2.0	15.1	11...	3.5	22.9	30...	3.0	19.8
24...	2.5	16.9	11...	4.0	24.7	30...	3.5	20.4
24...	3.0	18.9	11...	4.5	23.3	30...	4.0	19.6
24...	3.5	21.0	APR 1980			AUG 1980		
24...	4.0	19.8	24...	0.5	18.1	20...	0.5	12.0
24...	4.5	20.2	24...	1.0	18.4	20...	1.0	13.0
NOV 1979			24...	1.5	17.5	20...	1.5	14.1
27...	0.5	11.5	24...	2.0	16.6	20...	2.0	15.1
27...	1.0	12.1	24...	2.5	17.8	20...	2.5	16.8
27...	1.5	12.7	24...	3.0	20.1	20...	3.0	18.8
27...	2.0	13.5	24...	3.5	21.1	20...	3.5	20.2
						20...	4.0	19.3

Table 29.--*Average soil moisture, in percent of total volume, at station 8*

DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME	DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME	DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME
MAY 1979			JUL 1979			NOV 1979		
18...	0.5	23.7	24...	1.5	17.4	27...	1.5	16.3
18...	1.0	24.3	24...	2.0	17.6	27...	2.0	16.5
18...	1.5	24.0	24...	2.5	18.3	27...	2.5	16.6
18...	2.0	23.9	24...	3.0	19.7	27...	3.0	15.6
18...	2.5	23.0	24...	3.5	21.2	27...	3.5	18.5
18...	3.0	23.3	24...	4.0	21.5	27...	4.0	19.3
18...	3.5	23.2	24...	4.5	21.6	27...	4.5	19.9
18...	4.0	22.3	24...	5.0	21.3	27...	5.0	20.4
18...	4.5	22.8	24...	5.5	22.5	27...	5.5	20.8
18...	5.0	22.1	AUG 1979			DEC 1979		
23...	0.5	22.0	09...	0.5	15.1	19...	0.5	20.3
23...	1.0	24.0	09...	1.0	16.5	19...	1.0	16.5
23...	1.5	24.5	09...	1.5	17.1	19...	1.5	16.8
23...	2.0	23.4	09...	2.0	17.1	19...	2.0	15.9
23...	2.5	22.9	09...	2.5	17.8	19...	2.5	15.4
23...	3.0	22.5	09...	3.0	18.9	19...	3.0	16.8
23...	3.5	22.5	09...	3.5	20.1	19...	3.5	17.4
23...	4.0	22.2	09...	4.0	21.0	19...	4.0	18.1
23...	4.5	21.9	09...	4.5	21.1	19...	4.5	20.6
23...	5.0	21.9	09...	5.0	21.6	19...	5.5	20.3
23...	5.5	22.5	09...	5.5	22.1	JAN 1980		
JUN 1979			23...	0.5	15.3	31...	0.5	21.5
07...	0.5	20.7	23...	1.0	16.6	31...	1.0	18.7
07...	1.0	22.2	23...	1.5	17.0	31...	1.5	17.7
07...	1.5	23.0	23...	2.0	17.3	31...	2.0	18.9
07...	2.0	22.3	23...	2.5	17.8	31...	2.5	18.2
07...	2.5	22.2	23...	3.0	18.9	31...	3.0	17.4
07...	3.0	22.1	23...	3.5	19.8	31...	3.5	17.1
07...	3.5	22.1	23...	4.0	21.0	31...	4.0	15.9
07...	4.0	22.2	23...	4.5	21.0	31...	4.5	16.2
07...	4.5	21.8	23...	5.0	21.6	31...	5.0	17.6
07...	5.0	21.9	OCT 1979			31...	5.5	17.5
07...	5.5	22.2	10...	0.5	14.4	FEB 1980		
29...	0.5	16.7	10...	1.0	15.9	22...	0.5	18.9
29...	1.0	18.7	10...	1.5	16.2	22...	1.0	16.2
29...	1.5	21.2	10...	2.0	16.6	22...	1.5	16.6
29...	2.0	20.7	10...	2.5	16.9	22...	2.0	16.9
29...	2.5	21.5	10...	3.0	17.4	22...	2.5	17.0
29...	3.0	22.1	10...	3.5	18.9	22...	3.0	17.4
29...	3.5	22.5	10...	4.0	20.1	22...	3.5	18.7
29...	4.0	22.6	10...	4.5	20.6	22...	4.0	19.7
29...	4.5	22.2	10...	5.0	20.9	22...	4.5	19.8
29...	5.0	22.4	10...	5.5	21.4	22...	5.0	20.6
29...	5.5	23.1	25...	0.5	14.8	22...	5.5	21.0
JUL 1979			25...	1.0	16.1	MAR 1980		
13...	0.5	15.6	25...	1.5	16.5	11...	0.5	22.7
13...	1.0	17.4	25...	2.0	16.6	11...	1.0	16.8
13...	1.5	18.5	25...	2.5	17.0	11...	1.5	16.5
13...	2.0	18.4	25...	3.0	17.5	11...	2.0	16.8
13...	2.5	19.3	25...	3.5	18.9	11...	2.5	16.9
13...	3.0	20.8	25...	4.0	21.3	11...	3.0	17.4
13...	3.5	21.8	25...	4.5	21.8	11...	3.5	18.6
13...	4.0	22.0	25...	5.0	22.0	11...	4.0	19.6
13...	4.5	22.0	25...	5.5	22.8	11...	4.5	19.9
13...	5.0	22.5	NOV 1979			11...	5.0	20.4
24...	0.5	15.3	27...	0.5	15.6	11...	5.5	21.0
24...	1.0	16.8	27...	1.0	15.9			

Table 29.--*Average soil moisture, in percent of total volume, at station 8*--Continued

DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME	DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME	DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME
APR 1980			MAY 1980			JUL 1980		
03...	0.5	23.9	14...	4.0	19.9	08...	2.0	16.5
03...	1.0	20.1	14...	4.5	20.5	08...	2.5	17.3
03...	1.5	17.2	14...	5.0	20.7	08...	3.0	18.0
03...	2.0	16.8	14...	5.5	21.3	08...	3.5	19.1
03...	2.5	17.1	28...	0.5	17.0	08...	4.0	20.2
03...	3.0	17.3	28...	1.0	17.1	08...	4.5	19.7
03...	3.5	18.9	28...	1.5	16.9	08...	5.0	21.0
03...	4.0	19.4	28...	2.0	16.7	08...	5.5	22.2
03...	4.5	19.8	28...	2.5	17.2	29...	0.5	14.4
03...	5.0	20.7	28...	3.0	17.8	29...	1.0	15.5
03...	5.5	20.7	28...	3.5	19.2	29...	1.5	16.2
23...	0.5	21.3	28...	4.0	20.4	29...	2.0	16.2
23...	1.0	19.8	28...	4.5	20.3	29...	2.5	16.5
23...	1.5	17.5	28...	5.0	20.7	29...	3.0	16.8
23...	2.0	17.1	28...	5.5	21.7	29...	3.5	18.3
23...	2.5	17.3	JUN 1980			29...	4.0	19.4
23...	3.0	17.8	18...	0.5	17.3	29...	4.5	19.9
23...	3.5	19.1	18...	1.0	17.3	29...	5.0	20.5
23...	4.0	19.8	18...	1.5	17.3	AUG 1980		
23...	4.5	20.2	18...	2.0	17.3	20...	0.5	14.1
23...	5.0	20.7	18...	2.5	17.4	20...	1.0	15.3
23...	5.5	21.3	18...	3.0	18.2	20...	1.5	15.9
MAY 1980			18...	3.5	19.3	20...	2.0	15.9
14...	0.5	18.0	18...	4.0	19.8	20...	2.5	16.1
14...	1.0	17.6	18...	4.5	20.9	20...	3.0	16.3
14...	1.5	17.3	18...	5.0	21.0	20...	3.5	17.6
14...	2.0	17.1	JUL 1980			20...	4.0	18.9
14...	2.5	17.2	08...	0.5	15.2	20...	4.5	19.5
14...	3.0	17.9	08...	1.0	15.6	20...	5.0	20.1
14...	3.5	19.1	08...	1.5	16.4			

Table 30.--*Average soil moisture, in percent of total volume, at station 9*

DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME	DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME	DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME
JUN 1979			DEC 1979			MAY 1980		
27...	0.5	15.4	19...	1.5	15.1	14...	0.5	20.4
27...	1.0	17.2	JAN 1980			14...	1.0	21.5
27...	1.5	18.8	31...	0.5	21.3	14...	1.5	22.5
JUL 1979			31...	1.0	19.9	28...	0.5	18.7
12...	0.5	13.7	31...	1.5	20.1	28...	1.0	18.9
12...	1.0	15.4	FEB 1980			28...	1.5	20.4
12...	1.5	16.6	21...	0.5	21.0	JUN 1980		
OCT 1979			21...	1.0	15.8	18...	0.5	20.0
25...	0.5	13.3	21...	1.5	15.3	18...	1.0	19.5
25...	1.0	14.1	MAR 1980			18...	1.5	20.0
25...	1.5	14.5	12...	.5	25.2	JUL 1980		
25...	2.0	17.7	12...	1.0	20.8	08...	0.5	14.4
NOV 1979			12...	1.5	14.7	08...	1.0	15.2
29...	0.5	15.1	APR 1980			08...	1.5	16.8
29...	1.0	14.1	03...	.5	27.7	29...	0.5	12.9
29...	1.5	14.5	03...	1.0	26.4	29...	1.0	13.4
DEC 1979			03...	1.5	25.5	29...	1.5	14.9
19...	0.5	20.5	23...	0.5	25.5	AUG 1980		
19...	1.0	15.2	23...	1.0	25.8	21...	0.5	12.6
			23...	1.5	26.0	21...	1.0	13.1
						21...	1.5	14.2

Table 31.--*Average soil moisture, in percent of total volume, at station 10*

DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME	DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME	DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME
JUN 1979			JAN 1980			MAY 1980		
26...	0.5	14.6	31...	3.0	18.9	14...	4.0	20.9
26...	1.0	16.7	31...	3.5	20.4	14...	4.5	21.5
26...	1.5	18.9	31...	4.0	22.6	14...	5.0	21.8
26...	2.0	21.2	31...	4.5	22.5	28...	0.5	17.6
26...	2.5	23.7	31...	5.0	20.7	28...	1.0	20.2
26...	3.0	22.8	FEB 1980			28...	1.5	21.3
26...	3.5	23.0	22...	0.5	21.1	28...	2.0	22.5
26...	4.0	21.7	22...	1.0	18.6	28...	2.5	22.3
26...	4.5	20.7	22...	1.5	18.2	28...	3.0	21.9
26...	5.0	23.7	22...	2.0	19.2	28...	3.5	19.3
26...	5.5	24.5	22...	2.5	19.9	28...	4.0	20.9
JUL 1979			22...	3.0	20.4	28...	4.5	21.6
12...	0.5	15.0	22...	3.5	18.5	28...	5.0	22.3
12...	1.0	17.2	22...	4.0	19.7	JUN 1980		
12...	1.5	19.0	22...	4.5	21.2	18...	0.5	19.1
12...	2.0	22.1	22...	5.0	21.5	18...	1.0	20.1
12...	2.5	22.6	MAR 1980			18...	1.5	21.2
12...	3.0	22.6	13...	.5	22.9	18...	2.0	22.2
12...	3.5	20.5	13...	1.0	20.2	18...	2.5	21.9
12...	4.0	21.9	13...	1.5	18.1	18...	3.0	21.6
12...	4.5	23.4	13...	2.0	19.0	18...	3.5	19.2
12...	5.0	23.7	13...	2.5	20.1	18...	4.0	21.1
12...	5.5	24.2	13...	3.0	20.7	18...	4.5	21.6
OCT 1979			13...	3.5	20.4	18...	5.0	22.3
25...	0.5	14.6	13...	4.0	21.9	JUL 1980		
25...	1.0	16.3	13...	4.5	19.6	08...	0.5	15.8
25...	1.5	17.7	13...	5.0	20.4	08...	1.0	17.3
25...	2.0	18.9	13...	5.5	22.2	08...	1.5	19.1
25...	2.5	20.0	APR 1980			08...	2.0	20.5
25...	3.0	20.2	03...	0.5	27.6	08...	2.5	20.9
25...	3.5	18.6	03...	1.0	25.1	08...	3.0	19.5
25...	4.0	20.1	03...	1.5	26.3	08...	3.5	19.3
25...	4.5	21.6	03...	2.0	26.2	08...	4.0	20.6
25...	5.0	22.1	03...	2.5	25.3	08...	4.5	23.9
NOV 1979			03...	3.0	24.8	08...	5.0	22.2
29...	0.5	15.7	03...	3.5	23.8	29...	0.5	14.3
29...	1.0	16.3	03...	4.0	25.0	29...	1.0	16.1
29...	1.5	17.5	03...	4.5	22.5	29...	1.5	17.1
29...	2.0	18.7	03...	5.0	22.2	29...	2.0	18.1
29...	2.5	19.3	23...	0.5	22.7	29...	2.5	16.6
29...	3.0	19.8	23...	1.0	25.1	29...	3.0	20.1
29...	3.5	18.3	23...	1.5	24.4	29...	3.5	18.4
29...	4.0	19.4	23...	2.0	24.0	29...	4.0	20.9
29...	4.5	21.0	23...	2.5	23.2	29...	4.5	21.2
29...	5.0	21.4	23...	3.0	22.5	29...	5.0	22.0
DEC 1979			23...	3.5	19.7	AUG 1980		
19...	0.5	22.3	23...	4.0	21.0	21...	0.5	14.2
19...	1.0	18.9	23...	4.5	22.2	21...	1.0	16.1
19...	1.5	16.9	23...	5.0	22.5	21...	1.5	16.9
19...	2.0	17.1	MAY 1980			21...	2.0	17.8
19...	2.5	18.0	14...	0.5	18.6	21...	2.5	18.5
JAN 1980			14...	1.0	22.0	21...	3.0	19.2
31...	0.5	20.8	14...	1.5	22.5	21...	3.5	17.8
31...	1.0	19.1	14...	2.0	22.9	21...	4.0	20.0
31...	1.5	17.9	14...	2.5	22.3	21...	4.5	21.1
31...	2.0	16.5	14...	3.0	21.8	21...	5.0	21.9
31...	2.5	17.1	14...	3.5	19.1			

Table 32.--*Average soil moisture, in percent of total volume, at station 15*

DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME	DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME	DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME
JUL 1979			FEB 1980			MAY 1980		
27...	0.5	13.3	20...	0.5	19.0	29...	0.5	16.9
27...	1.0	16.2	20...	1.0	16.6	29...	1.0	18.1
27...	1.5	18.9	20...	1.5	17.4	29...	1.5	18.5
27...	2.0	20.0	20...	2.0	18.6	29...	2.0	19.2
27...	2.5	21.8	20...	2.5	19.6	29...	2.5	19.6
OCT 1979			MAR 1980			JUN 1980		
25...	0.5	13.0	11...	0.5	21.6	19...	0.5	18.2
25...	1.0	15.8	11...	1.0	21.2	19...	1.0	18.6
25...	1.5	17.2	11...	1.5	19.5	19...	1.5	18.5
25...	2.0	18.5	11...	2.0	15.5	19...	2.0	19.1
25...	2.5	19.7	11...	2.5	14.9	19...	2.5	19.5
NOV 1979			APR 1980			JUL 1980		
28...	0.5	14.1	02...	0.5	17.5	09...	0.5	14.0
28...	1.0	15.9	02...	1.0	17.3	09...	1.0	16.5
28...	1.5	16.8	02...	1.5	16.4	09...	1.5	17.6
28...	2.0	18.2	02...	2.0	17.3	09...	2.0	18.8
28...	2.5	19.2	02...	2.5	17.7	09...	2.5	19.8
DEC 1979			24...	0.5	20.8	30...	0.5	13.2
19...	0.5	13.5	24...	1.0	22.1	30...	1.0	16.1
19...	1.0	14.6	24...	1.5	19.8	30...	1.5	17.1
19...	1.5	15.0	24...	2.0	19.1	30...	2.0	18.2
19...	2.0	15.1	24...	2.5	19.6	AUG 1980		
19...	2.5	15.7	MAY 1980			20...	0.5	12.6
JAN 1980			15...	0.5	17.7	20...	1.0	15.6
31...	0.5	16.3	15...	1.0	20.2	20...	1.5	16.6
31...	1.0	15.9	15...	1.5	19.4	20...	2.0	17.6
31...	1.5	15.6	15...	2.0	19.4	20...	2.5	18.5
31...	2.0	15.5	15...	2.5	19.8			
31...	2.5	16.2						

Table 33.--*Average soil moisture, in percent of total volume, at station 16*

DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME	DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME	DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME
JUL 1979			JAN 1980			MAY 1980		
27...	0.5	15.3	31...	0.5	18.0	14...	0.5	21.3
27...	1.0	17.7	31...	1.0	16.0	14...	1.0	22.5
27...	1.5	19.8	31...	1.5	15.6	14...	1.5	22.0
27...	2.0	22.9	31...	2.0	16.3	14...	2.0	23.1
27...	2.5	24.6	31...	2.5	16.0	29...	0.5	18.5
OCT 1979			FEB 1980			29...	1.0	20.1
10...	.5	15.1	20...	0.5	20.9	29...	1.5	21.1
10...	1.0	18.3	20...	1.0	18.1	29...	2.0	22.3
10...	1.5	21.0	20...	1.5	19.1	JUN 1980		
10...	2.0	24.7	20...	2.0	21.4	19...	0.5	20.6
10...	2.5	27.6	20...	2.5	23.2	19...	1.0	20.9
25...	0.5	14.8	MAR 1980			19...	1.5	21.1
25...	1.0	17.1	11...	0.5	25.2	19...	2.0	22.4
25...	1.5	18.7	11...	1.0	22.4	JUL 1980		
25...	2.0	21.3	11...	1.5	14.4	09...	0.5	15.7
25...	2.5	23.6	11...	2.0	16.5	09...	1.0	17.8
NOV 1979			11...	2.5	14.1	09...	1.5	20.0
27...	0.5	16.2	APR 1980			09...	2.0	22.3
27...	1.0	17.5	02...	0.5	24.3	JUL 1980		
27...	1.5	19.3	02...	1.0	22.2	30...	0.5	12.2
27...	2.0	21.7	02...	1.5	22.2	30...	1.0	16.2
27...	2.5	23.8	02...	2.0	22.4	30...	1.5	18.6
DEC 1979			02...	2.5	21.7	30...	2.0	21.1
19...	0.5	14.5	24...	0.5	22.9	AUG 1980		
19...	1.0	14.6	24...	1.0	23.3	20...	0.5	14.4
19...	1.5	14.1	24...	1.5	21.8	20...	1.0	16.6
19...	2.0	14.6	24...	2.0	22.5	20...	1.5	18.6
19...	2.5	15.2	24...	2.5	23.1	20...	2.0	21.0

Table 34.--*Average soil moisture, in percent of total volume, at station 18*

DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME	DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME	DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME
JUL 1979			FEB 1980			MAY 1980		
24...	0.5	13.2	22...	0.5	18.7	27...	1.5	15.5
24...	1.0	13.8	22...	1.0	14.0	27...	2.0	16.9
24...	1.5	15.1	22...	1.5	14.5	27...	2.5	17.8
24...	2.0	16.9	22...	2.0	16.4	27...	3.0	18.5
24...	2.5	19.2	22...	2.5	17.8	27...	3.5	19.7
24...	3.0	20.1	22...	3.0	18.4	27...	4.0	20.6
24...	3.5	21.6	22...	3.5	19.2	JUN 1980		
24...	4.0	22.8	22...	4.0	20.2	18...	0.5	17.3
24...	4.5	24.2	22...	4.5	21.3	18...	1.0	15.3
AUG 1979			MAR 1980			18...	1.5	15.3
23...	0.5	13.6	11...	0.5	21.3	18...	2.0	16.8
23...	1.0	14.2	11...	1.0	16.2	18...	2.5	17.9
23...	1.5	15.2	11...	1.5	16.3	18...	3.0	18.1
23...	2.0	17.3	11...	2.0	17.4	18...	3.5	19.3
23...	2.5	19.4	11...	2.5	18.8	18...	4.0	20.3
23...	3.0	20.1	11...	3.0	19.3	JUL 1980		
23...	3.5	21.4	11...	3.5	21.0	08...	0.5	13.3
23...	4.0	22.9	11...	4.0	21.5	08...	1.0	14.3
23...	4.5	24.0	11...	4.5	21.8	08...	1.5	15.4
NOV 1979			APR 1980			08...	2.0	17.0
27...	0.5	14.5	23...	0.5	20.1	08...	2.5	17.6
27...	1.0	13.6	23...	1.0	17.8	08...	3.0	18.5
27...	1.5	14.3	23...	1.5	16.0	08...	3.5	19.4
27...	2.0	16.0	23...	2.0	17.2	29...	0.5	12.6
27...	2.5	17.7	23...	2.5	18.0	29...	1.0	13.3
27...	3.0	18.2	23...	3.0	18.5	29...	1.5	14.4
27...	3.5	19.3	23...	3.5	19.7	29...	2.0	16.2
27...	4.0	20.3	23...	4.0	20.5	29...	2.5	16.9
JAN 1980			MAY 1980			29...	3.0	17.5
31...	0.5	16.4	14...	0.5	15.6	29...	3.5	18.7
31...	1.0	16.1	14...	1.0	15.7	29...	4.0	19.6
31...	1.5	16.0	14...	1.5	15.6	AUG 1980		
31...	2.0	16.2	14...	2.0	17.1	20...	0.5	12.5
31...	2.5	16.8	14...	2.5	17.9	20...	1.0	12.9
31...	3.0	17.7	14...	3.0	18.4	20...	1.5	13.8
31...	3.5	18.8	14...	3.5	19.5	20...	2.0	15.5
31...	4.0	21.1	14...	4.0	20.6	20...	2.5	16.4
31...	4.5	19.5	27...	0.5	15.1	20...	3.0	16.8
			27...	1.0	15.2	20...	3.5	18.1
						20...	4.0	18.6

Table 35.--*Average soil moisture, in percent of total volume, at station 19*

DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME	DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME	DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME
JUN 1979			DEC 1979			MAY 1980		
27...	0.5	13.7	19...	2.5	21.3	14...	2.5	19.6
27...	1.0	17.5	JAN 1980			28...	0.5	16.9
27...	1.5	20.7	31...	0.5	23.1	28...	1.0	18.5
27...	2.0	21.6	31...	1.0	22.3	28...	1.5	19.8
27...	2.5	22.3	31...	1.5	22.4	28...	2.0	18.9
27...	3.0	23.9	31...	2.0	20.8	28...	2.5	19.5
JUL 1979			31...	2.5	20.7	JUN 1980		
12...	0.5	13.6	FEB 1980			18...	0.5	19.4
12...	1.0	17.0	22...	0.5	23.1	18...	1.0	19.4
12...	1.5	20.0	22...	1.0	18.1	18...	1.5	19.9
12...	2.0	20.5	22..	1.5	18.2	18...	2.0	18.7
12...	2.5	21.5	22..	2.0	17.6	18...	2.5	19.3
OCT 1979			22...	2.5	18.6	JUL 1980		
25...	0.5	13.7	APR 1980			08...	0.5	14.2
25...	1.0	16.3	03...	0.5	24.2	08...	1.0	16.6
25...	1.5	17.5	03...	1.0	24.2	08...	1.5	17.7
25...	2.0	17.4	03...	1.5	23.2	08...	2.0	17.6
25...	2.5	18.6	03...	2.0	19.8	08...	2.5	18.8
NOV 1979			03...	2.5	19.4	29...	0.5	13.5
29...	0.5	14.9	23...	0.5	21.1	29...	1.0	15.4
29...	1.0	16.0	23...	1.0	22.8	29...	1.5	16.5
29...	1.5	17.3	23...	1.5	23.3	29...	2.0	16.4
29...	2.0	17.1	23...	2.0	20.8	29...	2.5	17.9
29...	2.5	18.1	23...	2.5	20.3	AUG 1980		
DEC 1979			MAY 1980			21...	0.5	13.3
19...	0.5	20.0	14...	0.5	16.7	21...	1.0	15.1
19...	1.0	16.5	14...	1.0	19.4	21...	1.5	16.3
19...	1.5	19.8	14...	1.5	20.7	21...	2.0	15.9
19...	2.0	20.3	14...	2.0	19.6	21...	2.5	17.5

Table 36.--*Average soil moisture, in percent of total volume, at station 20*

DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME	DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME	DATE	SAMPLING DEPTH (FT)	AVERAGE SOIL MOISTURE PERCENT OF TOTAL VOLUME
JUL 1979			MAR 1980			MAY 1980		
27...	0.5	14.3	11...	0.5	23.9	28...	2.0	20.1
27...	1.0	16.7	11...	1.0	20.4	28...	2.5	20.3
27...	1.5	17.8	11...	1.5	19.8	28...	3.0	21.2
27...	2.0	21.3	11...	2.0	19.4	28...	3.5	21.3
27...	2.5	22.3	11...	2.5	19.4	28...	4.0	22.9
27...	3.0	23.2	11...	3.0	19.8	JUN 1980		
27...	3.5	23.3	11...	3.5	24.6	18...	0.5	20.9
27...	4.0	24.2	11...	4.0	25.3	18...	1.0	21.1
OCT 1979			APR 1980			18...	1.5	19.5
25...	0.5	14.3	03...	0.5	22.5	18...	2.0	20.0
25...	1.0	16.1	03...	1.0	22.6	18...	2.5	20.5
25...	1.5	17.2	03...	1.5	18.8	18...	3.0	21.2
25...	2.0	19.4	03...	2.0	19.6	18...	3.5	21.2
25...	2.5	20.3	03...	2.5	20.2	JUL 1980		
25...	3.0	21.2	03...	3.0	20.7	08...	0.5	13.9
25...	3.5	21.5	03...	3.5	20.9	08...	1.0	17.5
25...	4.0	23.0	03...	4.0	22.4	08...	1.5	18.5
NOV 1979			23...	.5	21.0	08...	2.0	20.2
27...	0.5	15.5	23...	1.0	22.5	08...	2.5	20.6
27...	1.0	16.2	23...	1.5	19.6	08...	3.0	21.3
27...	1.5	17.1	23...	2.0	19.8	08...	3.5	22.2
27...	2.0	19.4	23...	2.5	20.4	29...	0.5	14.2
27...	2.5	20.3	23...	3.0	20.9	29...	1.0	16.0
27...	3.0	21.0	23...	3.5	20.8	29...	1.5	
27...	3.5	21.2	MAY 1980			29...	2.0	18.6
27...	4.0	22.7	14...	0.5	18.4	29...	2.5	19.7
JAN 1980			14...	1.0	20.4	29...	3.0	21.0
31...	0.5	20.9	14...	1.5	19.4	29...	3.5	21.6
31...	1.0	14.9	14...	2.0	20.1	AUG 1980		
31...	1.5	14.6	14...	2.5	20.4	20...	0.5	14.2
31...	2.0	14.8	14...	3.0	21.1	20...	1.0	15.8
31...	2.5	15.2	14...	3.5	21.2	20...	1.5	16.6
31...	3.0	15.1	28...	0.5	17.6	20...	2.0	18.1
31...	3.5	15.8	28...	1.0	19.0	20...	2.5	19.2
31...	4.0	15.8	28...	1.5	18.8	20...	3.0	20.3
						20...	3.5	21.0

Table 37.--*Average daily stream discharge, in cubic feet per second, at station 2* (06307528)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.06	.00	.00	.00	.03	.00	.00	.75	.00	.00	.00
7	.00	.07	.00	.00	.00	.20	.00	.00	.07	.00	.00	.00
8	.00	.07	.00	.00	.00	1.0	.00	.00	.00	.00	.00	.00
9	.00	.07	.00	.00	.00	.15	.00	.00	.00	.00	.00	.00
10	.00	.11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.20	.00	.00	.00	.01	.00	.00	13	.00	.01	.00
15	.01	.60	.00	.00	.00	.00	.00	.00	1.2	.00	.01	.00
16	.03	.10	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00
17	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.08	.00	.00	.00	.60	.00	.00	.00	.00	.00	.00	.00
21	.11	.00	.00	.00	2.0	.00	.00	.00	.00	.00	.00	.00
22	.03	.00	.00	.00	.80	.00	.00	.00	.00	.00	.00	.00
23	.16	.00	.00	.00	1.0	.00	.00	.00	.00	.00	.00	.00
24	.07	.00	.00	.02	.80	.00	.00	.00	.00	.00	.00	.00
25	.11	.00	.00	.00	.60	.00	.00	.00	.00	.00	.00	.00
26	.04	.00	.00	.00	.80	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	1.6	.00	.00	.00	.00	.00	.00	.00
28	.03	.00	.00	.00	1.1	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	.60	.00	.00	.00	.00	.00	.00	.00
30	.01	.00	.00	.00		.00	.00	.02	.00	.00	.00	.00
31	.00		.00	.00		.00		.00		.00	.00	
TOTAL	1.17	1.48	.09	.02	9.9	1.39	.00	.02	15.02	.00	.03	.00
MEAN	.038	.049	.003	.001	.34	.045	.000	.001	.50	.000	.001	.000
MAX	.27	.60	.05	.02	2.0	1.0	.00	.02	13	.00	.01	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Water year October 1979 to September 1980 YEAR TOTAL 29.12 MEAN 0.080 MAX 13 MIN 0.00

Table 38.--*Average daily stream discharge, in cubic feet per second, at station 18* (06307525)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.13	0.13	0.06	0.02	0.10	0.10	0.18	0.07	0.09	0.06	0.02	0.07
2	.13	.13	.06	.02	.10	.10	.17	.07	.09	.06	.02	.07
3	.13	.13	.06	.02	.10	.08	.18	.07	.09	.07	.06	.07
4	.10	.13	.06	.02	.10	.06	.20	.07	.09	.07	.06	.07
5	.10	.13	.07	.02	.10	.04	.18	.09	.09	.06	.03	.03
6	.09	.18	.09	.01	.10	.06	.18	.09	.09	.06	.02	.03
7	.09	.18	.10	.01	.08	.06	.22	.09	.09	.06	.03	.03
8	.09	.18	.09	.01	.08	.06	.20	.07	.09	.07	.02	.07
9	.10	.18	.10	.01	.08	.07	.20	.09	.10	.07	.02	.09
10	.09	.18	.09	.01	.08	.07	.20	.10	.10	.06	.02	.07
11	.09	.18	.09	.02	.08	.07	.20	.20	.10	.06	.04	.09
12	.09	.13	.07	.06	.08	.07	.20	.18	.10	.07	.02	.10
13	.10	.13	.06	.06	.08	.06	.18	.18	.10	.06	.04	.09
14	.09	.13	.06	.06	.06	.06	.18	.18	.10	.09	.03	.09
15	.09	.13	.06	.06	.04	.07	.18	.13	.10	.07	.02	.13
16	.09	.13	.02	.05	.06	.06	.18	.18	.10	.07	.02	.18
17	.10	.13	.02	.04	.20	.04	.18	.18	.10	.07	.01	.10
18	.10	.13	.03	.04	1.0	.06	.32	.10	.10	.10	.02	.18
19	.10	.13	.04	.04	5.0	.09	.49	.13	.09	.07	.03	.10
20	.10	.13	.06	.04	4.5	.07	.32	.10	.06	.09	.04	.18
21	.13	.10	.06	.06	4.1	.06	.32	.10	.06	.10	.04	.13
22	.13	.10	.06	.12	3.5	.06	.32	.10	.06	.13	.04	.18
23	.10	.10	.06	.18	3.0	.13	.32	.09	.06	.07	.03	.18
24	.10	.10	.06	.18	3.0	.07	.13	.12	.07	.06	.03	.32
25	.10	.10	.06	.18	3.0	.07	.10	.14	.07	.06	.07	.18
26	.10	.10	.06	.18	1.5	.07	.13	.12	.07	.06	.07	.18
27	.10	.09	.04	.13	.80	.10	.10	.10	.09	.04	.09	.18
28	.10	.07	.03	.10	.60	.49	.09	.18	.07	.03	.07	.07
29	.10	.07	.03	.10	.50	.49	.09	.10	.07	.03	.06	.09
30	.13	.06	.02	.13		.32	.09	.10	.07	.02	.09	.09
31	.13		.02	.13		.25		.09		.02	.09	
TOTAL	3.22	3.79	1.79	2.11	32.02	3.46	6.03	3.61	2.56	2.01	1.25	3.44
MEAN	.10	.13	.058	.068	1.10	.11	.20	.12	.085	.065	.040	.11
MAX	.13	.18	.10	.18	5.0	.49	.49	.20	.10	.13	.09	.32
MIN	.09	.06	.02	.01	.04	.04	.09	.07	.06	.02	.01	.03

Water year October 1979 to September 1980 YEAR TOTAL 65.29 MEAN 0.18 MAX 5.0 MIN 0.01

Table 39.--*Chemical quality of water at station 2*

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH, FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM, DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
FEB 21 1980...	1045	1.7	440	8.4	3.0	1.0	11.3	89	170	72	26	26

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE, DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE, DIS-SOLVED (MG/L AS BR)	IODIDE, DIS-SOLVED (MG/L AS I)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
FEB 21 1980...	12	0.4	11	100	100	4.0	0.1	0.1	0.00	9.4	249

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED (MG/L AS C)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)
FEB 21 1980...	0.34	1.14	0.23	0.040	1.9	1.9	0.250	51	2.8	190	160

Table 40.--*Chemical quality of water at station 18*

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH, FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM, DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
FEB 21 1980...	1430	4.1	530	7.9	7.0	0.5	11.7	93	210	74	33	32
MAY 15 1980...	1130	.19	1850	8.0	19.0	11.0	8.9	93	990	530	100	180

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE, DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE, DIS-SOLVED (MG/L AS BR)	IODIDE, DIS-SOLVED (MG/L AS I)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
FEB 21 1980...	13	0.4	10	140	110	3.0	0.1	0.1	0.00	9.0	295
MAY 15 1980...	100	1.4	7.5	460	680	7.2	.4	.0	.00	9.7	1360

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED (MG/L AS C)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)
FEB 21 1980...	0.40	3.27	0.07	0.190	2.2	2.4	0.270	31	2.9	160	150
MAY 15 1980...	1.85	.70	.18	.000	8.8	8.8	.010	13	.3	90	<10

Table 41.--*Suspended sediment at station 2*

DATE	TIME	TEMPERATURE, WATER (DEG C)	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
FEB 21 1980...	1045	1.0	1.7	45	0.21

Table 42.--*Suspended sediment at station 18*

DATE	TIME	TEMPERATURE, WATER (DEG C)	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
FEB 21 1980...	1430	0.5	4.1	189	2.1
MAY 15 1980...	1130	11.0	.19	10	.01