

HYDROLOGIC AND CLIMATOLOGIC DATA FOR THE LEHIGH AREA, SOUTHEASTERN OKLAHOMA, MAY 1977 TO JANUARY 1982

By Stephen P. Blumer and Jonathon C. Scott

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FACTORS FOR CONVERTING INCH-POUND UNITS TO
INTERNATIONAL SYSTEM OF UNITS (SI)

For the convenience of readers who may want to use International System of Units (SI), the data may be converted by using the following factors:

<u>Multiply the inch-pound units</u>	<u>By</u>	<u>To obtain the SI units</u>
square miles (mi ²)	2.590	square kilometers
cubic feet per second (ft ³ /s)	0.02832	cubic meters per second
inches (in.)	25.4	millimeters
feet (ft)	0.3048	meters
tons (short) per day	0.9072	megagrams per day
gallons per minute (gpm)	0.06309	liters per second

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

$$^{\circ}\text{F} = 1.8^{\circ}\text{C} + 32$$

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

HYDROLOGIC AND CLIMATOLOGIC DATA FOR THE LEHIGH AREA,
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ABSTRACT

Hydrologic and climatologic data were collected in the Lehigh area in southeastern Oklahoma during an investigation of the hydrologic effects of coal strip-mining. The purpose of the study was to assess the probable effects of surface mining for coal and subsequent reclamation on the hydrologic characteristics of the basin. This report presents all the data collected between 1977 and 1982.

The data include: (1) greater than four years of daily and selected unit streamflow, daily suspended-sediment discharge, analyses of periodic samples for chemical quality, and daily temperature, pH, specific conductance, and dissolved oxygen at the Coal Creek near Lehigh gaging station; (2) partial record discharge data and analyses of periodic samples for chemical quality and sediment for two tributaries of Coal Creek; (3) climatologic data for four sites; (4) soil moisture at 13 measurement sites; (5) continuous record of the water level in one well; (6) periodic record of water level in a second well; (7) water-level records for 43 wells and springs including on-site measurement of physical parameters; and (8) complete chemical analyses of water samples from eleven wells and one spring.

INTRODUCTION

The U.S. Geological Survey, Water Resources Division, in cooperation with the U.S. Bureau of Land Management is conducting a study of the hydrologic effects of coal extraction by strip mining techniques. The U.S. Bureau of Land Management (BLM) is charged with the responsibility of assessing the probable water resource impacts and reclamation capabilities of any area under Federal jurisdiction in which surface mining for coal might occur. Funding has been provided by the BLM to the U.S. Geological Survey (USGS) to collect and interpret hydrologic data for selected coal deposits in southeastern Oklahoma (fig. 1a) as part of BLM's Energy Minerals Rehabilitation Inventory and Analysis (EMRIA) program.

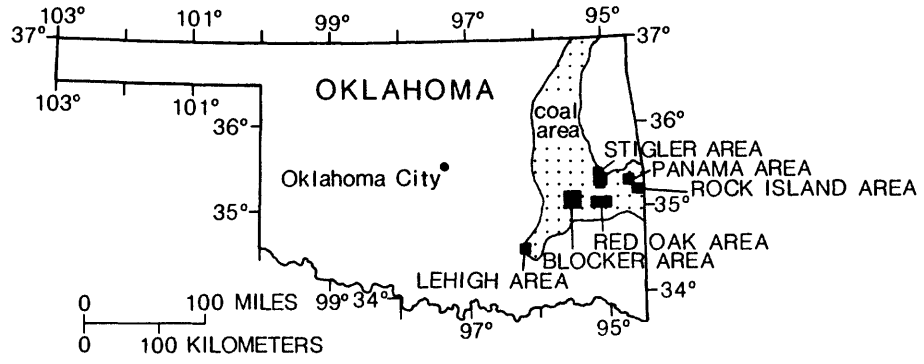
Site monitoring in five potential mine areas: Blocker (Marcher and others, 1981), Stigler (Marcher, Huntzinger, Stoner, and Blumer, 1983), Rock Island (Marcher and others, 1983a), Red Oak (Marcher and others, 1983b) and Panama began as early as 1976, as part of EMRIA. Data collection activities were conducted primarily to provide baseline hydrologic information for the assessment of the rehabilitation of Federal coal lease tracts.

In contrast, an in-depth study was initiated near Lehigh (figs. 1 and 2) in October 1977, with the objective to develop, calibrate, and verify a hydrologic model. A precipitation-runoff model is being used by the USGS as one tool to predict the probable impacts of surface mining for coal in eastern Oklahoma coal field.

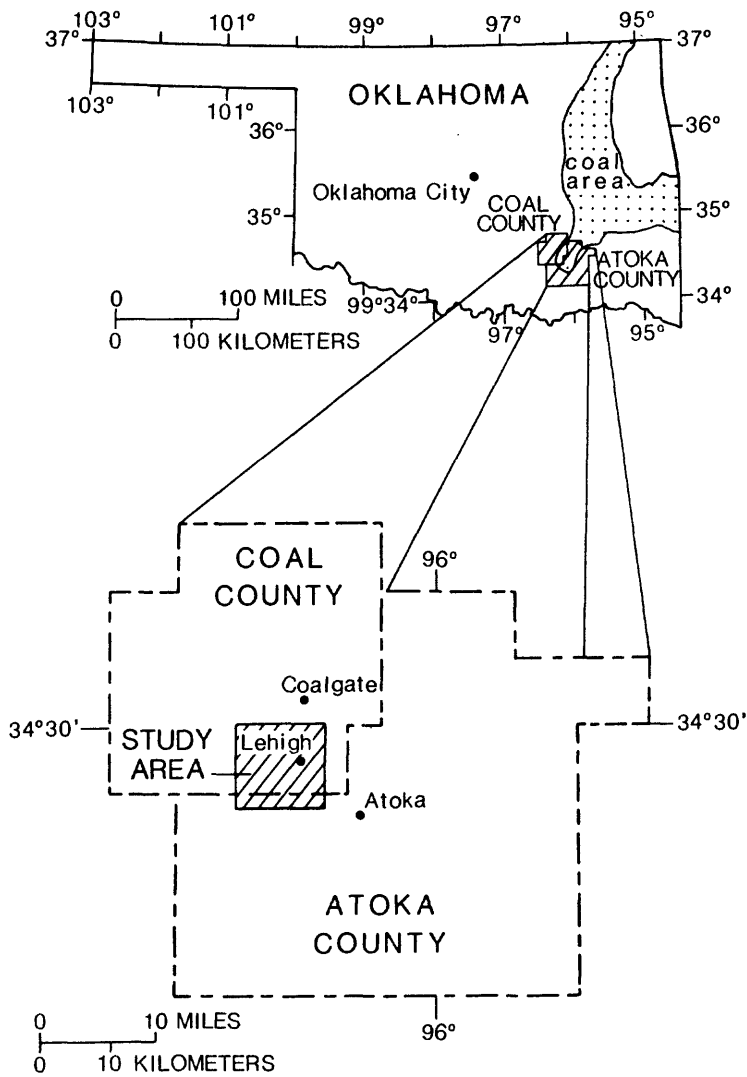
The purpose of this report is to provide a compilation of the data collected as part of the precipitation-runoff modeling study in Oklahoma. Most of the data are stored in the U.S. Geological Survey National Water Data Storage and Retrieval System (WATSTORE). The data presented are from the initiation of the collection program in May 1977 through January 1982.

STUDY AREA

Within the larger Lehigh area data collection was concentrated in the 8.1 mi² Coal Creek basin (fig. 2). Although the emphasis was on Coal Creek, the surrounding area was studied to define boundary conditions and to measure previously mined areas in hydrologically similar situations. The elevation of the western, more hilly portion of the Coal Creek basin is about 850 ft (NGVD of 1929). The eastern boundary, near the basin outlet, has an elevation of about 600 ft. The drainage pattern is dendritic. Coal Creek is an ephemeral stream with periods of no flow in the summer--corresponding to the relatively dry season and period of large evapotranspiration loss. Two main tributaries of Coal Creek (fig. 2), draining nearly equal areas, join less than one mile upstream from the stream-gaging station. Numerous small seeps and springs, particularly in the northwest portion of the basin, discharge the entire year. Forest cover is predominant along the western basin boundary. Most of the basin is relatively flat to gently sloping pasture land.



(a)



(b)

Figure 1.--Location of study area.

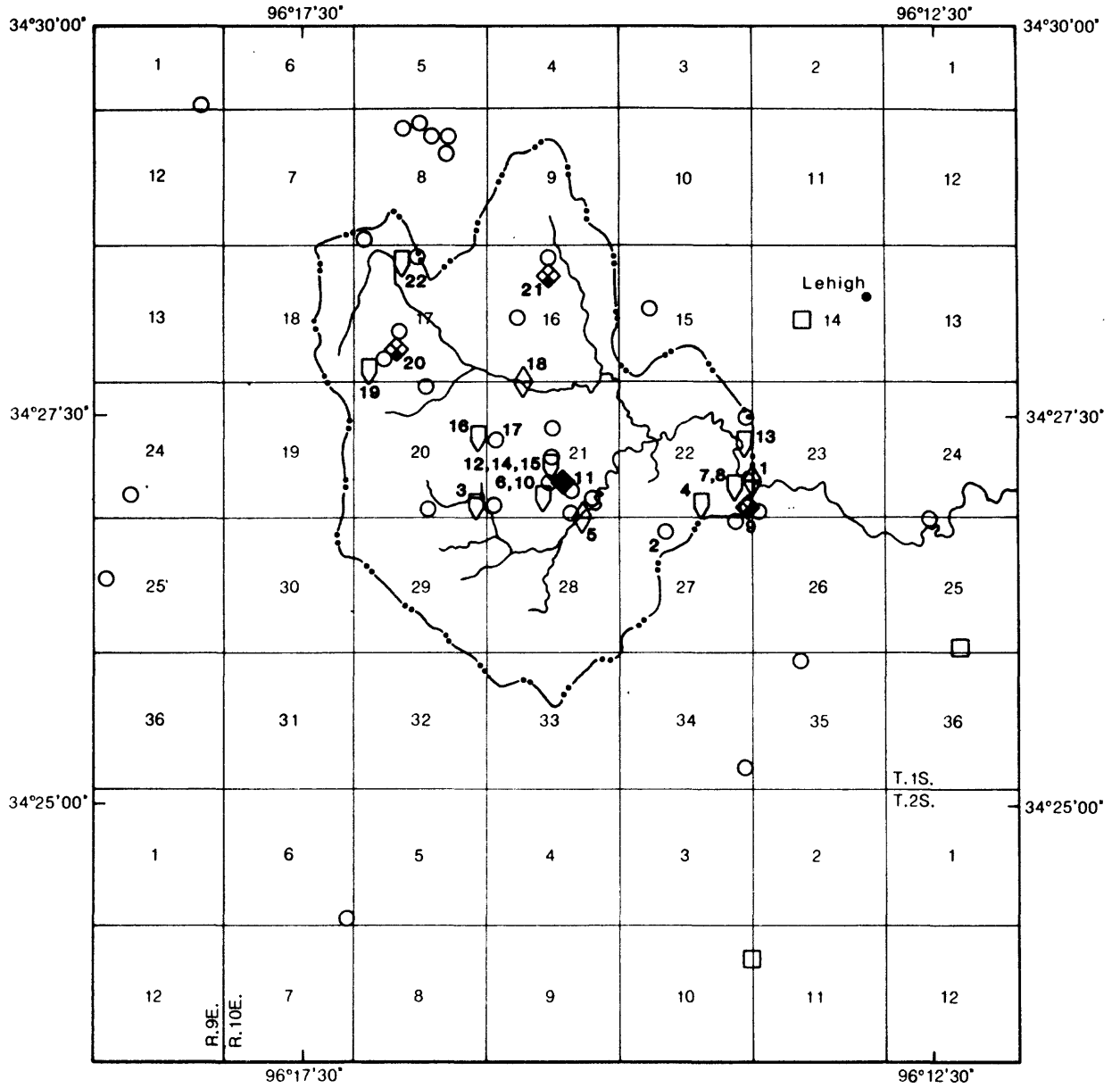


Figure 2.--Study area and location of data-collection sites.

EXPLANATION

- Well or spring
- △ Discharge measurement site
- ▽ Water-quality measurement site
- Mine-pond measurement site
- ◆ Complete weather station
- ◇ Precipitation gage
- ⊥ Soil moisture measurement site
- Basin boundary
- 7 Sampling site number

Base from U.S. Geological Survey

Lehigh 1:24,000, 1957

Olney 1:24,000, 1969

0 1 MILE
|-----|
0 1 KILOMETER

Several vegetation types are represented in the basin (fig. 3). The upland forested areas consist of walnut, blackjack oak and post oak with broomsedge and red threeawn in recently cleared and open areas (Branson, 1978). In the relatively flat area hackberry, Osage orange and pecan are the dominate riparian vegetation with pasture lands of broomsedge, Bermuda grass, red threeawn and annual snakeweed. Formerly cultivated areas have been returned to pastures.

Soils of the study area fall into three major groups (Moebius and others, 1974). The Bonham-Bates-Parsons association, present over most of the study area, consists of loamy soils that have a clayey and loamy subsoil over sandstone, shale, or loamy or clayey sediment. The Homa-Rock outcrop association, present only in the western more hilly portion of the study area, consists of loamy soils that have a clayey subsoil over shale or clay, and rock outcrops. The third major soil type, present in the central and western portions of the study area, is the Hartsells-Homa association. This soil association consists of loamy soils that have a loamy or clayey subsoil over shale, clay, or sandstone.

There is presently (1982) no annual soil tillage in the basin. The cover condition is good with little erosion. Some formerly cultivated areas show evidence of past erosion. One particular area has relatively steep slopes with fine-textured soil.

Coal Creek study area is underlain by the Hartshorne Sandstone and the McAlester Formation of Pennsylvanian age (Knechtel, 1937). The Hartshorne Sandstone consists of a lower sandstone unit and an upper shale unit. The lower Hartshorne coal, which extends across the study area, lies within the shale unit. The McAlester Formation consists mainly of shale, but includes several persistent ridge-forming sandstones similar to the Hartshorne.

The climate of the area consists of long hot humid summers and generally cool, mild winters with little snow. Annual precipitation is about 42 inches with heaviest accumulations in April and May. Thunderstorms are dominant in spring through summer with frontal precipitation more common in late fall to early spring. The mean annual temperature is 17°C. Summer daytime high temperatures range from 30°C to 37°C, with temperatures over 38°C occurring frequently. The mean monthly temperature for January is about 4°C. The frost-free period lasts from March to mid-November, allowing about an eight month growing season. Lake evaporation is about 55 inches annually (Holbrook, 1974). Southerly winds prevail during the summer, supplying moisture from the Gulf of Mexico. Wintertime weather can alternate between southerly humid and drier polar air masses.

EXPLANATION

- Upland Tree Habitat**
- Walnut-Blackjack Oak
- Postoak-Blackjack Oak
- Broomsedge-Blackjack Oak
- Broomsedge-Red Threawn
- Formerly Cultivated Eroded Lands
- Lowland Tree Habitat**
- Hackberry-Osage Orange-Pecan
- Broomsedge-Bermuda Grass

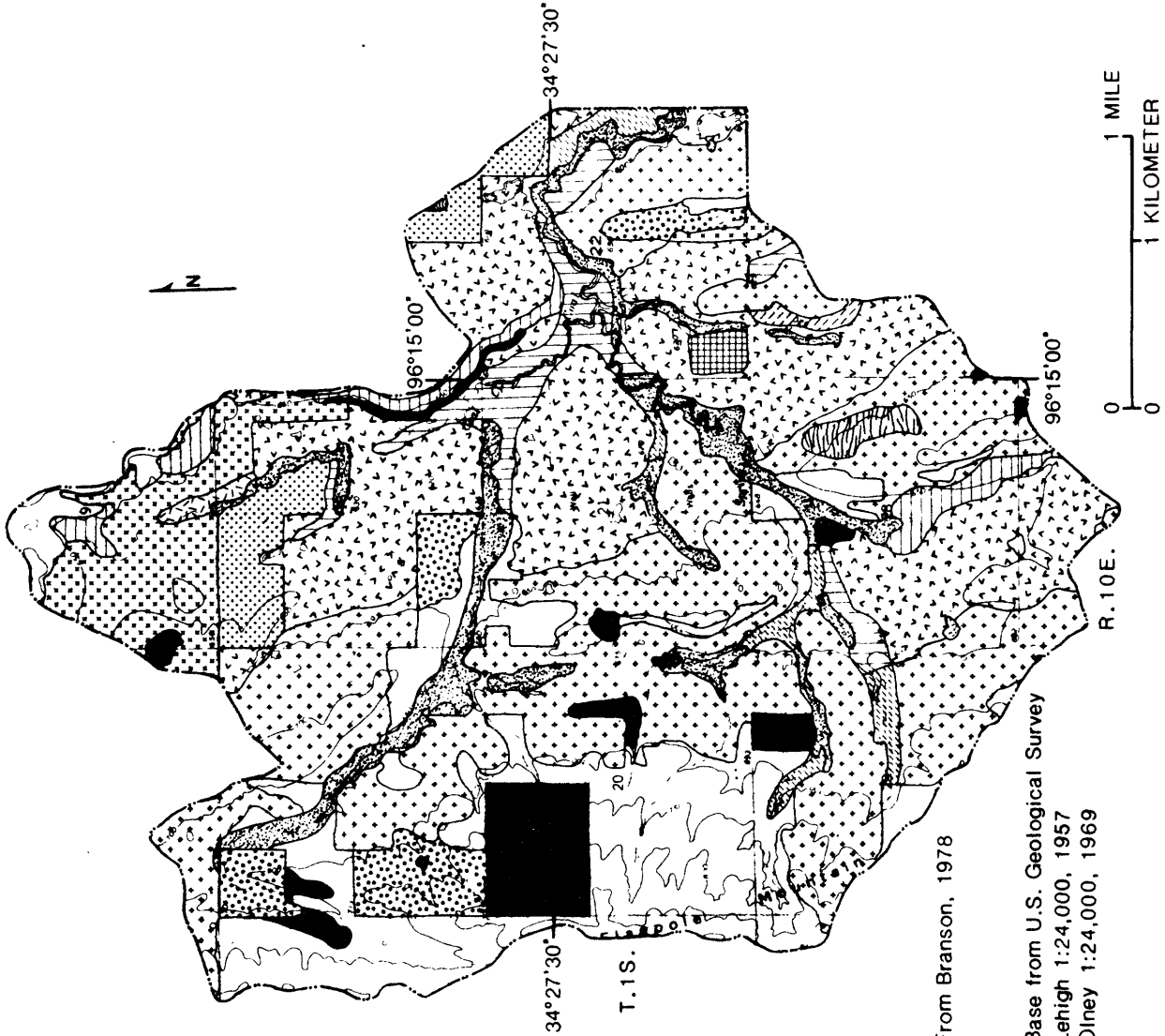
- Upland Grass Habitat**
- Bermuda Grass-Annual Snakeweed
- Red Threawn-Broomsedge
- Bermuda Grass-Broomsedge
- Formerly Cultivated Grassland
- Lowland Grass Habitat**
- Poor Condition Grassland
- Formerly Cultivated Grassland
- Cultivated Land**
- Bermuda Grass (Pasture)
- Patterned Ground**

Mounds are a conspicuous feature of some of the lowland areas. They are often weed-covered and show some rodent activity, but were probably caused by swelling and shrinkage of soils. Maximum relief of mounds is about 2 feet.

Where recently cultivated, mounds are difficult to distinguish from intermound areas. Mounds may be present on as much as one-half of the relatively level, lowland area.

Reservoir

Basin Boundary



From Branson, 1978

Base from U.S. Geological Survey
 Lehigh 1:24,000, 1957
 Olney 1:24,000, 1969

Figure 3.--Vegetation map of the Coal Creek study basin.

DATA COLLECTION

Data collection began in May 1977 with a field reconnaissance of the area. In October 1977, a stream-gaging station was established at Coal Creek near Lehigh. Continuous data were collected through January 1982 (for methods see Buchanan and Somers, 1968 and 1969; Carter and Davidian, 1968). Periodic stream-discharge measurements were made at two upstream tributaries of Coal Creek.

Water-quality and suspended-sediment sampling began in June 1978 (for methods see Stevens and others, 1975; Guy, 1969; Guy and Norman, 1970). Water-quality samples were collected periodically. Suspended-sediment samples were collected daily during low flow and more frequently during periods of rapidly changing stream stage.

A climatological station was established in 1978 near the center of the area (fig. 2). Data acquired at the station were air temperature, solar radiation, relative humidity, wind speed, wind direction, and precipitation. Additional weighing-type precipitation gages were operated at three other locations.

Soil moisture was measured at 12 locations (fig. 2) representing different soil and cover types. Soil moisture in percent by volume was measured with a neutron depth-moisture gage. The frequency of measurement varied, depending on the seasonal distribution of precipitation. Five of the soil moisture measurement sites were located near the climatological station.

All accessible wells in the study area were measured one or more times. Depth to water, specific conductance, pH, temperature, dissolved iron, dissolved manganese, sulfate and chloride were the properties and constituents measured most commonly. Water analysis for a "complete" suite of constituents was performed for several wells. One well was continuously monitored with a water-level recorder. Water level at an additional well was measured periodically.

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DATA

A summary of the data-collection network is presented in table 1. Station location, data type and sampling frequency are listed. As a convenience to the reader in locating sites in figure 2, site numbers have been assigned to Coal Creek basin measurement stations. Each site is also identified by either the USGS downstream number or a latitude and longitude number. Data collection sites which were measured infrequently or are located outside the Coal Creek basin (tables 32, 35, 36, and 37) are assigned only a location number based on the grid system of latitude and longitude or township and range. In the township and range method used in this report the quarter subdivisions of the section are indicated by letters as in the example illustrated in figure 4. The location of the dot (fig. 4) is 01S-10E-27 BAB 1. The final digit (1) is the sequential number of the site within the smallest fractional subdivision.

Precipitation data are presented in tables 2-5. Temperature and solar radiation data are in tables 6-8. Tables 9-21 present all data from the soil moisture measurement sites. Stream discharge data are in tables 22-23. Quality of surface water data are covered in tables 24-30. Table 31 presents suspended-sediment data. Data for ground-water quality and water levels are in tables 32-35. Tables 36-37 contain surface-mine pond data. The Coal Creek near Lehigh streamflow response to precipitation is shown graphically in figures 5-12 for selected time periods.

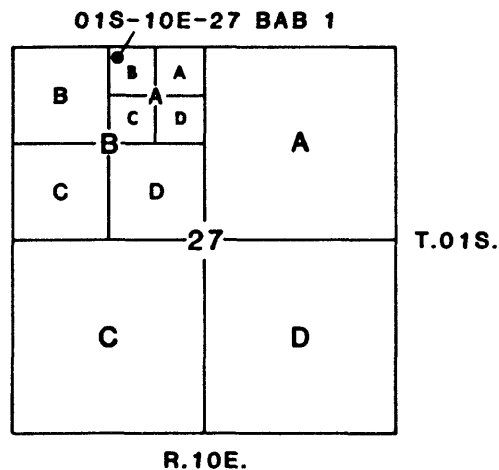


Figure 4.--Example of the township and range numbering system.

Table 1. Coal Creek basin data-collection network

Station identification (Downstream order or latitude-longitude number)	Site number	Data type	Collection frequency
07332900	1	Stream discharge Suspended sediment Physical parameters Chemical quality	15 minute Daily and storm Hourly Monthly
342619096144201	2	Water level	Hourly
342621096160501	3	Soil moisture	Semimonthly to monthly
342651096142501	4	Soil moisture	Semimonthly to monthly
342652096152202	5	Stream discharge Suspended sediment Physical parameters Chemical quality	Quarterly Quarterly Quarterly Quarterly
342658096153001	6	Soil moisture	Semimonthly to monthly
342659096135701	7	Soil moisture	Semimonthly to monthly
342659096135702	8	Soil moisture	Semimonthly to monthly
342700096135801	9	Precipitation	5 minute
342701096153001	10	Soil moisture	Semimonthly to monthly
342705096152601	11	Precipitation Solar radiation Wind direction Wind speed Air temperature Relative humidity	5 minute Hourly Hourly Hourly Hourly Hourly
342706096152901	12	Soil moisture	Semimonthly to monthly
342707096135701	13	Soil moisture	Semimonthly to monthly
342708096152901	14	Soil moisture	Semimonthly to monthly
342709096152901	15	Soil moisture	Semimonthly to monthly
342714096160401	16	Soil moisture	Semimonthly to monthly
342723096160101	17	Water level	Weekly to monthly

Table 1. Coal Creek basin data-collection network--Continued

Station identification (Downstream order or latitude-longitude number)	Site number	Data type	Collection frequency
342743096154701	18	Stream discharge Suspended sediment Physical parameters Chemical quality	Quarterly Quarterly Quarterly Quarterly
342744096170401	19	Soil moisture	Semimonthly to monthly
342758096164401	20	Precipitation	5 minute
342823096153201	21	Precipitation	5 minute
342833096164601	22	Soil moisture	Semimonthly to monthly

Table 2.--Total daily precipitation, in inches, at site 9

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	0.60	0.00	0.00	0.00
2	---	---	---	---	---	---	---	---	.00	.00	.00	.00
3	---	---	---	---	---	---	---	---	.00	.00	.00	.00
4	---	---	---	---	---	---	---	---	.00	.00	.40	.00
5	---	---	---	---	---	---	---	---	.20	.00	.20	.00
6	---	---	---	---	---	---	---	---	.30	.00	.00	.00
7	---	---	---	---	---	---	---	---	.20	.00	.00	.00
8	---	---	---	---	---	---	---	---	.30	.00	.00	.00
9	---	---	---	---	---	---	---	---	.00	.00	.00	.40
10	---	---	---	---	---	---	---	---	.00	.00	.00	.10
11	---	---	---	---	---	---	---	---	.00	.00	.00	.00
12	---	---	---	---	---	---	---	---	.00	.00	.00	.10
13	---	---	---	---	---	---	---	---	.00	.00	.00	.00
14	---	---	---	---	---	---	---	---	.00	.00	.00	.00
15	---	---	---	---	---	---	---	---	.00	.00	.00	.00
16	---	---	---	---	---	---	---	---	.00	.00	.00	.00
17	---	---	---	---	---	---	---	0.00	.00	.00	.00	.00
18	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
19	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
20	---	---	---	---	---	---	---	.20	.00	.00	.00	.00
21	---	---	---	---	---	---	---	.30	.50	.00	.00	.00
22	---	---	---	---	---	---	---	.10	.00	1.80	.00	.60
23	---	---	---	---	---	---	---	.00	.00	.20	.00	.00
24	---	---	---	---	---	---	---	.00	.00	1.50	.00	.00
25	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
26	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
27	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
28	---	---	---	---	---	---	---	2.30	.00	.00	.00	.00
29	---	---	---	---	---	---	---	.00	.00	.00	.10	.00
30	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
31	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
TOTAL	---	---	---	---	---	---	---	2.9	2.1	3.5	0.7	1.2

Water year October 1977 to September 1978

Table 2.--Total daily precipitation, in inches, at site 9 ---Continued

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	0.10	0.10	0.60	0.00	0.00	0.00
2	.00	.00	.00	.00	.00	.40	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.10	.00	.10	.10	.20	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.10	.00	.10	.10	.00	.00	.00	.00	1.20	.00	.00	.00
6	.00	.80	.40	.00	.50	.00	.00	.00	.00	.10	.00	.00
7	.00	.00	.00	.00	.20	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.20	.00	.00	.10	.00	.00	.00	.30	.00
10	.00	.00	.00	.00	.00	.00	.20	.20	.00	.20	.00	.00
11	.00	.00	.00	.00	.00	.00	.70	.70	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	3.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00
16	.00	1.40	.00	.00	.00	.00	.00	.00	.00	.30	.00	.00
17	.00	.10	.00	.00	.00	.10	.00	.00	.00	1.30	.00	.00
18	.00	.00	.00	1.10	.00	.40	.80	.00	.00	.00	.00	.00
19	.00	.00	.00	.60	.00	3.80	.00	.00	.00	.00	.40	.30
20	.00	.10	.10	.00	.10	.00	.10	1.50	.00	.00	.10	.60
21	.00	.00	.00	.00	.00	.00	.00	1.10	.00	.00	1.30	.00
22	.00	.10	.00	.00	.20	.60	.00	2.50	.00	.00	.40	.00
23	.40	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	1.30	.00	.00	.00	.00	.00	.00	.00
25	.00	.40	.00	.50	.00	.00	.00	.00	.40	.00	.00	.00
26	.00	1.00	.00	.00	.00	.00	.00	.00	.00	.40	.10	.00
27	.00	.00	.00	.00	.30	.00	.00	.00	.00	.10	.40	.00
28	.00	.00	.00	.00	.00	.00	.00	1.60	.00	.00	.00	.00
29	.00	.00	.00	.10	.00	.20	.00	.00	.00	.00	.00	.00
30	.00	.00	.10	.00	.00	.20	.00	.00	.00	.00	.00	.00
31	.00	.00	.30	.00	.00	.20	.00	.00	.00	.00	1.70	.00
TOTAL	0.5	6.9	1.0	2.7	2.6	6.0	2.1	7.9	2.2	2.4	4.8	0.9

Water year October 1978 to September 1979

Table 2.--Total daily precipitation, in inches, at site 9 --Continued

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	.10	.00	.00	1.10	1.20	.00	.00	.00	.00
3	.00	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.40	.00	.10	.00	.00	.00	.00	.20
8	.00	.20	.00	.00	1.20	.00	.00	.00	.20	.00	.00	.00
9	.00	.00	.00	.00	.10	.00	.00	.00	.10	.00	.00	.00
10	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.40	.00	.00	.00	.30	.00	.00	.00	.00	.00
13	.00	.00	.40	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	2.10	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.20	.20	.00	.00	.00	.00	.00
17	.70	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	1.70	.00	.00	.00	.00
19	.00	.00	.00	.60	.00	.10	.10	.00	.00	.00	.00	.00
20	.00	.00	.00	.30	.00	.00	.00	.10	2.20	.00	.00	.00
21	.90	.40	.00	.80	.00	.00	.00	.20	.00	.10	.00	.00
22	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.70	.00	.00	.10	.00	.00	.00	.00	.00	.10
24	.00	.00	.00	.00	.00	.00	.20	.00	.00	.00	.00	.10
25	.00	.00	.00	.00	.00	.00	1.00	.00	.00	.00	.00	.60
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.40	.00	.00
27	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.20	.00
28	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	1.60	6.20
29	.00	.00	.00	.10	.00	.00	.00	2.90	.00	.00	.00	1.60
30	1.50	.10	.00	.10	.00	.00	.90	1.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	3.2	0.7	1.6	2.1	1.7	0.6	4.1	9.2	2.5	0.5	1.8	8.8

Water year October 1979 to September 1980

Table 2.--Total daily precipitation, in inches, at site 9 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.10	0.20	0.20	0.00	0.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.30	.00	.00	.30
3	.00	.00	.10	.00	.00	1.00	.30	.00	.50	1.40	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.20	.00	.00
5	.00	.00	.10	.00	.00	.00	.00	.00	.70	.00	.00	.00
6	.20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.10	.00	.10	.00	.00	.00	.00	.70	.50	.00
8	.00	.00	2.30	.00	.00	.00	.00	.30	.00	.00	.00	.00
9	.00	.00	.00	.00	.80	.00	.00	2.90	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.50
14	.50	.00	.00	.00	.00	.00	.20	.00	.30	.00	.00	.00
15	.00	.00	.00	.00	.00	.10	.00	.10	1.10	.00	.00	.00
16	.20	.80	.00	.00	.00	.00	.00	.20	.10	.00	1.10	.00
17	.80	.60	.00	.00	.00	.00	.00	.00	.00	.00	1.00	.00
18	.00	.00	.00	.10	.00	.00	.80	.00	.00	.00	.00	.00
19	.00	.00	.00	.20	.00	.00	.10	.00	.00	.00	.00	.00
20	.00	.00	.00	.30	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.50	.00	.00	.00	.00	.00
22	.00	.10	.00	.00	.00	.00	.70	.00	.00	.00	.00	.00
23	.40	.10	.00	.00	.00	.00	.00	1.50	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.40	.00
27	1.20	.00	.00	.00	.20	.00	.00	.00	.00	.00	1.70	1.10
28	.00	.00	.00	.00	2.30	.60	.60	.00	.00	3.20	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.30	.00	.10	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.50	.00	.00	.00	.00
31	.00	---	.00	.20	---	.00	---	.00	---	.00	.00	---
TOTAL	3.3	1.6	2.7	0.8	3.4	1.8	3.2	6.0	3.2	5.8	5.7	1.9

Water year October 1980 to September 1981

Table 2.--Total daily precipitation, in inches, at site 9 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---
2	.00	.00	.00	---	---	---	---	---	---	---	---	---
3	.00	.00	.00	---	---	---	---	---	---	---	---	---
4	.00	.00	.00	---	---	---	---	---	---	---	---	---
5	.00	.00	.00	---	---	---	---	---	---	---	---	---
6	.30	.00	.00	---	---	---	---	---	---	---	---	---
7	.30	.00	.10	---	---	---	---	---	---	---	---	---
8	.00	1.80	.00	---	---	---	---	---	---	---	---	---
9	.10	.00	.00	---	---	---	---	---	---	---	---	---
10	.00	.00	.00	---	---	---	---	---	---	---	---	---
11	.00	.00	.00	---	---	---	---	---	---	---	---	---
12	1.90	.00	.00	---	---	---	---	---	---	---	---	---
13	11.70	.00	.20	---	---	---	---	---	---	---	---	---
14	.00	.00	.00	---	---	---	---	---	---	---	---	---
15	5.10	.10	.00	---	---	---	---	---	---	---	---	---
16	1.20	.00	.00	---	---	---	---	---	---	---	---	---
17	.80	.00	.00	---	---	---	---	---	---	---	---	---
18	.00	.10	.00	---	---	---	---	---	---	---	---	---
19	.00	.00	.00	---	---	---	---	---	---	---	---	---
20	.00	.00	.00	---	---	---	---	---	---	---	---	---
21	.40	.00	.00	---	---	---	---	---	---	---	---	---
22	.10	.00	.00	---	---	---	---	---	---	---	---	---
23	.00	.00	.00	---	---	---	---	---	---	---	---	---
24	.00	.00	.00	---	---	---	---	---	---	---	---	---
25	.10	.00	.00	---	---	---	---	---	---	---	---	---
26	.00	.00	.00	---	---	---	---	---	---	---	---	---
27	.00	.00	.00	---	---	---	---	---	---	---	---	---
28	.00	.00	.00	---	---	---	---	---	---	---	---	---
29	.00	.80	.00	---	---	---	---	---	---	---	---	---
30	.00	.80	.00	---	---	---	---	---	---	---	---	---
31	2.10	---	---	---	---	---	---	---	---	---	---	---
TOTAL	24.1	3.6	0.3	---	---	---	---	---	---	---	---	---

Water year October 1981 to September 1982

Table 3.--Total daily precipitation, in inches, at site 11

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	4.64	0.00	0.00	0.00	0.25	0.00	0.00	0.50	0.00	0.00	0.00
2	.00	.00	.00	.00	.00	.04	.00	.49	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	1.80	1.11	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00	.40	.00
5	.00	.00	.00	.00	.00	.00	.13	.10	.30	.00	.20	.00
6	.00	.00	.00	.00	.00	.07	.00	.10	.40	.00	.00	.00
7	.00	.00	.00	.00	.28	1.35	.00	.00	.10	.00	.00	.00
8	.00	.02	.00	.00	.05	.06	.00	.00	.30	.00	.00	.00
9	.00	1.03	.00	.00	.30	.00	.75	.00	.00	.00	.00	.50
10	.00	.00	.00	.00	.00	.00	1.03	.00	.00	.00	.00	.00
11	.15	.00	.00	.41	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.45	2.05	.08	.00	.00	.00	.00	.00	.10
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.05	.18	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.63	.02	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.43	.00	.00	.50	.00	.00	.00	.00
18	.00	.00	.00	.10	.00	.00	.00	.00	.10	.00	.00	.00
19	.00	.00	.00	.07	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	1.02	.00	.20	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.03	.00	.10	.60	.00	.00	.00
22	.48	.00	.00	.00	.00	.05	.15	.10	.00	1.10	.00	.70
23	.01	.00	.00	.00	.00	2.98	.00	.00	.00	.20	.00	.00
24	.00	.00	.00	.05	.00	.02	.00	.00	.00	.30	.00	.00
25	.00	.00	.00	.20	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.20	.00	.00	.10	.00
27	.00	.00	.00	.00	.15	.00	.00	.00	.00	.00	.00	.00
28	.05	.00	.00	.00	.04	.00	.00	2.30	.00	.00	.00	.00
29	.00	.00	.27	.00	.00	.00	.00	.00	.00	.00	.00	.00
30	.35	.50	.00	.00	.00	.00	.39	.00	.00	.00	.00	.00
31	.00	.00	.01	.02	.00	.00	.41	.00	.00	.00	.00	.00
TOTAL	1.04	6.19	0.28	1.98	3.50	5.95	4.69	5.20	2.3	1.6	0.7	1.3

Water year October 1977 to September 1978

Table 3.---Total daily precipitation, in inches, at site 11 --Continued

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	0.10	0.10	0.00	0.00	0.00	0.00
2	.00	.00	.00	.00	.00	.40	.00	.00	.70	.00	.40	.00
3	.00	.00	.00	.10	.00	.00	.10	.10	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.20	.00	.00	.00	.00	.00	.00	.00	1.20	.00	.00	.00
6	.00	.70	.30	.00	.50	.00	.00	.00	.00	.10	.00	.00
7	.00	.00	.00	.00	.20	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00
9	.10	.00	.00	.20	.00	.00	.20	.00	.10	.00	.40	.00
10	.00	.00	.00	.00	.00	.00	.40	.20	.10	.30	.00	.00
11	.00	.00	.00	.00	.00	.00	.80	.60	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	2.60	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00
16	.00	1.20	.00	.00	.00	.00	.00	.00	.00	.60	.00	.00
17	.00	.10	.00	.00	.00	.20	.00	.00	.00	1.90	.00	.00
18	.00	.00	.00	1.00	.00	.50	.90	.00	.00	.40	.00	.00
19	.00	.00	.10	.60	.00	3.50	.00	.00	.00	.00	.50	.50
20	.00	.10	.00	.00	.00	.00	.00	1.60	.00	.00	.10	.60
21	.00	.00	.00	.00	.00	.00	.00	1.20	.00	.00	1.20	.00
22	.30	.10	.00	.00	.20	.70	.00	2.60	.00	.00	.30	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	1.30	.00	.00	.00	.00	.00	.00	.00
25	.00	.50	.00	.50	.00	.00	.00	.00	.50	.00	.00	.00
26	.00	1.00	.00	.00	.00	.00	.00	.00	.00	.30	.20	.00
27	.00	.00	.00	.00	.30	.00	.00	.10	.00	.20	.40	.00
28	.00	.00	.00	.00	.00	.00	.10	1.90	.00	.00	.00	.00
29	.00	.00	.00	.10	---	.20	.00	.00	.00	.00	.00	.00
30	.00	.00	.10	.00	---	.20	.00	.00	.00	.00	.00	.00
31	.00	---	.30	.00	---	.20	---	.00	---	.00	3.20	---
TOTAL	0.6	6.3	0.8	2.6	2.6	5.9	2.7	8.4	2.6	3.8	6.8	1.2

Water year October 1978 to September 1979

Table 3.--Total daily precipitation, in inches, at site 11 --Continued

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	.20	.00	.00	1.30	1.10	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.40	.00	.00	.00	.00	.00	.00	.00
8	.00	.20	.00	.00	1.20	.00	.00	.00	.00	.00	.00	.00
9	.00	.10	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.10	.00	.00	.10	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.10	.10	.00	.00	.00	.00	.00
12	.00	.00	.40	.00	.00	.00	.40	.00	.00	.00	.00	.00
13	.00	.00	.30	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.10	.00	.00	.00	2.10	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.20	.00	.00	.00	.00	.00	.10
17	.80	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	.00
18	.00	.00	.00	.00	.00	.00	.10	1.70	.00	.00	.00	.00
19	.00	.00	.00	.80	.00	.00	.10	.00	.00	.00	.00	.00
20	.00	.00	.00	.20	.10	.10	.00	.10	2.10	.00	.00	.00
21	.80	.30	.00	.90	.00	.00	.00	.20	.00	.00	.00	.00
22	.10	.00	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.70	.00	.00	.10	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.30	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	1.10	.00	.00	.00	.00	.80
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.50	.00	.10
27	.00	.00	.00	.10	.00	.30	.00	.00	.00	.00	.10	6.70
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.30	1.50
29	.00	.00	.00	.10	.00	.00	.00	3.20	.00	.00	.00	.00
30	1.80	.00	.00	.10	---	.00	.70	1.30	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	3.5	0.6	1.5	2.5	1.9	0.9	4.1	9.7	2.2	0.5	1.8	9.2

Water year October 1979 to September 1980

Table 3.--Total daily precipitation, in inches, at site 11 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.10	0.40	0.10	0.00	0.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.30	.00	.00	.30
3	.00	.00	.10	.00	.00	1.20	.30	.00	.40	1.50	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.10	.20	.00	.00
5	.00	.00	.10	.00	.00	.00	.00	.00	1.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.40	.00	.00
7	.00	.00	.10	.00	.00	.20	.00	.00	.00	.50	.50	.00
8	.00	.00	2.70	.00	.00	.00	.00	.30	.00	.00	.00	.00
9	.00	.00	.00	.00	.80	.00	.00	3.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.50
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00
14	.10	.00	.00	.00	.00	.00	.30	.00	.30	.00	.00	.00
15	.00	.00	.00	.00	.00	.10	.00	.00	1.20	.00	.00	.00
16	.30	.00	.00	.00	.00	.00	.00	.20	.20	.00	.90	.00
17	.70	.00	.00	.00	.00	.00	.00	.00	.10	.00	1.10	.00
18	.00	.00	.00	.00	.00	.00	.60	.00	.00	.00	.00	.00
19	.00	.00	.00	.20	.00	.00	.10	.00	.00	.00	.00	.00
20	.00	.00	.00	.20	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.10	.00	.00	.40	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.80	.00	.00	.00	.00	.00
23	.40	.00	.00	.00	.00	.00	.00	1.80	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00	1.50	.00
27	1.20	.00	.00	.00	.10	.00	.00	.00	.00	.00	2.00	1.00
28	.00	.00	.00	.00	2.50	.70	.60	.00	.00	2.60	.00	.00
29	.00	.00	.00	.00	---	.00	.10	.20	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.50	.00	.00	.00	.00
31	.00	---	.00	.30	---	.00	---	.00	---	.00	.00	---
TOTAL	2.7	0.1	3.1	0.8	3.4	2.2	3.2	6.3	4.0	5.3	6.1	1.8

Water year October 1980 to September 1981

Table 3.--Total daily precipitation, in inches, at site 11 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---
2	.00	.00	0.00	---	---	---	---	---	---	---	---	---
3	.00	.00	0.00	---	---	---	---	---	---	---	---	---
4	.00	.00	0.00	---	---	---	---	---	---	---	---	---
5	.00	.00	0.00	---	---	---	---	---	---	---	---	---
6	.30	.00	0.00	---	---	---	---	---	---	---	---	---
7	.40	.00	0.00	---	---	---	---	---	---	---	---	---
8	.00	1.70	0.00	---	---	---	---	---	---	---	---	---
9	.10	.10	0.00	---	---	---	---	---	---	---	---	---
10	.00	.10	0.00	---	---	---	---	---	---	---	---	---
11	.10	.00	---	---	---	---	---	---	---	---	---	---
12	2.80	.00	---	---	---	---	---	---	---	---	---	---
13	11.80	.00	---	---	---	---	---	---	---	---	---	---
14	.00	.00	---	---	---	---	---	---	---	---	---	---
15	3.40	.10	---	---	---	---	---	---	---	---	---	---
16	1.10	.00	---	---	---	---	---	---	---	---	---	---
17	.80	.00	---	---	---	---	---	---	---	---	---	---
18	.00	.00	---	---	---	---	---	---	---	---	---	---
19	.00	.00	---	---	---	---	---	---	---	---	---	---
20	.00	.00	---	---	---	---	---	---	---	---	---	---
21	.80	.00	---	---	---	---	---	---	---	---	---	---
22	.10	.00	---	---	---	---	---	---	---	---	---	---
23	.00	.00	---	---	---	---	---	---	---	---	---	---
24	.00	.00	---	---	---	---	---	---	---	---	---	---
25	.10	.10	---	---	---	---	---	---	---	---	---	---
26	.00	.00	---	---	---	---	---	---	---	---	---	---
27	.00	.00	---	0.00	---	---	---	---	---	---	---	---
28	.00	.00	---	.00	---	---	---	---	---	---	---	---
29	.00	.90	---	.00	---	---	---	---	---	---	---	---
30	.00	.80	---	4.30	---	---	---	---	---	---	---	---
31	2.30	---	---	.20	---	---	---	---	---	---	---	---
TOTAL	24.1	3.8	0	4.5	---	---	---	---	---	---	---	---

Water year October 1981 to September 1982

Table 4.--Total daily precipitation, in inches, at site 20

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	1.60	0.00	0.00	0.00
2	---	---	---	---	---	---	---	---	.00	.00	.00	.00
3	---	---	---	---	---	---	---	---	.00	.00	.00	.00
4	---	---	---	---	---	---	---	---	.00	.00	.50	.00
5	---	---	---	---	---	---	---	---	.30	.00	.20	.10
6	---	---	---	---	---	---	---	---	.60	.00	.00	.00
7	---	---	---	---	---	---	---	---	.10	.00	.00	.00
8	---	---	---	---	---	---	---	---	.30	.00	.00	.00
9	---	---	---	---	---	---	---	---	.00	.00	.00	.60
10	---	---	---	---	---	---	---	---	.00	.00	.00	.00
11	---	---	---	---	---	---	---	---	.00	.00	.00	.00
12	---	---	---	---	---	---	---	---	.00	.00	.00	.70
13	---	---	---	---	---	---	---	---	.10	.00	.00	.00
14	---	---	---	---	---	---	---	---	.00	.00	.00	.00
15	---	---	---	---	---	---	---	---	.00	.00	.00	.00
16	---	---	---	---	---	---	---	---	.00	.00	.00	.00
17	---	---	---	---	---	---	---	---	.00	.00	.00	.00
18	---	---	---	---	---	---	---	---	.00	.00	.00	.00
19	---	---	---	---	---	---	---	---	.00	.00	.00	.00
20	---	---	---	---	---	---	---	---	.00	.00	.00	.00
21	---	---	---	---	---	---	---	---	.70	.00	.00	.00
22	---	---	---	---	---	---	---	---	.00	.10	.00	.50
23	---	---	---	---	---	---	---	0.00	.00	.10	.00	.00
24	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
25	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
26	---	---	---	---	---	---	---	.00	.00	.00	.10	.00
27	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
28	---	---	---	---	---	---	---	2.60	.00	.00	.00	.00
29	---	---	---	---	---	---	---	.00	.00	.00	.10	.00
30	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
31	---	---	---	---	---	---	---	.00	---	.00	.00	---
TOTAL	---	---	---	---	---	---	---	2.6	3.7	0.2	0.9	1.9

Water year October 1977 to September 1978

Table 4.--Total daily precipitation, in inches, at site 20 --Continued

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	0.10	0.10	0.00	0.00	0.00	0.00
2	.00	.00	.00	.00	.00	.40	.00	.00	.30	.00	.70	.00
3	.00	.00	.00	.10	.00	.10	.10	.30	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.10	.00	.00	.00	.00	.00	.00	.00	1.10	.00	.00	.00
6	.00	.70	.50	.00	.40	.00	.00	.00	.00	.10	.00	.00
7	.00	.00	.00	.00	.30	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.10	.00	.00	.00	.10	.00	.00	.00
9	.00	.00	.00	.20	.00	.00	.10	.00	.10	.00	.10	.00
10	.00	.00	.00	.00	.00	.00	.50	.10	.00	.40	.00	.00
11	.00	.00	.00	.00	.00	.00	.60	.60	.00	.00	.00	.00
12	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	2.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	1.30	.00	.00	.00	.00	.00	.00	.00	.50	.00	.00
17	.00	.10	.00	.00	.00	.10	.00	.00	.00	.60	.00	.00
18	.00	.00	.00	1.00	.00	.70	.80	.00	.00	.20	.00	.00
19	.00	.00	.00	.50	.00	3.20	.00	.00	.00	.00	.30	.30
20	.00	.00	.00	.10	.10	.00	.10	1.30	.00	.00	.20	.60
21	.00	.00	.00	.00	.00	.00	.00	1.10	.00	.00	1.00	.00
22	.00	.20	.00	.00	.30	.80	.00	1.50	.00	.00	.40	.00
23	.40	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	1.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.40	.00	.40	.10	.00	.00	.00	.70	.00	.00	.00
26	.00	1.00	.00	.10	.00	.00	.00	.00	.00	.30	.60	.00
27	.00	.00	.00	.00	.30	.00	.00	.10	.00	.10	.30	.00
28	.00	.00	.00	.00	.00	.00	.20	1.30	.00	.00	.00	.00
29	.00	.00	.00	.10	.00	.10	.00	.00	.00	.00	.00	.00
30	.00	.00	.10	.00	.00	.20	.00	.00	.00	.00	.00	.00
31	.00	.00	.30	.00	.00	.20	.00	.00	.00	.00	2.80	.00
TOTAL	0.5	5.8	0.9	2.5	2.6	5.8	2.5	6.4	2.3	2.2	6.4	0.9

Water year October 1978 to September 1979

Table 4.---Total daily precipitation, in inches, at site 20 ---Continued

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	0.10	0.00	0.00	0.00	0.00
2	.00	.00	.00	.10	.00	.10	1.40	.70	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.40	.00	.00	.00	.00	.00	.00	.00
8	.00	.10	.00	.00	1.00	.00	.00	.00	.20	.00	.00	.00
9	.00	.10	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.20	.00	.00	.00	.30	.00	.00	.00	.00	.00
13	.00	.00	.50	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	1.90	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00	.20
17	.60	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00
18	.00	.10	.00	.00	.00	.00	.00	.90	.00	.00	.00	.00
19	.00	.00	.00	.70	.00	.10	.00	.00	.00	.00	.00	.00
20	.00	.10	.00	.30	.00	.00	.00	.20	2.50	.00	.00	.00
21	.80	.30	.00	.80	.00	.00	.00	.30	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.60	.00	.00	.10	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.60	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	1.10	.00	.00	.00	.00	.60
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.70	.00	.00
27	.00	.00	.00	.00	.00	.20	.00	.00	.00	.00	.20	7.00
28	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.30	1.30
29	.00	.00	.00	.00	.00	.00	.00	2.00	.00	.00	.00	.10
30	1.90	.00	.00	.10	.00	.00	.50	1.40	.00	.00	.00	.00
31	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
TOTAL	3.3	0.7	1.4	2.1	1.5	0.8	4.0	7.5	2.7	0.7	0.5	9.2

Water year October 1979 to September 1980

Table 4.--Total daily precipitation, in inches, at site 20 --Continued

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	0.10	0.50	0.10	0.00	0.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.30	.00	.00	.30
3	.00	.00	.00	.00	.00	1.20	.50	.00	.70	1.70	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.10	.00	.20	.00	.00
5	.00	.00	.10	.00	.00	.00	.00	.00	1.20	.00	.00	.00
6	.10	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00	.00
7	.00	.00	.10	.00	.00	.20	.00	.00	.00	.60	.70	.00
8	.00	.00	2.50	.00	.00	.00	.00	.30	.00	.00	.00	.00
9	.00	.00	.00	.00	.80	.00	.00	2.60	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.50
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00
14	.20	.00	.00	.00	.00	.00	.20	.00	.30	.00	.00	.00
15	.00	.00	.00	.00	.00	.10	.00	.10	.80	.00	.00	.00
16	.40	.80	.00	.00	.00	.00	.00	.10	.10	.00	.70	.00
17	.70	.60	.00	.00	.00	.10	.00	.00	.00	.00	.60	.00
18	.00	.00	.00	.00	.00	.00	.50	.00	.00	.00	.00	.00
19	.00	.00	.00	.20	.00	.00	.30	.00	.00	.00	.00	.00
20	.00	.00	.00	.20	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.10	.00	.00	.20	.00	.00	.00	.00	.00
22	.00	.10	.00	.00	.00	.00	.50	.00	.00	.00	.00	.00
23	.40	.10	.00	.00	.00	.00	.00	1.80	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00
26	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00	.40	.00
27	1.10	.00	.00	.00	.20	.00	.00	.10	.00	.00	2.00	.10
28	.00	.00	.00	.00	2.50	.60	.40	.00	.00	2.70	.00	.00
29	.00	.00	.00	.00	---	.10	.00	.20	.00	.10	.00	.00
30	.00	.10	.00	.00	---	.00	.00	.80	.00	.00	.00	.00
31	.00	---	.00	.20	---	.00	---	.00	---	.00	.00	---
TOTAL	2.9	1.7	2.7	0.7	3.6	2.3	2.6	6.4	3.9	5.5	5.5	0.9

Water year October 1980 to September 1981

Table 4.--Total daily precipitation, in inches, at site 20 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---
2	.00	.00	.00	---	---	---	---	---	---	---	---	---
3	.00	.00	.00	---	---	---	---	---	---	---	---	---
4	.00	.00	.00	---	---	---	---	---	---	---	---	---
5	.00	.00	.00	---	---	---	---	---	---	---	---	---
6	.30	.00	.00	---	---	---	---	---	---	---	---	---
7	.30	.00	.00	---	---	---	---	---	---	---	---	---
8	.00	1.60	.00	---	---	---	---	---	---	---	---	---
9	.10	.00	.00	---	---	---	---	---	---	---	---	---
10	.00	.00	.00	---	---	---	---	---	---	---	---	---
11	.10	.00	.00	---	---	---	---	---	---	---	---	---
12	2.20	.00	.10	---	---	---	---	---	---	---	---	---
13	12.20	.00	.20	---	---	---	---	---	---	---	---	---
14	.00	.00	.00	---	---	---	---	---	---	---	---	---
15	2.90	.10	.00	---	---	---	---	---	---	---	---	---
16	1.10	.00	.00	---	---	---	---	---	---	---	---	---
17	1.20	.00	.00	---	---	---	---	---	---	---	---	---
18	.00	.00	.00	---	---	---	---	---	---	---	---	---
19	.00	.00	.00	---	---	---	---	---	---	---	---	---
20	.00	.00	.00	---	---	---	---	---	---	---	---	---
21	1.00	.00	.00	---	---	---	---	---	---	---	---	---
22	.20	.00	.00	---	---	---	---	---	---	---	---	---
23	.00	.00	.00	---	---	---	---	---	---	---	---	---
24	.00	.00	.00	---	---	---	---	---	---	---	---	---
25	.10	.00	.00	---	---	---	---	---	---	---	---	---
26	.00	.00	.00	---	---	---	---	---	---	---	---	---
27	.00	.00	.00	---	---	---	---	---	---	---	---	---
28	.00	.00	.00	---	---	---	---	---	---	---	---	---
29	.00	1.00	.00	---	---	---	---	---	---	---	---	---
30	.00	.80	.00	---	---	---	---	---	---	---	---	---
31	2.20	---	---	---	---	---	---	---	---	---	---	---
TOTAL	23.9	3.5	0.3	---	---	---	---	---	---	---	---	---

Water year October 1981 to September 1982

Table 5.--Total daily precipitation, in inches, at site 21

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	0.80	0.00	0.00	0.00
2	---	---	---	---	---	---	---	---	.00	.00	.00	.00
3	---	---	---	---	---	---	---	---	.00	.00	.00	.00
4	---	---	---	---	---	---	---	---	.00	.00	.40	.00
5	---	---	---	---	---	---	---	---	.20	.00	.10	.10
6	---	---	---	---	---	---	---	---	.40	.00	.00	.00
7	---	---	---	---	---	---	---	---	.10	.00	.00	.00
8	---	---	---	---	---	---	---	---	.20	.00	.00	.00
9	---	---	---	---	---	---	---	---	.00	.00	.00	.50
10	---	---	---	---	---	---	---	---	.00	.00	.00	.00
11	---	---	---	---	---	---	---	---	.00	.00	.00	.00
12	---	---	---	---	---	---	---	---	.00	.00	.00	.20
13	---	---	---	---	---	---	---	---	.00	.00	.00	.00
14	---	---	---	---	---	---	---	---	.00	.00	.00	.00
15	---	---	---	---	---	---	---	---	.00	.00	.00	.00
16	---	---	---	---	---	---	---	---	.00	.00	.00	.00
17	---	---	---	---	---	---	---	---	.00	.00	.00	.00
18	---	---	---	---	---	---	---	---	.10	.00	.00	.00
19	---	---	---	---	---	---	---	---	.00	.00	.00	.00
20	---	---	---	---	---	---	---	---	.00	.00	.00	.00
21	---	---	---	---	---	---	---	---	.70	.00	.00	.00
22	---	---	---	---	---	---	---	---	.00	.10	.00	.40
23	---	---	---	---	---	---	---	---	.00	.00	.00	.00
24	---	---	---	---	---	---	---	0.00	.00	.00	.00	.00
25	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
26	---	---	---	---	---	---	---	.10	.00	.00	.00	.00
27	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
28	---	---	---	---	---	---	---	2.30	.00	.00	.00	.00
29	---	---	---	---	---	---	---	.00	.00	.00	.10	.00
30	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
31	---	---	---	---	---	---	---	.00	---	.00	.00	---
TOTAL	---	---	---	---	---	---	---	2.4	2.5	0.2	0.6	1.2

Water year October 1977 to September 1978

Table 5.--Total daily precipitation, in inches, at site 21 --Continued

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	0.10	0.10	0.00	0.00	0.00	0.00
2	.00	.00	.00	.00	.00	.30	.00	.00	.50	.00	.20	.00
3	.00	.00	.00	.10	.00	.10	.20	.30	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	1.20	.00	.00	.00
6	.00	.60	.60	.00	.40	.00	.00	.00	.00	.10	.00	.00
7	.00	.00	.00	.00	.20	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.20	.00	.00	.10	.00	.00	.00	.10	.00
10	.00	.00	.00	.00	.00	.00	.40	.20	.10	.40	.00	.00
11	.00	.00	.00	.00	.00	.00	.70	.60	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	2.20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	1.10	.00	.00	.00	.00	.00	.00	.00	.30	.00	.00
17	.00	.00	.00	.00	.00	.10	.00	.00	.00	1.20	.00	.00
18	.00	.00	.00	.80	.00	.50	.80	.00	.00	.00	.00	.00
19	.00	.00	.00	.50	.00	3.40	.00	.00	.00	.00	.30	.30
20	.00	.10	.00	.10	.10	.00	.00	1.70	.00	.00	.40	.50
21	.00	.00	.00	.00	.00	.00	.00	1.10	.00	.00	1.10	.00
22	.00	.10	.00	.00	.30	.70	.00	1.80	.00	.00	.40	.00
23	.30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.90	.00	.00	.00	.00	.00	.00	.00
25	.00	.20	.00	.40	.00	.00	.00	.00	.70	.00	.00	.00
26	.00	.90	.00	.10	.00	.00	.00	.00	.00	.30	.30	.00
27	.00	.00	.00	.00	.30	.00	.00	.20	.00	.10	.30	.00
28	.00	.00	.00	.00	.00	.00	.20	1.60	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.10	.00	.00	.00	.00	.00	.00
30	.00	.00	.10	.00	---	.10	.00	.00	.00	.00	.00	.00
31	.00	---	.30	.00	---	.20	---	.00	---	.00	2.20	---
TOTAL	0.3	5.4	1.0	2.3	2.2	5.5	2.5	7.6	2.5	2.4	5.3	0.8

Water year October 1978 to September 1979

Table 5.--Total daily precipitation, in inches, at site 21 --Continued

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	1.30	.70	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.10	.00	.50	.00	.00	.00	.00	.00	.00	.00
8	.00	.20	.00	.00	1.00	.00	.00	.00	.20	.00	.00	.00
9	.00	.00	.00	.00	.10	.00	.00	.00	.10	.00	.00	.00
10	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00	.00
12	.00	.00	.30	.00	.00	.10	.30	.00	.00	.00	.00	.00
13	.00	.00	.40	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.10	.00	.00	.00	2.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.20	.00	.00	.00	.00	.00	.20
17	.50	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00
18	.00	.10	.00	.00	.00	.00	.00	1.50	.00	.00	.00	.00
19	.00	.00	.00	.70	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.10	.00	.20	.00	.00	.00	.10	2.10	.00	.00	.00
21	.70	.40	.00	.70	.00	.00	.00	.20	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.60	.00	.00	.10	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.40	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.80	.00	.00	.00	.00	.50
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.60	.00	.00
27	.00	.00	.00	.00	.00	.20	.00	.00	.00	.00	.10	6.80
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.40	1.40
29	.00	.00	.00	.00	.00	.00	.00	2.10	.00	.00	.00	.00
30	1.70	.00	.00	.00	.00	.00	.50	1.30	.00	.00	.00	.00
31	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
TOTAL	2.9	0.8	1.5	1.7	1.6	0.7	3.4	7.9	2.4	0.6	0.5	8.9

Water year October 1979 to September 1980

Table 5.--Total daily precipitation, in inches, at site 21 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.30	0.10	0.00	0.00
2	.00	.00	.10	.00	.00	.00	.00	.00	.30	.00	.00	.30
3	.00	.00	.10	.00	.00	1.10	.40	.00	.50	1.50	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	.00	.00
5	.00	.00	.10	.00	.00	.00	.00	.00	1.00	.00	.00	.00
6	.20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.10	.00	.10	.20	.00	.00	.00	.60	.70	.10
8	.00	.00	2.20	.00	.00	.00	.00	.30	.00	.00	.00	.00
9	.00	.00	.00	.00	.70	.00	.00	3.20	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.50
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00
14	.20	.00	.00	.00	.00	.00	.30	.00	.30	.00	.00	.00
15	.00	.00	.00	.00	.00	.10	.00	.00	.90	.00	.00	.00
16	.50	.80	.00	.00	.00	.00	.00	.10	.10	.00	.80	.00
17	.70	.60	.00	.00	.00	.10	.00	.00	.00	.00	.90	.00
18	.00	.00	.00	.00	.00	.00	.50	.00	.00	.00	.00	.00
19	.00	.00	.00	.30	.00	.00	.20	.00	.00	.00	.00	.00
20	.00	.00	.00	.20	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.10	.00	.00	.20	.00	.00	.00	.00	.00
22	.00	.10	.00	.00	.00	.00	.40	.00	.00	.00	.00	.00
23	.30	.10	.00	.00	.00	.00	.00	1.80	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.30	.00	.00	.00	.00
26	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	1.00	.00	.00	.00	.30	.00	.00	.00	.00	.00	1.60	.20
28	.00	.00	.00	.00	2.60	.60	.40	.00	.00	2.60	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.30	.00	.10	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.60	.00	.00	.00	.00
31	.00	---	.00	.20	---	.00	---	.00	---	.00	.00	---
TOTAL	2.9	1.7	2.6	0.8	3.7	2.1	2.4	6.6	3.4	5.2	6.2	1.1

Water year October 1980 to September 1981

Table 5.--Total daily precipitation, in inches, at site 21 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---
2	.00	.00	.00	---	---	---	---	---	---	---	---	---
3	.00	.00	.00	---	---	---	---	---	---	---	---	---
4	.00	.00	.00	---	---	---	---	---	---	---	---	---
5	.00	.00	.00	---	---	---	---	---	---	---	---	---
6	.30	.00	.00	---	---	---	---	---	---	---	---	---
7	.40	.00	.10	---	---	---	---	---	---	---	---	---
8	.00	1.60	.00	---	---	---	---	---	---	---	---	---
9	.10	.00	.00	---	---	---	---	---	---	---	---	---
10	.00	.10	.00	---	---	---	---	---	---	---	---	---
11	.00	.00	.00	---	---	---	---	---	---	---	---	---
12	2.60	.00	.00	---	---	---	---	---	---	---	---	---
13	12.10	.00	.20	---	---	---	---	---	---	---	---	---
14	.00	.00	.00	---	---	---	---	---	---	---	---	---
15	2.70	.00	.00	---	---	---	---	---	---	---	---	---
16	1.20	.00	.00	---	---	---	---	---	---	---	---	---
17	1.10	.00	.00	---	---	---	---	---	---	---	---	---
18	.00	.10	.00	---	---	---	---	---	---	---	---	---
19	.00	.00	.00	---	---	---	---	---	---	---	---	---
20	.00	.00	.00	---	---	---	---	---	---	---	---	---
21	.80	.00	.00	---	---	---	---	---	---	---	---	---
22	.20	.00	.00	---	---	---	---	---	---	---	---	---
23	.00	.00	.00	---	---	---	---	---	---	---	---	---
24	.00	.00	.00	---	---	---	---	---	---	---	---	---
25	.10	.00	.00	---	---	---	---	---	---	---	---	---
26	.00	.00	.00	---	---	---	---	---	---	---	---	---
27	.00	.00	.00	---	---	---	---	---	---	---	---	---
28	.00	.00	.00	---	---	---	---	---	---	---	---	---
29	.00	.80	.00	---	---	---	---	---	---	---	---	---
30	.00	.80	.00	---	---	---	---	---	---	---	---	---
31	2.00	---	---	---	---	---	---	---	---	---	---	---
TOTAL	23.6	3.4	0.3	---	---	---	---	---	---	---	---	---

Water year October 1981 to September 1982

Table 6.--Daily minimum air temperature, in degrees Celsius, at site 11

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.0	10.5	1.0	-7.5	-1.5	1.0	15.0	13.0	19.0	23.0	21.0	20.0
2	10.5	6.0	1.5	-8.0	-3.0	-2.0	16.0	8.0	17.5	23.0	22.0	21.0
3	8.5	8.0	5.0	-7.5	-4.0	-8.0	17.0	8.0	20.0	22.0	23.0	21.0
4	8.5	12.0	5.0	-2.0	-3.0	-9.0	17.0	8.0	18.5	24.0	20.0	21.5
5	11.5	13.5	-1.0	1.0	-3.0	-5.0	16.0	10.5	19.5	24.0	19.0	21.0
6	15.0	11.5	-6.5	-1.0	-6.5	2.0	16.5	16.0	18.5	23.0	17.5	22.0
7	15.0	11.0	-4.5	-2.5	-6.5	0.5	20.0	15.5	19.0	22.5	17.5	18.0
8	9.5	8.0	-6.0	-7.5	-5.0	-2.0	17.0	12.5	15.5	22.5	18.0	18.5
9	3.5	2.0	-11.5	-12.0	-5.0	-2.0	18.5	8.5	13.5	23.0	19.0	20.0
10	5.0	1.0	-10.0	-11.0	-4.5	-2.0	9.5	9.5	15.5	24.0	18.0	20.5
11	3.0	1.5	-2.0	-7.5	-3.0	-1.0	7.5	19.0	21.5	23.0	20.5	22.5
12	3.5	3.0	4.0	-3.5	-1.0	.5	7.0	16.5	22.5	24.5	22.0	24.0
13	1.0	6.0	2.0	-5.5	-2.5	4.0	8.5	11.0	21.0	25.0	24.0	25.5
14	3.0	10.5	1.0	-7.0	-4.0	3.5	14.5	8.0	19.0	24.5	22.0	24.0
15	3.0	13.5	4.5	-7.0	-3.0	2.0	13.0	13.0	19.0	25.0	26.0	24.0
16	1.0	10.0	6.0	-9.5	-3.5	1.0	17.0	16.5	21.0	22.5	24.5	22.5
17	4.5	5.5	1.5	-12.0	-9.0	5.5	12.0	15.5	23.5	23.0	24.5	23.5
18	8.5	6.0	-1.5	-9.0	-14.5	10.5	9.5	19.0	22.5	24.0	26.0	24.5
19	9.0	12.0	.5	-8.5	-15.0	12.0	6.0	22.5	20.0	22.0	23.5	24.5
20	9.5	10.5	.5	-10.5	-12.0	12.0	4.0	22.0	24.0	22.5	22.5	22.0
21	11.5	3.5	-4.0	-10.5	-9.0	8.0	5.0	20.5	20.0	23.0	23.5	17.5
22	13.5	6.0	-4.5	-11.0	-4.5	9.5	10.5	21.0	20.0	21.5	21.5	15.5
23	12.0	7.5	2.5	-6.5	0	10.0	8.0	19.5	21.5	22.0	20.0	16.5
24	10.5	6.5	1.0	-1.0	2.0	3.0	11.0	18.5	24.5	21.5	21.5	18.0
25	9.5	2.0	-7.0	-3.0	2.0	1.5	8.5	18.0	25.0	22.5	20.5	19.0
26	9.5	-2.0	-8.0	-6.5	2.0	1.0	7.0	19.5	25.5	23.0	23.0	17.5
27	12.0	3.0	-5.0	-7.5	4.0	3.0	8.5	18.5	24.5	21.0	24.0	15.5
28	12.0	5.5	0	-7.5	3.0	8.0	16.5	18.5	21.5	19.5	21.0	14.0
29	12.5	3.5	3.0	-5.5	---	8.5	16.0	18.0	22.0	24.0	22.0	14.0
30	15.5	3.5	3.0	-3.0	---	9.5	15.5	16.0	22.5	26.0	17.5	13.5
31	17.0	---	-1.5	-1.0	---	13.5	---	20.5	---	24.5	16.0	---
MIN	.5	-2.0	-11.5	-12.0	-15.0	-9.0	4.0	8.0	13.5	19.5	16.0	13.5

Water year October 1977 to September 1978

Table 6.--Daily minimum air temperature, in degrees Celsius, at site 11 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.5	9.0	6.5	-13.5	-12.5	1.0	10.5	12.5	17.0	22.0	18.5	20.0
2	18.0	6.5	5.0	-14.0	1.0	8.5	6.5	12.5	17.0	22.5	20.0	19.5
3	10.5	11.0	-5.5	-10.5	-3.5	2.0	7.5	12.5	16.0	24.0	21.5	18.0
4	5.5	11.0	-5.5	-5.0	-5.0	-0.5	4.5	8.5	17.5	22.5	20.5	19.5
5	14.0	10.0	-1.0	-7.5	-4.5	-4.0	3.5	5.0	20.5	21.5	18.0	18.5
6	4.0	6.5	1.0	-7.5	-0.5	-1.5	12.0	12.0	20.5	22.5	19.5	19.5
7	3.5	.5	-4.0	-9.0	-4.5	-7.0	12.0	17.5	22.5	22.0	19.5	19.5
8	9.5	-1.0	-6.0	-12.0	-9.0	.0	11.0	21.5	23.5	21.0	21.0	14.5
9	17.0	2.0	-8.5	-7.0	-13.0	8.5	5.5	20.5	19.5	20.0	19.5	11.5
10	18.0	10.5	-8.5	-0.5	-7.0	1.0	12.0	13.0	13.5	19.0	21.0	13.0
11	14.0	7.5	-7.0	-1.5	.0	-1.5	15.0	9.0	12.0	20.5	15.5	15.5
12	15.5	7.0	-4.5	-2.0	.0	2.5	13.0	7.5	14.5	20.5	14.0	15.0
13	8.5	15.5	-2.5	-11.5	.0	11.0	9.5	9.0	12.0	21.0	14.5	14.5
14	.0	4.5	-3.0	-13.5	7.0	6.0	7.5	13.0	18.5	23.5	22.0	11.0
15	1.5	4.5	-1.5	-10.0	-3.5	6.0	12.5	14.0	18.0	22.0	21.0	8.5
16	6.5	4.5	.5	-0.5	-9.0	7.0	14.0	14.0	19.0	21.5	21.5	6.5
17	5.5	1.5	-5.5	3.0	-8.0	8.0	13.5	15.5	19.5	21.0	21.0	7.5
18	5.5	.0	7.0	3.0	-5.0	17.0	15.0	17.5	21.0	20.5	20.0	12.5
19	7.0	8.5	12.0	8.5	-7.0	12.0	16.5	15.0	23.0	19.5	20.0	17.5
20	6.5	6.0	1.5	1.0	2.0	12.0	18.5	12.5	24.5	20.5	18.5	17.0
21	8.0	4.5	-1.0	-3.0	7.0	12.0	15.5	16.5	23.0	18.5	17.0	15.5
22	18.0	6.5	-2.0	-3.5	11.5	14.0	15.0	16.5	21.5	19.5	16.5	12.5
23	10.0	12.5	5.0	-4.5	5.5	6.0	13.5	14.5	23.5	19.0	18.5	13.5
24	10.0	10.0	-3.0	-8.0	-0.5	3.5	11.0	11.0	21.0	22.5	19.0	13.0
25	14.0	11.0	-4.5	-1.5	-2.5	.5	15.5	10.5	19.5	22.0	19.0	10.0
26	4.5	8.0	-2.5	.0	-2.5	10.0	9.5	14.0	19.5	22.5	19.5	11.5
27	.0	-0.5	-4.0	-6.0	2.5	6.5	6.5	13.5	20.5	22.0	20.5	14.0
28	.5	-2.5	4.5	-9.0	5.0	17.0	3.0	13.0	21.0	21.0	21.5	16.0
29	3.5	3.0	-1.0	-5.5	---	17.5	8.5	16.5	22.0	23.5	20.5	15.5
30	5.0	5.5	-4.5	-10.5	---	14.0	9.0	16.5	21.0	23.0	20.0	13.0
31	8.0	---	-7.5	-14.5	---	8.5	---	16.5	---	21.0	21.0	---
MIN	.0	-2.5	-8.5	-14.5	-13.0	-4.0	3.0	5.0	12.0	18.5	14.0	6.5

Water year October 1978 to September 1979

Table 6.--Daily minimum air temperature, in degrees Celsius, at site 11 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.0	5	-9.0	-6.0	-11.0	-7.5	13.5	16.0	22.5	26.5	24.5	24.0
2	6.0	1.5	-6.0	1.5	-2.0	-10.0	13.0	13.0	23.5	24.5	26.0	22.0
3	10.0	-1.0	-4.0	-3.0	-5.0	-3.0	7.5	12.5	22.0	27.5	27.0	21.0
4	4.5	1.5	-0.5	-3.5	-1.5	1.5	4.5	11.0	21.0	25.0	26.5	21.5
5	2.0	6.0	1.5	-2.0	1.5	-2.0	3.0	11.0	23.0	21.0	25.5	19.5
6	10.5	1.0	.5	-2.0	-1.5	-3.5	12.0	12.5	24.0	20.0	23.5	19.5
7	7.5	-2.5	-4.0	-5.0	.5	11.0	23.0	14.5	24.0	21.0	21.5	20.5
8	18.0	7.0	.0	-7.0	-1.5	4.0	8.5	9.5	20.0	21.5	20.5	20.5
9	3.5	2.5	-0.5	-6.5	-8.0	2.0	8.0	6.0	16.5	21.0	20.5	18.5
10	-1.5	-1.5	6.0	4.0	-14.5	2.0	4.0	15.0	18.5	22.0	21.5	20.5
11	4.5	-4.0	1.5	1.0	-7.5	5.0	7.0	22.5	17.5	21.5	22.5	19.0
12	9.0	-1.0	-2.5	-1.0	-6.0	5.0	4.5	20.0	18.0	22.5	23.5	21.0
13	8.0	-3.5	-4.0	.0	-0.5	5.5	5.5	16.5	21.0	22.5	24.5	22.5
14	7.5	-3.5	-1.0	.0	6.5	-2.0	1.5	13.5	20.0	21.0	24.5	18.5
15	12.0	1.0	1.5	11.5	-1.5	4.5	-1.0	14.5	21.5	24.5	24.5	18.0
16	13.0	-1.5	-9.0	3.0	-7.5	11.5	11.0	14.0	23.5	25.0	25.5	18.5
17	15.0	3.0	-13.5	1.5	-11.5	-0.5	11.0	12.0	22.5	22.0	25.5	14.5
18	15.0	11.0	-8.5	-2.0	-3.5	-3.0	7.5	15.5	24.0	21.5	25.5	17.5
19	18.5	17.0	-2.5	7.0	5.0	8.5	7.0	13.0	22.0	25.0	26.0	18.5
20	21.0	18.0	4.5	4.0	1.0	3.5	8.5	11.5	19.0	23.5	25.0	20.5
21	13.5	4.0	9.5	4.0	8.0	.5	10.5	15.5	20.5	22.5	22.0	23.5
22	3.5	-3.0	12.0	.5	4.0	3.5	11.5	15.5	21.5	22.0	21.0	26.0
23	2.5	-6.0	4.0	-2.5	4.5	5.0	13.0	13.0	22.5	21.0	21.5	18.5
24	3.5	1.0	4.0	4.5	-0.5	4.5	14.0	18.0	26.0	21.0	19.0	18.5
25	3.5	-2.0	-2.5	1.5	-3.0	5.0	11.5	21.5	24.5	19.5	19.5	20.5
26	6.0	-1.0	2.5	-1.5	-8.5	5.0	6.5	21.5	26.5	22.5	21.5	16.0
27	12.5	2.0	7.0	-4.5	-0.5	10.5	4.0	21.5	25.5	21.0	22.0	10.5
28	6.0	-3.0	6.0	-3.5	9.0	8.5	9.5	21.5	27.0	21.0	21.0	12.0
29	4.5	-7.0	4.0	-4.5	-2.0	7.5	7.0	18.5	25.0	21.0	20.0	15.0
30	9.0	-11.5	.5	-3.0	---	4.5	12.0	18.0	26.0	20.5	22.5	13.5
31	3.5	---	-2.0	-8.5	---	.5	---	22.0	---	25.5	23.5	---
MIN	-1.5	-11.5	-13.5	-8.5	-14.5	-10.0	-1.0	6.0	16.5	19.5	19.0	10.5

Water year October 1979 to September 1980

Table 6.--Daily minimum air temperature, in degrees Celsius, at site 11 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.5	4.0	6.5	-2.0	-4.0	3.0	2.5	12.5	15.5	22.5	23.5	21.5
2	12.0	3.0	-4.5	-5.0	-8.5	1.5	8.5	9.0	17.5	21.5	22.0	19.5
3	10.0	5.0	-6.5	-2.0	-8.5	8.0	17.0	13.5	18.5	21.5	24.0	20.0
4	9.5	5.0	6.5	-6.5	-1.5	10.5	7.0	17.0	16.5	21.5	21.5	21.0
5	9.5	4.0	15.5	-3.0	.0	4.0	4.0	11.5	21.0	20.0	21.5	20.5
6	11.5	5.5	16.5	.0	1.5	.0	1.5	11.0	19.5	19.5	21.0	20.0
7	11.0	10.5	17.0	-5.0	1.5	6.5	13.0	12.0	18.0	21.5	20.0	18.5
8	13.0	9.0	1.5	-1.0	-3.5	2.5	17.0	14.0	20.0	23.0	17.5	15.5
9	14.0	10.5	-0.5	-3.0	-3.0	1.0	17.0	10.0	25.0	21.0	15.0	13.5
10	13.0	10.5	-2.0	-1.0	-12.5	-2.0	18.0	7.5	24.0	21.5	17.0	14.0
11	7.0	12.5	-3.5	-5.0	-15.5	1.0	18.0	2.5	21.0	22.0	19.0	17.5
12	5.0	8.0	-0.5	-10.5	-8.5	4.0	18.5	9.0	21.0	22.0	21.0	19.5
13	9.5	5.5	.0	-3.0	-4.0	5.5	12.5	12.0	23.5	21.5	22.0	18.5
14	14.5	5.5	-1.5	.5	-3.0	12.0	10.5	8.5	24.0	21.5	21.5	18.5
15	20.0	4.5	2.5	-3.5	-0.5	12.0	10.5	7.0	17.0	21.5	22.0	17.5
16	17.0	1.5	3.0	-4.5	3.0	6.5	12.5	12.0	13.5	21.0	22.0	12.5
17	12.0	-0.5	.5	-7.0	1.5	7.5	18.5	17.0	10.5	21.0	20.5	8.0
18	9.0	-6.0	4.0	-4.0	6.5	2.5	17.0	15.0	21.0	21.0	19.0	6.5
19	6.0	-8.0	-3.5	1.5	5.0	.5	16.5	7.5	21.5	21.5	16.5	8.0
20	5.0	-4.0	-8.5	.0	4.5	-1.0	17.5	6.5	21.0	23.0	14.0	13.0
21	8.0	-2.0	-10.5	-2.5	10.0	12.5	14.5	8.0	24.0	22.0	16.0	15.0
22	8.5	3.0	-1.5	-6.0	4.0	7.5	17.5	17.0	23.5	23.5	16.0	16.5
23	7.5	6.0	1.5	-3.5	6.0	2.0	11.5	16.5	20.5	21.5	16.0	16.0
24	3.5	.0	-8.0	-0.5	1.0	1.0	7.0	14.0	20.5	20.0	19.0	21.0
25	3.0	-1.5	-11.0	7.5	6.0	5.5	10.5	18.5	20.0	21.0	19.0	20.0
26	7.5	-0.5	-5.5	.5	14.0	3.5	12.0	18.0	21.0	22.5	19.0	22.0
27	7.0	-3.0	-4.0	-1.5	16.5	14.5	15.0	18.0	18.5	20.5	17.0	20.0
28	4.0	-3.0	.5	-4.5	8.0	15.0	14.0	20.0	17.0	19.0	17.0	20.5
29	.5	-2.5	.0	1.5	---	9.0	19.0	19.5	18.5	22.0	18.5	18.5
30	-1.0	-3.5	-4.5	-1.0	---	5.5	20.0	18.0	22.5	22.0	21.0	18.0
31	-4.5	---	-2.5	-1.0	---	8.0	---	16.5	---	22.5	21.0	---
MIN	-1.0	-8.0	-11.0	-10.5	-15.5	-2.0	1.5	2.5	10.5	19.0	14.0	6.5

Water year October 1980 to September 1981

Table 6.--Daily minimum air temperature, in degrees Celsius, at site 11 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.0	7.5	-1.5	---	---	---	---	---	---	---	---	---
2	8.5	6.5	-4.5	---	---	---	---	---	---	---	---	---
3	13.0	2.5	-1.0	---	---	---	---	---	---	---	---	---
4	18.0	.0	-5.0	---	---	---	---	---	---	---	---	---
5	22.0	4.0	-5.5	---	---	---	---	---	---	---	---	---
6	15.0	2.0	4.5	---	---	---	---	---	---	---	---	---
7	9.5	-1.0	7.0	---	---	---	---	---	---	---	---	---
8	9.0	3.0	3.0	---	---	---	---	---	---	---	---	---
9	12.5	3.5	-0.5	---	---	---	---	---	---	---	---	---
10	11.5	-0.5	---	---	---	---	---	---	---	---	---	---
11	10.0	-2.0	---	---	---	---	---	---	---	---	---	---
12	16.5	-2.0	---	---	---	---	---	---	---	---	---	---
13	18.5	-0.5	---	---	---	---	---	---	---	---	---	---
14	18.0	3.0	---	---	---	---	---	---	---	---	---	---
15	19.5	7.5	---	---	---	---	---	---	---	---	---	---
16	19.0	5.0	---	---	---	---	---	---	---	---	---	---
17	14.0	4.5	---	---	---	---	---	---	---	---	---	---
18	6.5	12.0	---	---	---	---	---	---	---	---	---	---
19	3.0	-0.5	---	---	---	---	---	---	---	---	---	---
20	7.5	-4.0	---	---	---	---	---	---	---	---	---	---
21	11.5	-4.0	---	---	---	---	---	---	---	---	---	---
22	6.5	5.5	---	---	---	---	---	---	---	---	---	---
23	.0	5.0	---	---	---	---	---	---	---	---	---	---
24	-1.0	-0.5	---	---	---	---	---	---	---	---	---	---
25	6.0	10.0	---	---	---	---	---	---	---	---	---	---
26	2.0	3.5	---	---	---	---	---	---	---	---	---	---
27	1.0	1.5	---	---	---	---	---	---	---	---	---	---
28	3.0	8.0	---	---	---	---	---	---	---	---	---	---
29	8.0	7.5	---	---	---	---	---	---	---	---	---	---
30	11.0	8.0	---	---	---	---	---	---	---	---	---	---
31	11.5	---	---	---	---	---	---	---	---	---	---	---
MIN	-1.0	-4.0	-5.5	---	---	---	---	---	---	---	---	---

Water year October 1981 to September 1982

Table 7.--Daily maximum air temperature, in degrees Celsius, at site 11

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30.0	22.0	12.0	-1.5	7.5	6.0	29.0	25.5	29.0	36.0	32.5	29.0
2	24.5	11.5	17.0	8.0	.0	15.0	27.5	14.5	27.0	37.5	33.5	33.0
3	21.5	16.5	23.0	8.5	6.0	.5	24.5	13.0	28.5	40.5	33.0	37.5
4	20.0	21.5	21.0	13.0	5.0	1.5	32.5	16.0	29.0	36.5	26.5	37.5
5	20.0	19.5	20.0	21.0	6.5	13.0	23.5	16.5	24.5	37.0	29.0	36.5
6	25.0	21.0	5.0	21.0	5.0	15.5	27.5	20.5	29.0	37.5	31.5	35.5
7	27.0	23.5	15.0	19.0	-2.0	6.5	28.5	29.5	31.5	38.5	33.5	34.5
8	25.5	18.0	21.5	3.5	-3.0	4.5	25.5	27.5	26.5	39.0	33.5	31.0
9	23.5	24.0	2.0	-1.0	-0.5	10.0	25.5	26.5	30.0	40.0	34.0	30.0
10	21.0	18.0	5.0	-1.0	2.0	19.0	19.0	25.5	31.0	40.0	36.0	33.0
11	16.5	22.5	8.0	-1.5	5.0	13.0	21.0	27.0	33.0	38.5	38.0	29.5
12	19.5	21.0	15.5	-0.5	6.5	14.0	25.0	30.0	33.0	37.5	37.0	28.0
13	24.5	20.0	17.5	6.0	8.0	21.0	26.5	24.5	29.0	39.0	37.5	33.5
14	25.5	20.0	19.0	2.0	3.5	17.5	26.5	30.0	31.0	40.0	38.0	33.5
15	22.0	22.5	20.5	10.0	3.0	11.5	27.5	32.0	32.5	38.5	38.0	35.0
16	19.5	22.5	26.0	11.0	2.0	14.5	27.0	21.5	32.5	38.5	37.5	35.5
17	26.0	22.5	17.0	-1.0	-3.5	23.0	27.0	23.0	33.5	38.0	37.5	34.0
18	32.0	22.5	22.5	-2.0	-2.5	27.0	24.0	30.0	30.5	38.5	37.5	34.0
19	27.5	19.5	22.5	-4.5	2.0	27.0	18.0	32.5	34.0	38.0	29.5	35.0
20	29.5	24.5	12.0	-3.5	3.5	25.0	18.5	32.0	34.0	37.0	35.5	35.0
21	27.5	11.5	6.0	-3.0	.5	24.0	22.0	26.5	32.0	36.5	37.5	24.5
22	22.5	11.5	12.0	-2.5	14.0	27.5	25.0	30.5	34.0	35.5	36.0	23.0
23	27.0	18.0	17.0	1.0	11.5	22.0	27.0	30.5	34.5	30.0	37.0	30.0
24	24.5	18.5	18.0	3.5	21.0	9.5	26.0	30.0	35.5	29.5	37.5	31.0
25	23.0	15.5	6.5	5.5	14.0	10.5	20.0	31.5	36.0	35.5	37.5	30.0
26	28.0	17.0	10.0	2.5	7.5	15.0	21.5	31.0	35.5	36.5	37.5	27.0
27	28.5	14.5	8.5	1.5	7.5	21.0	25.0	31.0	35.0	34.0	35.5	28.0
28	25.5	14.5	11.0	5.5	8.5	25.0	25.0	26.5	35.5	37.0	33.0	31.0
29	28.5	10.0	6.5	3.0	---	24.0	27.5	30.5	36.5	36.5	31.0	30.0
30	26.5	7.0	6.5	1.0	---	26.0	24.5	31.5	36.0	37.5	30.5	30.5
31	29.5	---	9.5	2.5	---	28.0	---	32.0	---	35.0	32.5	---
MAX	32.0	24.5	26.0	21.0	21.0	28.0	32.5	32.5	36.5	40.5	38.0	37.5

Water year October 1977 to September 1978

Table 7.--Daily maximum air temperature, in degrees Celsius, at site 11 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29.0	24.5	16.0	-6.5	2.5	17.5	22.5	22.5	24.0	35.5	33.0	31.0
2	33.5	29.0	25.0	-0.5	4.0	14.5	13.0	24.5	24.0	33.0	30.0	33.5
3	28.0	28.0	4.0	2.0	2.5	15.5	10.0	20.0	26.5	34.0	31.0	33.5
4	29.0	27.5	10.0	.0	4.5	10.5	14.0	15.0	29.5	35.5	33.5	33.0
5	24.0	26.5	20.0	.0	.0	18.5	22.5	23.5	24.5	32.5	34.5	31.5
6	23.0	17.5	5.0	-5.0	1.0	22.5	27.0	27.0	30.0	28.5	34.5	33.0
7	25.0	15.5	1.0	-3.5	1.0	19.0	23.0	29.0	32.0	32.5	34.0	31.0
8	24.5	19.0	-2.5	-1.5	3.0	19.0	27.0	29.0	32.5	33.0	33.0	30.0
9	27.0	20.5	2.0	-3.5	-2.5	15.0	20.5	28.5	32.0	35.0	31.0	29.5
10	25.5	26.0	9.0	2.5	7.0	16.0	22.0	31.0	24.5	33.0	34.0	29.0
11	28.0	16.5	12.5	1.5	13.0	23.0	24.5	15.5	26.5	34.0	28.5	30.5
12	33.5	21.5	15.5	5.5	7.0	23.5	24.0	23.0	27.5	34.0	27.0	28.5
13	22.5	24.5	10.5	2.5	7.0	27.0	24.0	28.0	30.0	33.5	32.0	26.0
14	23.5	18.0	10.0	-5.5	25.5	16.5	27.0	29.0	31.5	33.0	34.5	23.5
15	28.5	7.0	15.5	4.0	19.0	10.5	29.5	29.0	32.0	32.0	35.0	25.0
16	23.0	6.5	11.5	8.5	-4.5	9.0	28.5	29.5	32.5	34.0	32.0	25.5
17	21.5	14.5	10.0	12.0	-4.5	18.5	28.5	28.5	32.0	31.5	32.0	27.0
18	25.5	18.0	19.0	10.0	5.0	20.0	20.0	29.5	32.0	25.5	33.5	23.5
19	27.5	16.0	23.0	11.5	11.0	20.5	24.0	29.0	34.0	28.5	34.0	22.0
20	31.5	10.5	19.5	8.0	9.0	20.5	27.5	30.0	35.0	31.0	31.5	19.0
21	31.0	8.5	13.0	8.0	13.0	21.0	20.5	23.5	32.5	32.5	31.5	27.5
22	28.0	13.0	15.5	10.5	23.0	22.5	21.0	22.5	33.5	31.0	32.5	27.5
23	19.0	21.5	18.5	9.0	17.0	12.5	23.0	25.5	31.5	31.5	31.5	26.5
24	19.0	19.0	6.5	4.5	4.5	12.5	28.5	22.5	28.0	31.5	32.0	27.5
25	25.5	16.0	16.5	4.0	11.0	19.5	29.5	22.5	23.5	33.0	32.0	28.5
26	18.5	20.5	11.0	3.5	12.0	26.5	22.0	25.5	29.5	26.0	33.0	29.0
27	23.5	8.5	7.0	.0	16.5	20.0	18.5	29.0	30.5	29.5	32.0	28.0
28	25.0	13.0	10.0	1.0	14.0	22.0	20.5	32.5	33.5	33.5	33.5	32.0
29	23.5	15.0	9.5	-1.5	---	21.0	22.5	26.5	37.0	33.0	31.5	32.0
30	26.5	15.0	-1.5	1.0	---	24.5	23.5	24.5	31.5	33.5	32.0	33.5
31	28.0	---	-2.5	-2.0	---	23.0	---	26.5	---	31.5	30.0	---
MAX	33.5	29.0	25.0	12.0	25.5	27.0	29.5	32.5	37.0	35.5	35.0	33.5

Water year October 1978 to September 1979

Table 7.--Daily maximum air temperature, in degrees Celsius, at site 11 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34.0	15.0	11.5	13.5	4.5	.0	26.0	25.0	29.5	40.0	39.0	37.5
2	27.0	14.5	8.0	11.5	8.5	5.0	26.0	20.5	30.0	41.5	39.0	37.0
3	26.0	17.0	12.5	2.0	11.0	14.0	19.5	26.0	30.0	41.0	37.0	37.0
4	24.0	17.5	16.0	-1.0	7.0	26.5	18.5	28.5	32.5	38.0	35.5	36.5
5	30.0	18.0	21.5	5.5	15.5	9.5	22.0	30.0	33.5	37.0	37.5	37.0
6	28.5	13.0	14.5	18.0	11.5	21.5	23.5	31.0	34.5	37.5	37.5	35.0
7	33.5	9.5	18.0	.0	3.5	28.5	32.0	28.5	35.5	38.0	37.5	34.0
8	31.0	16.5	14.0	8.0	1.0	16.0	20.0	19.5	30.0	38.5	38.5	34.5
9	18.5	12.5	14.5	9.0	.0	21.5	23.0	24.0	26.5	38.5	39.5	34.5
10	18.0	7.0	17.0	14.5	3.0	26.5	27.0	30.0	29.0	38.5	38.0	35.0
11	33.0	11.5	23.5	14.0	7.5	13.5	27.0	31.0	32.0	39.0	35.5	36.0
12	33.0	12.5	1.0	9.5	9.0	19.5	10.0	32.0	33.0	39.0	37.5	35.5
13	20.5	14.5	4.0	16.0	14.5	17.0	9.5	24.5	33.5	39.0	37.0	37.0
14	19.0	17.0	7.0	19.5	14.5	20.5	16.0	26.0	33.5	39.5	37.5	37.5
15	22.0	20.0	12.0	17.5	15.5	22.5	25.5	17.5	35.5	38.5	36.0	38.5
16	21.5	21.5	1.5	18.0	.0	24.5	27.5	27.5	34.0	40.5	38.0	37.0
17	20.0	22.0	.5	13.5	2.5	13.5	22.0	28.0	34.5	41.0	36.5	28.0
18	27.5	19.0	11.0	18.5	8.0	16.5	21.0	20.5	37.0	40.0	36.5	36.5
19	25.0	24.0	16.0	13.0	23.5	20.5	25.0	24.0	38.0	41.5	37.5	35.0
20	29.5	22.5	18.0	9.0	28.5	23.5	28.0	26.0	33.0	39.0	38.5	34.5
21	30.0	21.5	18.5	6.0	24.5	18.5	29.0	21.0	33.5	37.5	38.5	34.5
22	15.5	8.5	20.5	7.5	26.0	22.0	28.0	24.0	33.0	36.0	39.0	34.0
23	20.0	12.5	15.0	13.5	14.5	20.0	28.5	26.5	37.5	35.5	37.0	28.0
24	24.0	12.5	12.5	21.0	8.0	11.0	23.0	29.5	39.0	35.5	38.5	27.5
25	25.0	14.5	16.0	14.0	10.0	16.5	21.5	32.0	38.5	35.5	38.0	26.0
26	25.0	15.5	18.0	6.5	14.0	19.0	12.0	32.0	41.5	38.0	38.0	20.5
27	23.5	14.0	15.5	.0	24.0	13.5	20.5	30.0	43.0	36.5	37.0	15.5
28	23.5	6.0	12.0	.0	29.0	22.5	25.0	28.5	41.5	38.5	35.0	15.5
29	18.0	1.5	6.5	2.0	11.5	14.0	28.5	28.5	42.0	38.5	36.5	20.0
30	20.5	6.5	5.5	2.0	---	13.5	23.5	30.0	39.5	38.5	37.0	23.0
31	15.0	---	10.0	.0	---	21.0	---	30.0	---	38.5	37.0	---
MAX	34.0	24.0	23.5	21.0	29.0	28.5	32.0	32.0	43.0	41.5	39.5	38.5

Water year October 1979 to September 1980

Table 7.--Daily maximum air temperature, in degrees Celsius, at site 11 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30.0	24.5	23.5	16.0	6.5	12.0	27.0	24.5	29.5	31.5	32.5	30.0
2	27.5	24.5	5.5	12.0	2.5	17.0	26.5	24.0	30.0	34.0	34.5	27.0
3	25.5	25.5	8.0	11.5	13.0	11.0	24.5	21.5	26.0	29.0	36.0	30.0
4	26.5	22.5	15.5	7.5	3.5	22.5	19.0	24.0	28.0	32.0	35.0	32.5
5	23.5	26.0	19.0	4.0	3.0	15.0	20.0	22.0	23.0	30.0	35.0	29.0
6	20.0	28.0	20.0	15.5	5.5	16.5	20.0	21.0	27.5	31.5	37.5	31.0
7	28.0	25.5	21.0	11.0	7.0	9.5	23.0	23.5	32.0	29.5	31.5	34.0
8	32.0	23.5	18.5	11.0	10.0	8.0	23.5	19.0	35.5	32.5	31.0	28.0
9	32.0	28.0	2.5	15.5	8.5	9.0	25.0	17.5	33.0	34.0	34.0	27.5
10	31.0	27.5	8.5	6.0	9.5	17.0	23.5	19.0	33.0	34.5	34.0	29.0
11	25.5	24.5	16.0	6.5	0	17.0	23.5	22.5	30.5	34.5	29.5	32.5
12	25.0	23.5	18.5	6.5	4.0	19.5	26.5	26.0	29.0	33.5	32.0	32.5
13	26.5	22.5	16.5	18.5	10.0	21.0	27.0	28.0	29.5	33.0	32.0	33.5
14	24.5	12.5	16.5	15.5	13.0	19.5	21.0	22.0	30.0	33.5	35.0	29.5
15	27.5	6.5	19.0	10.0	16.5	20.5	15.5	19.5	30.5	33.5	38.0	29.5
16	27.5	4.5	16.5	2.5	18.5	19.5	25.5	19.0	25.0	34.0	30.0	24.0
17	26.5	2.5	17.5	4.5	20.5	24.0	26.5	28.0	28.0	34.0	27.0	20.0
18	20.5	6.5	24.0	6.5	22.0	13.5	24.0	28.0	32.5	34.0	24.5	21.0
19	22.0	11.5	4.5	3.0	26.0	17.0	25.5	16.5	33.5	34.5	28.0	25.0
20	24.5	15.0	0	5.0	27.0	18.5	24.5	24.5	33.0	36.5	27.0	28.5
21	25.0	12.0	3.0	5.0	22.5	22.5	18.5	25.0	33.0	36.0	30.0	31.5
22	25.0	8.5	5.5	13.0	16.0	13.0	24.5	26.5	32.5	36.0	31.0	34.0
23	24.5	9.5	8.0	19.0	21.5	17.5	23.5	30.0	33.5	36.0	32.0	33.0
24	15.0	9.0	6.5	23.5	26.0	20.5	27.5	29.5	32.5	36.5	35.0	32.5
25	21.5	5.0	0	19.0	19.0	20.5	27.0	27.0	34.0	35.0	33.5	32.0
26	17.5	4.5	12.0	12.0	22.5	21.5	27.0	29.0	32.0	34.0	32.0	33.5
27	23.0	7.0	13.0	15.5	21.5	23.5	28.0	29.5	31.5	31.5	29.5	34.5
28	9.5	12.5	14.0	18.5	16.5	19.5	28.0	29.0	32.5	27.5	32.0	32.5
29	11.5	18.5	13.5	22.0	---	23.0	29.0	26.0	32.5	30.0	33.0	33.0
30	17.5	21.0	15.5	3.0	---	27.0	31.0	26.5	34.0	31.5	32.5	33.0
31	23.0	---	18.5	6.0	---	24.5	---	26.5	---	34.5	31.5	---
MAX	32.0	28.0	24.0	23.5	27.0	27.0	31.0	30.0	35.5	36.5	38.0	34.5

Water year October 1980 to September 1981

Table 7.--Daily maximum air temperature, in degrees Celsius, at site 11

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.5	15.5	10.5	---	---	---	---	---	---	---	---	---
2	27.5	14.0	17.0	---	---	---	---	---	---	---	---	---
3	25.5	14.0	21.0	---	---	---	---	---	---	---	---	---
4	33.0	20.5	12.0	---	---	---	---	---	---	---	---	---
5	33.5	24.0	12.0	---	---	---	---	---	---	---	---	---
6	24.0	19.5	15.5	---	---	---	---	---	---	---	---	---
7	14.0	22.0	21.5	---	---	---	---	---	---	---	---	---
8	16.5	12.5	21.5	---	---	---	---	---	---	---	---	---
9	16.0	10.0	---	---	---	---	---	---	---	---	---	---
10	23.0	15.0	---	---	---	---	---	---	---	---	---	---
11	20.5	19.0	---	---	---	---	---	---	---	---	---	---
12	21.0	18.5	---	---	---	---	---	---	---	---	---	---
13	21.5	20.0	---	---	---	---	---	---	---	---	---	---
14	27.5	20.5	---	---	---	---	---	---	---	---	---	---
15	26.5	20.5	---	---	---	---	---	---	---	---	---	---
16	25.5	25.0	---	---	---	---	---	---	---	---	---	---
17	27.5	25.5	---	---	---	---	---	---	---	---	---	---
18	19.0	24.5	---	---	---	---	---	---	---	---	---	---
19	21.0	14.5	---	---	---	---	---	---	---	---	---	---
20	22.5	8.0	---	---	---	---	---	---	---	---	---	---
21	23.5	12.0	---	---	---	---	---	---	---	---	---	---
22	13.0	16.5	---	---	---	---	---	---	---	---	---	---
23	12.5	20.5	---	---	---	---	---	---	---	---	---	---
24	13.5	20.5	---	---	---	---	---	---	---	---	---	---
25	9.5	25.5	---	---	---	---	---	---	---	---	---	---
26	16.5	21.0	---	---	---	---	---	---	---	---	---	---
27	21.0	12.5	---	---	---	---	---	---	---	---	---	---
28	21.5	15.5	---	---	---	---	---	---	---	---	---	---
29	23.0	12.0	---	---	---	---	---	---	---	---	---	---
30	23.5	18.0	---	---	---	---	---	---	---	---	---	---
31	18.5	---	---	---	---	---	---	---	---	---	---	---
MAX	33.5	25.5	21.5	---	---	---	---	---	---	---	---	---

Water year October 1981 to September 1982

Table 8.--Daily average incidental solar radiation intensity, in calories per square centimeter, at site 11

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	419	198	205	143	214	131	495	500	288	659	455	355
2	420	219	269	291	134	413	452	383	462	554	497	473
3	403	200	316	290	241	310	274	380	477	696	352	571
4	364	209	276	260	211	345	472	466	439	598	242	473
5	297	163	352	325	235	446	299	354	180	655	440	410
6	300	207	225	377	277	268	406	326	495	707	568	510
7	344	251	335	375	82	132	399	551	580	691	631	495
8	412	320	454	237	62	170	412	587	704	702	580	281
9	487	250	266	236	83	374	281	660	723	699	505	234
10	440	337	283	219	208	516	341	630	720	652	581	470
11	294	391	186	57	229	444	487	496	702	683	611	264
12	475	356	190	3	123	415	579	568	606	667	616	154
13	527	290	253	228	269	355	580	615	437	682	621	347
14	504	203	318	198	232	408	487	741	642	631	605	433
15	470	187	271	220	115	360	548	687	658	603	520	470
16	462	232	340	279	208	428	450	479	648	709	570	527
17	473	312	297	246	131	559	539	398	669	676	633	467
18	515	325	414	85	340	551	539	527	564	665	618	498
19	416	188	397	42	417	469	548	530	567	683	369	397
20	438	245	198	188	389	322	568	412	708	628	419	459
21	354	207	188	197	296	491	596	360	358	640	572	347
22	179	161	284	215	417	395	471	408	617	587	615	233
23	221	206	235	189	305	345	620	567	719	331	569	460
24	322	220	291	36	411	370	545	574	659	315	567	333
25	312	247	248	101	352	383	523	613	702	651	533	364
26	368	359	317	216	281	457	579	484	705	554	413	280
27	349	232	243	221	101	528	594	596	688	672	448	363
28	212	179	192	281	225	499	485	475	646	668	315	422
29	326	144	75	212	---	506	414	675	659	678	479	472
30	165	2	77	142	---	501	397	680	662	651	506	485
31	248	---	201	131	---	486	---	663	---	473	487	---
MEAN	371	235	264	201	235	399	479	529	589	628	514	402

Water year October 1977 to September 1978

Table 8.--Daily average incidental solar radiation intensity, in calories per square centimeter, at site 11 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	477	312	182	258	294	473	209	239	547	625	601	533
2	477	359	154	333	78	126	342	147	395	688	425	547
3	360	323	237	295	173	272	95	45	546	712	532	504
4	485	304	326	46	142	506	450	182	588	683	635	518
5	183	318	321	85	110	509	598	692	374	501	631	547
6	498	56	121	59	62	480	595	700	509	305	615	432
7	481	365	71	95	63	491	315	686	552	505	578	518
8	268	372	149	321	104	503	408	630	538	563	592	562
9	392	367	320	296	464	272	622	463	514	606	558	547
10	250	312	306	74	377	449	158	426	514	617	573	547
11	236	284	306	96	300	525	563	308	658	631	538	461
12	428	137	316	240	108	503	635	719	608	638	439	360
13	466	201	278	126	95	504	650	685	719	619	592	504
14	476	99	268	325	326	498	644	699	636	539	548	533
15	464	58	287	201	160	105	626	600	656	372	560	533
16	469	50	187	72	318	101	598	632	635	351	494	533
17	458	215	257	101	74	125	509	595	633	488	504	518
18	447	322	242	42	406	62	141	588	600	175	493	216
19	418	231	233	44	422	69	218	623	594	386	531	105
20	422	81	221	171	63	441	408	573	605	533	537	85
21	420	127	307	295	124	249	300	465	636	578	582	418
22	312	41	297	214	161	434	229	381	518	584	593	490
23	123	198	248	161	354	199	476	575	440	461	532	432
24	204	165	308	349	42	600	647	591	488	482	490	475
25	215	59	309	77	467	578	558	593	207	425	499	432
26	425	130	253	112	436	507	673	586	609	197	394	449
27	425	191	151	350	392	475	254	554	606	279	383	449
28	413	308	86	365	168	101	499	602	621	599	457	399
29	401	407	45	87	---	60	613	514	682	637	518	443
30	392	246	52	193	---	489	609	520	557	659	562	432
31	313	---	105	437	---	485	---	532	---	450	187	---
MEAN	381	221	224	191	224	361	455	521	560	513	522	451

Water year October 1978 to September 1979

Table 8.---Daily average incidental solar radiation intensity, in calories per square centimeter, at site 11 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	432	366	295	270	387	329	527	389	421	656	645	500
2	475	260	300	101	303	493	390	255	449	686	624	420
3	403	357	272	44	363	399	587	577	474	643	314	438
4	475	302	273	65	149	421	585	592	609	664	438	505
5	446	130	271	200	355	470	560	537	567	664	532	491
6	403	355	309	133	364	444	413	586	579	664	611	494
7	432	60	271	171	62	374	461	565	611	574	587	502
8	418	86	275	261	34	466	601	395	486	686	620	405
9	109	53	249	248	103	467	606	652	545	672	551	434
10	374	318	145	25	429	453	591	610	573	675	392	434
11	432	315	98	262	266	104	264	570	641	686	286	449
12	374	217	22	245	380	374	143	508	703	672	491	480
13	418	332	166	282	287	530	99	394	713	688	468	494
14	216	326	99	254	149	524	617	567	729	652	554	492
15	144	320	240	46	104	472	636	87	653	676	494	470
16	95	325	224	268	269	151	542	483	589	563	501	441
17	98	295	279	256	397	494	519	669	627	666	473	481
18	331	114	260	251	226	508	431	174	612	637	573	411
19	158	167	225	82	395	437	489	612	704	581	597	495
20	360	42	243	24	425	365	629	377	541	537	591	474
21	274	294	98	68	431	508	640	262	653	612	583	390
22	387	209	179	155	372	460	577	452	531	603	576	307
23	399	322	27	326	319	53	597	530	586	610	577	58
24	379	177	279	315	169	472	375	562	634	635	587	218
25	393	249	275	183	466	371	406	536	715	572	488	144
26	374	286	250	112	453	446	133	591	675	400	441	110
27	199	286	142	119	443	79	508	553	713	609	389	23
28	371	317	50	32	438	431	639	463	667	643	396	76
29	65	252	50	48	105	273	583	480	697	641	525	164
30	13	248	105	64	---	275	258	362	641	630	538	185
31	228	---	232	323	---	518	---	597	---	631	512	---
MEAN	311	246	201	169	299	392	480	484	613	644	515	367

Water year October 1979 to September 1980

Table 8.--Daily average incidental solar radiation intensity, in calories per square centimeter,
at site 11 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	453	420	251	284	358	185	543	574	504	415	416	421
2	414	420	277	287	373	363	497	654	515	569	551	264
3	473	402	115	273	359	56	93	193	365	287	387	393
4	472	376	62	280	204	445	571	231	499	413	616	429
5	451	224	52	155	58	340	563	191	88	443	602	406
6	210	346	56	234	81	378	402	400	446	507	600	420
7	428	338	51	292	58	76	503	424	612	480	557	493
8	446	226	48	130	369	144	254	153	665	588	610	470
9	411	276	67	276	24	135	363	84	600	607	581	499
10	409	300	287	144	55	434	170	662	437	609	597	489
11	442	266	284	292	406	385	183	667	447	619	518	487
12	432	305	265	302	247	458	456	636	376	635	493	340
13	422	248	220	296	363	444	500	241	286	563	389	445
14	214	133	262	305	392	445	201	659	326	641	558	412
15	216	84	265	281	366	369	249	289	363	652	603	409
16	184	21	275	278	353	515	426	165	515	608	389	423
17	392	46	268	302	374	463	489	298	692	634	316	445
18	118	317	258	129	366	283	266	660	535	648	399	474
19	371	278	48	63	404	517	356	309	661	644	484	492
20	409	304	263	75	314	418	402	665	659	633	538	473
21	323	205	271	61	244	434	104	603	645	632	630	478
22	382	57	109	295	376	503	260	289	547	641	549	486
23	271	69	48	326	430	503	478	278	611	642	571	399
24	354	121	221	322	433	486	619	582	601	645	562	385
25	400	190	238	197	257	337	621	389	658	612	522	414
26	266	86	260	160	222	368	569	591	637	548	417	419
27	271	136	263	305	116	315	573	590	678	360	411	380
28	219	294	260	332	73	100	448	217	629	278	533	414
29	289	286	241	297	---	511	594	187	578	314	528	434
30	411	286	286	104	---	557	545	352	533	543	472	431
31	427	---	277	23	---	554	---	377	---	505	468	---
MEAN	354	235	198	229	274	359	410	407	524	546	512	431

Water year October 1980 to September 1981

Table 8.--Daily average incidental solar radiation intensity, in calories per square centimeter,
at site 11 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	376	265	285	---	---	---	---	---	---	---	---	---
2	447	135	263	---	---	---	---	---	---	---	---	---
3	296	85	274	---	---	---	---	---	---	---	---	---
4	313	316	287	---	---	---	---	---	---	---	---	---
5	389	341	234	---	---	---	---	---	---	---	---	---
6	116	348	150	---	---	---	---	---	---	---	---	---
7	56	317	231	---	---	---	---	---	---	---	---	---
8	202	39	259	---	---	---	---	---	---	---	---	---
9	79	115	---	---	---	---	---	---	---	---	---	---
10	277	293	---	---	---	---	---	---	---	---	---	---
11	113	311	---	---	---	---	---	---	---	---	---	---
12	53	273	---	---	---	---	---	---	---	---	---	---
13	7	314	---	---	---	---	---	---	---	---	---	---
14	303	279	---	---	---	---	---	---	---	---	---	---
15	104	137	---	---	---	---	---	---	---	---	---	---
16	137	287	---	---	---	---	---	---	---	---	---	---
17	127	284	---	---	---	---	---	---	---	---	---	---
18	425	200	---	---	---	---	---	---	---	---	---	---
19	413	291	---	---	---	---	---	---	---	---	---	---
20	353	317	---	---	---	---	---	---	---	---	---	---
21	238	237	---	---	---	---	---	---	---	---	---	---
22	72	281	---	---	---	---	---	---	---	---	---	---
23	362	242	---	---	---	---	---	---	---	---	---	---
24	396	275	---	---	---	---	---	---	---	---	---	---
25	38	254	---	---	---	---	---	---	---	---	---	---
26	360	267	---	---	---	---	---	---	---	---	---	---
27	360	226	---	---	---	---	---	---	---	---	---	---
28	305	152	---	---	---	---	---	---	---	---	---	---
29	348	77	---	---	---	---	---	---	---	---	---	---
30	175	286	---	---	---	---	---	---	---	---	---	---
31	22	---	---	---	---	---	---	---	---	---	---	---
MEAN	234	241	248	---	---	---	---	---	---	---	---	---

Water year October 1981 to September 1982

Table 9.--Soil moisture, in percent of total volume, at site 3

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
24AUG1978		13SEP1978		27SEP1978	
0.3	4	0.3	6	0.3	5
1.0	7	1.0	6	1.0	7
1.6	6	1.6	7	1.6	6
2.3	7	2.3	8	2.3	6
3.0	10	3.0	11	3.0	7
3.6	13	3.6	15	3.6	9
4.3	16	4.3	18	4.3	13
5.0	19	5.0	20	5.0	17
5.6	22	5.6	22	5.6	19
6.3	24	6.3	23	6.3	20
7.0	27	7.0	26	7.0	25
7.6	27	7.6	27	7.6	26
8.3	28	8.3	29	8.3	27
9.0	28			9.0	27
04OCT1978		25OCT1978		08NOV1978	
0.3	4	0.3	5	0.3	6
1.0	7	1.0	7	1.0	6
1.6	6	1.6	5	1.6	6
2.3	6	2.3	6	2.3	6
3.0	7	3.0	7	3.0	7
3.6	9	3.6	8	3.6	8
4.3	12	4.3	10	4.3	10
5.0	17	5.0	15	5.0	15
5.6	19	5.6	18	5.6	18
6.3	19	6.3	19	6.3	18
7.0	25	7.0	24	7.0	23
7.6	26	7.6	26	7.6	25
8.3	26	8.3	26	8.3	25
9.0	27	9.0	28	9.0	26
		9.2	27	9.2	26

Table 9.--Soil moisture, in percent of total volume, at site 3 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
21NOV1978		06DEC1978		20DEC1978	
0.3	19	0.3	17	0.3	17
1.0	20	1.0	20	1.0	20
1.6	9	1.6	16	1.6	17
2.3	6	2.3	11	2.3	15
3.0	7	3.0	7	3.0	9
3.6	8	3.6	8	3.6	8
4.3	10	4.3	10	4.3	11
5.0	15	5.0	15	5.0	15
5.6	17	5.6	17	5.6	17
6.3	17	6.3	17	6.3	17
7.0	23	7.0	23	7.0	23
7.6	25	7.6	25	7.6	25
8.3	25	8.3	25	8.3	25
9.0	26	9.0	26	9.0	26
9.2	26	9.2	26	9.2	26
16JAN1979		31JAN1979		22FEB1979	
0.3	20	0.3	21	0.3	21
1.0	19	1.0	21	1.0	21
1.6	16	1.6	18	1.6	18
2.3	14	2.3	19	2.3	19
3.0	10	3.0	18	3.0	18
3.6	8	3.6	15	3.6	17
4.3	11	4.3	11	4.3	18
5.0	15	5.0	15	5.0	19
5.6	17	5.6	17	5.6	18
6.3	17	6.3	17	6.3	17
7.0	22	7.0	23	7.0	23
7.6	24	7.6	25	7.6	25
8.3	24	8.3	24	8.3	25
9.0	25	9.0	25	9.0	26
9.2	26	9.2	25	9.2	26

Table 9.--Soil moisture, in percent of total volume, at site 3 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
07MAR1979		21MAR1979		28MAR1979	
0.3	21	0.3	24	0.3	21
1.0	22	1.0	26	1.0	24
1.6	19	1.6	29	1.6	26
2.3	19				
3.0	20				
3.6	19				
4.3	19				
5.0	22				
5.6	21				
6.3	23				
7.0	24				
7.6	27				
8.3	30				
9.0	29				
9.2	29				
12APR1979		19APR1979		02MAY1979	
0.3	21	0.3	21	0.3	17
1.0	23	1.0	23	1.0	21
1.6	25	1.6	23	1.6	22
2.0	27	2.2	26	2.3	25
09MAY1979		16MAY1979		21JUN1979	
0.3	16	0.3	15	0.3	16
1.0	21	1.0	20	1.0	21
1.6	21	1.6	19	1.6	21
2.3	24	2.3	22	2.0	23

Table 9.--Soil moisture, in percent of total volume, at site 3 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
03JUL1979		19JUL1979		31JUL1979	
0.3	13	0.3	12	0.3	9
1.0	19	1.0	15	1.0	13
1.6	18	1.6	15	1.6	13
2.3	21	2.3	18	2.3	17
15AUG1979		29AUG1979		11SEP1979	
0.3	6	0.3	15	0.3	14
1.0	9	1.0	11	1.0	18
1.6	10	1.6	9	1.6	17
2.3	15	2.3	13	2.3	17
3.0	18	3.0	17	3.0	19
				3.4	20
26SEP1979		10OCT1979		23OCT1979	
0.3	13	0.3	7	0.3	13
1.0	17	1.0	13	1.0	13
1.6	15	1.6	13	1.6	12
2.3	16	2.3	15	2.3	15
3.0	18	3.0	17	3.0	17
3.6	19	3.6	17	3.6	17
				4.3	20
14NOV1979		28DEC1979		09JAN1980	
0.3	17	0.3	19	0.3	17
1.0	19	1.0	20	1.0	19
1.6	13	1.6	15	1.6	15
2.3	15	2.3	15	2.3	15
3.0	16	3.0	17	3.0	17
3.6	17	3.6	17	3.6	17
4.3	19	4.3	19	4.3	18
4.6	21	5.0	21	5.0	21
		5.4	23	5.6	23

Table 9.--Soil moisture, in percent of total volume, at site 3 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
24JAN1980		21FEB1980		21MAR1980	
0.3	20	0.3	16	0.3	13
1.0	23	1.0	21	1.0	18
1.6	20	1.6	19	1.6	16
2.3	20	2.3	19	2.3	18
3.0	19	3.0	19	3.0	19
3.6	18	3.6	19	3.6	19
4.3	19	4.3	23	4.3	22
5.0	22	5.0	26	5.0	26
5.6	25	5.6	27	5.6	27
03APR1980		16APR1980		09MAY1980	
0.3	19	0.3	13	0.3	15
1.0	19	1.0	18	1.0	19
1.6	16	1.6	15	1.6	15
2.3	17	2.3	17	2.3	17
3.0	19	3.0	18	3.0	18
3.6	19	3.6	18	3.6	18
4.3	23	4.3	22	4.3	21
5.0	27	5.0	26	5.0	25
5.6	28	5.6	28	5.6	27
11JUN1980		10JUL1980		14AUG1980	
0.3	18	0.3	6	0.3	4
1.0	22	1.0	14	1.0	7
1.6	21	1.6	15	1.6	6
2.3	25	2.3	18	2.3	9
2.6	27	3.0	21	3.0	13
		3.6	24	3.6	15
				4.3	18
				5.0	21
				5.6	25
				6.0	27

Table 9.--Soil moisture, in percent of total volume, at site 3 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
23SEP1980		03OCT1980	
0.3	4	0.3	18
1.0	6	1.0	20
1.6	6	1.6	18
2.3	6	2.3	19
3.0	7	3.0	18
3.6	8	3.6	12
4.3	12	4.3	12
5.0	16	5.0	17
5.6	20	5.6	20
6.3	21	6.3	21
7.0	26	7.0	26
7.6	27	7.6	27

Table 10.--Soil moisture, in percent of total volume, at site 4

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
16AUG1978		24AUG1978		27SEP1978	
0.3	8	0.3	7	0.3	9
1.0	9	1.0	9	1.0	9
1.6	10	1.6	9	1.6	9
2.3	19	2.3	20	2.3	19
3.0	22	3.0	21	3.0	21
3.6	22	3.6	21	3.6	20
04OCT1978		25OCT1978		07NOV1978	
0.3	7	0.3	7	0.3	10
1.0	9	1.0	8	1.0	9
1.6	9	1.6	9	1.6	9
2.3	19	2.3	19	2.3	19
3.0	21	3.0	21	3.0	20
3.6	20	3.6	20	3.6	20
21NOV1978		06DEC1978		20DEC1978	
0.3	20	0.3	19	0.3	19
1.0	20	1.0	21	1.0	21
1.6	18	1.6	21	1.6	21
2.3	21	2.3	25	2.3	25
3.0	20	3.0	20	3.0	21
3.6	19	3.6	20	3.6	20
16JAN1979		31JAN1979		22FEB1979	
0.3	24	0.3	23	0.3	26
1.0	27	1.0	25	1.0	28
1.6	24	1.6	24	1.6	25
2.3	27	2.3	28	2.3	29
3.0	22	3.0	24	3.0	25
3.6	20	3.6	20	3.6	21

Table 10.--Soil moisture, in percent of total volume, at site 4 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
07MAR1979		21MAR1979		28MAR1979	
0.3	27	0.3	26	0.3	23
1.0	27	1.0	28	1.0	26
1.6	26	1.6	25	1.6	25
2.3	28	2.3	29	2.3	25
3.0	25	3.0	26	3.0	27
3.6	19	3.6	21	3.6	21
12APR1979		19APR1979		02MAY1979	
0.3	25	0.3	24	0.3	21
1.0	27	1.0	24	1.0	23
1.6	26	1.6	26	1.6	25
2.3	29	2.3	29	2.3	29
3.0	27	3.0	24	3.0	27
3.6	21	3.6	22	3.6	21
09MAY1979		16MAY1979		21JUN1979	
0.3	19	0.3	18	0.3	16
1.0	22	1.0	22	1.0	22
1.6	23	1.6	22	1.6	23
2.3	29	2.3	25	2.3	29
3.0	27	3.0	27	3.0	28
3.6	22	3.6	22	3.6	22
03JUL1979		19JUL1979		31JUL1979	
0.3	11	0.3	19	0.3	13
1.0	17	1.0	17	1.0	14
1.6	19	1.6	17	1.6	15
2.3	28	2.3	25	2.3	24
3.0	27	3.0	26	3.0	25
3.6	22	3.6	21	3.6	22

Table 10.--Soil moisture, in percent of total volume, at site 4 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
15AUG1979		29AUG1979		11SEP1979	
0.3	9	0.3	17	0.3	11
1.0	10	1.0	14	1.0	13
1.6	11	1.6	12	1.6	11
2.3	21	2.3	19	2.3	19
3.0	23	3.0	22	3.0	22
3.6	21	3.6	21	3.6	21
26SEP1979		10OCT1979		23OCT1979	
0.3	9	0.3	8	0.3	15
1.0	10	1.0	9	1.0	11
1.6	11	1.6	9	1.6	10
2.3	19	2.3	19	2.3	19
3.0	22	3.0	21	3.0	21
3.6	21	3.6	20	3.6	21
14NOV1979		09JAN1980		24JAN1980	
0.3	17	0.3	18	0.3	20
1.0	15	1.0	16	1.0	21
1.6	10	1.6	11	1.6	18
2.3	19	2.3	19	2.3	20
3.0	21	3.0	21	3.0	21
3.6	21	3.6	21	3.6	20
21FEB1980		21MAR1980		03APR1980	
0.3	20	0.3	13	0.3	19
1.0	21	1.0	19	1.0	19
1.6	22	1.6	21	1.6	20
2.3	27	2.3	25	2.3	25
3.0	23	3.0	23	3.0	23
3.6	21	3.6	21	3.6	21

Table 10.--Soil moisture, in percent of total volume, at site 4 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
16APR1980		09MAY1980		11JUN1980	
0.3	14	0.3	16	0.3	18
1.0	18	1.0	19	1.0	22
1.6	19	1.6	19	1.6	24
2.3	27	2.3	26	2.3	29
3.0	23	3.0	23	3.0	26
3.6	21	3.6	21	3.6	22
10JUL1980		14AUG1980		24SEP1980	
0.3	8	0.3	6	0.3	7
1.0	11	1.0	8	1.0	8
1.6	16	1.6	8	1.6	8
2.3	24	2.3	17	2.3	17
3.0	24	3.0	20	3.0	20
3.6	21	3.6	20	3.6	19
03OCT1980		25NOV1980		06JAN1981	
0.3	22	0.3	22	0.3	21
1.0	25	1.0	25	1.0	24
1.6	24	1.6	25	1.6	26
2.3	29	2.3	29	2.3	30
3.0	22	3.0	24	3.0	27
3.6	20	3.6	20	3.6	21
20FEB1981		12MAR1981		02APR1981	
0.3	21	0.3	24	0.3	20
1.0	24	1.0	26	1.0	22
1.6	25	1.6	25	1.6	24
2.3	29	2.3	30	2.3	30
3.0	27	3.0	28	3.0	28
3.6	22	3.6	24	3.6	25

Table 10.--Soil moisture, in percent of total volume, at site 4 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
23APR1981		12MAY1981		09JUN1981	
0.3	22	0.3	21	0.3	23
1.0	23	1.0	23	1.0	26
1.6	23	1.6	23	1.6	26
2.3	29	2.3	29	2.3	30
3.0	28	3.0	28	3.0	28
3.6	24	3.6	23	3.6	24
12AUG1981		23SEP1981		30OCT1981	
0.3	16	0.3	15	0.3	24
1.0	19	1.0	18	1.0	26
1.6	20	1.6	19	1.6	24
2.3	28	2.3	27	2.3	28
3.0	27	3.0	26	3.0	26
3.6	24	3.6	23	3.6	23
11DEC1981					
0.3	24				
1.0	26				
1.6	25				
2.3	29				
3.0	28				
3.6	24				

Table 11.--Soil moisture, in percent of total volume, at site 6

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
29JUN1978		16AUG1978		24AUG1978	
0.3	16	0.3	7	0.3	6
1.0	17	1.0	9	1.0	8
1.6	22	1.6	12	1.6	11
		2.3	15	2.3	14
		3.0	16	3.0	16
		3.3	15	3.4	15
13SEP1978		04OCT1978		25OCT1978	
0.3	7	0.3	6	0.3	6
1.0	8	1.0	9	1.0	8
1.6	10	1.6	11	1.6	11
2.3	13	2.3	14	2.3	14
3.0	15	3.0	16	3.0	15
3.4	15	3.4	14	3.4	14
07NOV1978		21NOV1978		06DEC1978	
0.3	9	0.3	16	0.3	15
1.0	11	1.0	17	1.0	17
1.6	12	1.6	19	1.6	21
2.3	14	2.3	20	2.3	23
3.0	15	3.0	15	3.0	21
3.4	14	3.4	14	3.4	15
20DEC1978		16JAN1979		31JAN1979	
0.3	15	0.3	21	0.3	18
1.0	17	1.0	17	1.0	19
1.6	21	1.6	20	1.6	22
2.3	23	2.3	22	2.3	25
3.0	23	3.0	22	3.0	25
3.4	19	3.4	20	3.4	24

Table 11.--Soil moisture, in percent of total volume, at site 6 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
22FEB1979		07MAR1979		09MAY1979	
0.3	18	0.3	19	0.3	25
1.0	19	1.0	21		
1.6	22	1.6	27		
2.3	25	1.8	29		
3.0	25				
3.4	25				
16MAY1979		21JUN1979		03JUL1979	
0.3	23	0.3	21	0.3	17
1.0	27	1.0	22	1.0	19
				1.6	24
				2.3	29
				3.0	31
19JUL1979		31JUL1979		15AUG1979	
0.3	19	0.3	15	0.3	10
1.0	20	1.0	18	1.0	15
1.6	23	1.6	22	1.6	19
2.3	26	2.3	26	2.3	23
3.0	28	3.0	27	3.0	24
29AUG1979		11SEP1979		26SEP1979	
0.3	15	0.3	11	0.3	12
1.0	15	1.0	15	1.0	13
1.6	17	1.6	19	1.6	17
2.3	21	2.3	22	2.3	20
3.0	22	3.0	23	3.0	21

Table 11.--Soil moisture, in percent of total volume, at site 6 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
10OCT1979		23OCT1979		14NOV1979	
0.3	7	0.3	11	0.3	13
1.0	10	1.0	10	1.0	13
1.6	14	1.6	14	1.6	14
2.3	18	2.3	17	2.3	17
3.0	19	3.0	19	3.0	19
3.4	19	3.4	18	3.4	18
09JAN1980		24JAN1980		20FEB1980	
0.3	15	0.3	17	0.3	19
1.0	15	1.0	19	1.0	21
1.6	17	1.6	21	1.6	26
2.3	20	2.3	23	2.3	30
3.0	19	3.0	21		
3.3	19	3.3	20		
21MAR1980		03APR1980		16APR1980	
0.3	19	0.3	21	0.3	21
1.0	21	0.8	25	1.0	25
1.6	27				
09MAY1980		11JUN1980		10JUL1980	
0.3	25	0.3	22	0.3	10
0.7	22	1.0	26	1.0	16
		1.5	30	1.6	20
				2.3	25
				3.0	26
				3.3	26

Table 11.--Soil moisture, in percent of total volume, at site 6 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
14AUG1980		23SEP1980		03OCT1980	
0.3	5	0.3	5	0.3	16
1.0	8	1.0	8	1.0	19
1.6	11	1.6	10	1.6	22
2.3	14	2.3	14	2.3	24
3.0	16	3.0	15	3.0	23
3.3	16	3.3	14	3.3	17
25NOV1980		06JAN1981		02APR1981	
0.3	19	0.1	24	0.3	28
1.0	21				
1.6	26				
2.0	28				
23SEP1981					
0.3	16				
1.0	18				
1.6	21				
2.3	26				
3.0	26				

Table 12.--Soil moisture, in percent of total volume, at site 7

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
30AUG1978		27SEP1978		04OCT1978	
0.3	15	0.3	17	0.3	15
1.0	19	1.0	19	1.0	19
1.6	18	1.6	18	1.6	18
2.3	16	2.3	16	2.3	16
3.0	17	3.0	16	3.0	17
3.1	17			3.2	17
25OCT1978		07NOV1978		21NOV1978	
0.3	15	0.3	17	0.3	26
1.0	19	1.0	18	1.0	27
1.6	18	1.6	18	1.6	21
2.3	16	2.3	16	2.3	16
3.0	16	3.0	16	3.0	16
3.2	17	3.1	17	3.1	17
06DEC1978		20DEC1978		16JAN1979	
0.3	26	0.3	25	0.3	27
1.0	27	1.0	27	1.0	27
1.6	21	1.6	22	1.6	22
2.3	16	2.3	17	2.3	17
3.0	16	3.0	16	3.0	16
3.1	17	3.1	17	3.1	17
31JAN1979		22FEB1979		07MAR1979	
0.3	26	0.3	27	0.3	28
1.0	27	1.0	27	1.0	28
1.6	23	1.6	24	1.6	25
2.3	16	2.3	17	2.3	17
3.0	16	3.0	16	3.0	16
3.1	17	3.1	17	3.2	17

Table 12.--Soil moisture, in percent of total volume, at site 7 --Continued

Sam- pling depth depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth depth (ft)	Soil mois- ture (percent of total volume)
21MAR1979		28MAR1979		12APR1979	
0.3	26	0.3	26	0.3	27
1.0	27	1.0	28	1.0	28
1.6	24	1.6	24	1.6	25
2.3	17	2.3	17	2.3	17
3.0	16	3.0	16	3.0	16
3.2	17	3.2	17	3.2	17
19APR1979		02MAY1979		09MAY1979	
0.3	27	0.3	23	0.3	21
1.0	28	1.0	28	1.0	27
1.6	25	1.6	25	1.6	25
2.3	18	2.3	18	2.3	18
3.0	16	3.0	17	3.0	17
16MAY1979					
0.3	22				
1.0	26				
1.6	25				
2.3	18				
3.0	16				

Table 13.--Soil moisture, in percent of total volume, at site 8

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
18JUL1979		31JUL1979		15AUG1979	
0.3	15	0.3	9	0.3	5
1.0	22	1.0	22	1.0	19
1.6	19	1.6	21	1.6	19
2.3	19	2.3	20	2.3	19
3.0	18	3.0	19	3.0	19
29AUG1979		11SEP1979		26SEP1979	
0.3	11	0.3	7	0.3	9
1.0	23	1.0	23	1.0	21
1.6	20	1.6	21	1.6	20
2.3	19	2.3	21	2.3	20
3.0	19	3.0	19	3.0	19
10OCT1979		23OCT1979		14NOV1979	
0.3	6	0.3	13	0.3	13
1.0	19	1.0	21	1.0	26
1.6	19	1.6	19	1.6	22
2.3	19	2.3	19	2.3	20
3.0	18	3.0	17	3.0	18
09JAN1980		24JAN1980		21FEB1980	
0.3	15	0.3	17	0.3	17
1.0	27	1.0	28	1.0	29
1.6	23	1.6	25	1.6	26
2.3	20	2.3	21	2.3	22
3.0	18	3.0	18	3.0	19

Table 13.--Soil moisture, in percent of total volume, at site 8 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
21MAR1980		03APR1980		16APR1980	
0.3	13	0.3	19	0.3	14
1.0	27	1.0	27	1.0	26
1.6	26	1.6	26	1.6	26
2.3	22	2.3	22	2.3	22
3.0	18	3.0	19	3.0	19
09MAY1980		11JUN1980		10JUL1980	
0.3	14	0.3	11	0.3	5
1.0	26	1.0	24	1.0	17
1.6	24	1.6	24	1.6	17
2.3	22	2.3	21	2.3	19
3.0	18	3.0	18	3.0	18
14AUG1980		24SEP1980		03OCT1980	
0.3	3	0.3	4	0.3	17
1.0	13	1.0	14	1.0	29
1.6	13	1.6	14	1.6	27
2.3	16	2.3	16	2.3	22
3.0	17	3.0	17	3.0	18
25NOV1980		06JAN1981		20FEB1981	
0.3	19	0.3	15	0.3	18
1.0	28	1.0	27	1.0	28
1.6	26	1.6	26	1.6	26
2.3	22	2.3	21	2.3	22
3.0	18	3.0	18	3.0	18

Table 13.--Soil moisture, in percent of total volume, at site 8 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
12MAR1981		02APR1981		14APR1981	
0.3	19	0.3	13	0.3	11
1.0	29	1.0	27	1.0	22
1.6	28	1.6	27	1.6	25
2.3	22	2.3	23	2.3	22
3.0	18	3.0	19	3.0	18
23APR1981		12MAY1981		09JUN1981	
0.3	19	0.3	18	0.3	19
1.0	27	1.0	28	1.0	28
1.6	26	1.6	26	1.6	25
2.3	22	2.3	22	2.3	22
3.0	19	3.0	18	3.0	19
12AUG1981		23SEP1981		30OCT1981	
0.3	9	0.3	8	0.3	20
1.0	20	1.0	19	1.0	29
1.6	21	1.6	19	1.6	26
2.3	20	2.3	19	2.3	21
3.0	18	3.0	18	3.0	18
11DEC1981					
0.3	20				
1.0	28				
1.6	27				
2.3	20				
3.0	18				

Table 14.--Soil moisture, in percent of total volume, at site 10

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
11JUL1978		17AUG1978		24AUG1978	
0.3	5	0.3	4	0.3	4
1.0	11	1.0	9	1.0	8
1.6	20	1.6	14	1.6	13
2.3	24	2.3	20	2.3	19
3.0	27	3.0	23	3.0	23
3.5	29	3.5	25	3.6	25
13SEP1978		27SEP1978		04OCT1978	
0.3	6	0.3	7	0.3	5
1.0	7	1.0	8	1.0	8
1.6	11	1.6	12	1.6	12
2.3	16	2.3	16	2.3	17
3.0	19	3.0	19	3.0	18
3.6	21	3.7	20	3.7	19
25OCT1978		07NOV1978		21NOV1978	
0.3	5	0.3	7	0.3	18
1.0	7	1.0	8	1.0	21
1.6	11	1.6	11	1.6	21
2.3	15	2.3	15	2.3	16
3.0	17	3.0	17	3.0	17
3.6	19	3.6	18	3.6	18
06DEC1978		20DEC1978		16JAN1979	
0.3	17	0.3	17	0.3	19
1.0	20	1.0	20	1.0	20
1.6	22	1.6	22	1.6	21
2.3	24	2.3	24	2.3	23
3.0	21	3.0	23	3.0	23
3.6	19	3.6	19	3.6	21

Table 14.--Soil moisture, in percent of total volume, at site 10 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
31JAN1979		22FEB1979		07MAR1979	
0.3	19	0.3	20	0.3	24
1.0	21	1.0	21	1.0	27
1.6	23	1.6	23		
2.3	25	2.3	25		
3.0	25	3.0	25		
3.6	25	3.6	26		
28MAR1979		02MAY1979		09MAY1979	
0.3	23	0.3	21	0.3	19
0.8	25	1.0	24	1.0	22
16MAY1979		21JUN1979		03JUL1979	
0.3	19	0.3	15	0.3	8
1.0	23	1.0	21	1.0	17
1.6	26	1.6	24	1.6	21
		2.3	27	2.3	25
				3.0	26
19JUL1979		31JUL1979		15AUG1979	
0.3	17	0.3	9	0.3	5
1.0	13	1.0	11	1.0	9
1.6	15	1.6	15	1.6	12
2.3	21	2.3	21	2.3	17
3.0	24	3.0	23	3.0	20
3.6	27	3.6	26	3.6	21

Table 14.--Soil moisture, in percent of total volume, at site 10 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
29AUG1979		11SEP1979		26SEP1979	
0.3	13	0.3	10	0.3	10
1.0	10	1.0	13	1.0	11
1.6	12	1.6	12	1.6	12
2.3	16	2.3	16	2.3	16
3.0	18	3.0	18	3.0	18
3.6	19	3.6	20	3.6	19
10OCT1979		23OCT1979		14NOV1979	
0.3	6	0.3	11	0.3	15
1.0	9	1.0	10	1.0	13
1.6	12	1.6	11	1.6	12
2.3	16	2.3	15	2.3	16
3.0	18	3.0	17	3.0	18
3.4	19	3.6	19	3.6	19
09JAN1980		24JAN1980		20FEB1980	
0.3	17	0.3	19	0.3	18
1.0	19	1.0	21	1.0	21
1.6	15	1.6	23	1.6	23
2.3	16	2.3	19	2.3	25
3.0	19	3.0	19	3.0	25
3.6	19	3.6	20	3.6	25
21MAR1980		03APR1980		16APR1980	
0.3	15	0.3	17	0.3	15
1.0	19	1.0	20	1.0	19
1.6	21	1.6	21	1.6	22
2.3	24	2.3	23	2.3	24
3.0	25	3.0	25	3.0	25
3.6	26	3.6	26		

Table 14.--Soil moisture, in percent of total volume, at site 10 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
09MAY1980		11JUN1980		10JUL1980	
0.3	19	0.3	17	0.3	5
1.0	23	1.0	22	1.0	9
1.6	25	1.6	25	1.6	17
		2.0	26	2.3	22
				3.0	25
				3.6	28
14AUG1980		23SEP1980		03OCT1980	
0.3	4	0.3	4	0.3	18
1.0	7	1.0	7	1.0	20
1.6	11	1.6	10	1.6	23
2.3	15	2.3	15	2.3	24
3.0	17	3.0	16	3.0	25
3.6	18	3.6	16	3.6	25
25NOV1980		06JAN1981		20FEB1981	
0.3	20	0.3	19	0.3	24
1.0	22	1.0	22		
1.6	23	1.6	25		
2.3	26	2.0	26		
3.0	26				
3.6	26				
02APR1981		12AUG1981		23SEP1981	
0.3	23	0.3	8	0.3	8
1.0	26	1.0	12	1.0	14
		1.6	17	1.6	17
		2.3	22	2.3	21
		3.0	25	3.0	24
		3.6	26	3.6	25
30OCT1981					
0.3	25				

Table 15.--Soil moisture, in percent of total volume, at site 12

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
11JUL1978		17AUG1978		24AUG1978	
0.3	6	0.3	6	0.3	6
1.0	16	1.0	15	1.0	15
1.6	25	1.6	19	1.6	19
2.3	26	2.3	22	2.3	20
3.0	25	3.0	25	3.0	23
3.5	26	3.2	25	3.3	25
13SEP1978		27SEP1978		04OCT1978	
0.3	7	0.3	8	0.3	7
1.0	14	1.0	15	1.0	15
1.6	18	1.6	17	1.6	18
2.3	18	2.3	18	2.3	18
3.0	20	3.0	19	3.0	19
3.3	21	3.3	21	3.2	20
25OCT1978		07NOV1978		21NOV1978	
0.3	7	0.3	9	0.3	24
1.0	15	1.0	15	1.0	25
1.6	17	1.6	17	1.6	20
2.3	17	2.3	17	2.3	19
3.0	18	3.0	18	3.0	19
3.2	19	3.2	19	3.2	20
06DEC1978		20DEC1978		16JAN1979	
0.3	22	0.3	19	0.3	22
1.0	26	1.0	26	1.0	25
1.6	25	1.6	26	1.6	25
2.3	22	2.3	24	2.3	22
3.0	21	3.0	21	3.0	21
3.2	21	3.3	21	3.2	21

Table 15.--Soil moisture, in percent of total volume, at site 12 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
31JAN1979		22FEB1979		07MAR1979	
0.3	23	0.3	25	0.3	28
1.0	26	1.0	23	1.0	29
1.6	26	1.6	26	1.6	28
2.3	24	2.3	26	2.3	27
3.0	25	3.0	26	3.0	26
3.3	25	3.2	27	3.2	26
21MAR1979		28MAR1979		12APR1979	
0.3	29	0.3	27	0.3	29
1.0	28	1.0	29		
1.6	27				
1.9	28				
19APR1979		02MAY1979		09MAY1979	
0.3	29	0.3	26	0.3	25
16MAY1979		31MAY1979		21JUN1979	
0.3	24	0.3	23	0.3	17
				1.0	27
				1.6	29
03JUL1979		19JUL1979		31JUL1979	
0.3	9	0.3	19	0.3	14
1.0	21	1.0	24	1.0	21
1.6	27	1.6	25	1.6	22
2.3	27	2.3	25	2.3	23
		2.7	25	3.0	25

Table 15.--Soil moisture, in percent of total volume, at site 12 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
15AUG1979		29AUG1979		11SEP1979	
0.3	8	0.3	17	0.3	16
1.0	17	1.0	19	1.0	23
1.6	20	1.6	20	1.6	23
2.3	20	2.3	19	2.3	23
3.0	21	3.0	19	3.0	23
26SEP1979		10OCT1979		18OCT1979	
0.3	15	0.3	10	0.3	11
1.0	20	1.0	19	1.0	18
1.6	22	1.6	21	1.6	21
2.3	21	2.3	21	2.3	21
3.0	21	3.0	21	3.0	20
23OCT1979		14NOV1979		09JAN1980	
0.3	17	0.3	21	0.3	22
1.0	19	1.0	25	1.0	25
1.6	21	1.6	25	1.6	25
2.3	20	2.3	24	2.3	23
3.0	20	3.0	23	3.0	23
24JAN1980		20FEB1980		21MAR1980	
0.3	23	0.3	23	0.3	20
1.0	26	1.0	27	1.0	25
1.6	25			1.6	27
2.3	25				
3.0	24				

Table 15.--Soil moisture, in percent of total volume, at site 12 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
03APR1980		16APR1980		09MAY1980	
0.3	25	0.3	23	0.3	26
0.6	27	1.0	27	0.6	27
11JUN1980		10JUL1980		14AUG1980	
0.3	24	0.3	8	0.3	7
1.0	28	1.0	17	1.0	14
		1.6	21	1.6	17
		2.3	25	2.3	17
		3.0	26	3.0	16
23SEP1980		03OCT1980		25NOV1980	
0.3	1	0.3	22	0.3	24
1.0	9	1.0	26	1.0	27
1.6	16	1.6	26	1.6	26
2.3	16	2.3	25	2.3	25
3.0	16	3.0	24	3.0	25
3.6	16				
06JAN1981		12AUG1981		23SEP1981	
0.3	25	0.3	10	0.3	9
0.6	27	1.0	17	1.0	17
		1.6	19	1.6	19
				2.3	20
				3.0	24

Table 16.--Soil moisture, in percent of total volume, at site 13

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
13SEP1978		27SEP1978		04OCT1978	
0.3	10	0.3	11	0.3	10
1.0	13	1.0	13	1.0	13
1.6	13	1.6	13	1.6	13
2.3	15	2.3	15	2.3	15
3.0	17	3.0	16	3.0	17
3.6	17	3.6	16	3.6	16
4.3	16	4.3	15	4.3	15
5.0	18	5.0	17	5.0	18
5.6	19	5.6	19	5.6	19
6.3	21	6.3	20	6.3	19
7.0	22	7.0	22	7.0	21
7.6	23	7.6	23	7.6	22
8.3	21	8.3	20	8.3	21
24OCT1978		07NOV1978		21NOV1978	
0.3	10	0.3	12	0.3	23
1.0	13	1.0	13	1.0	17
1.6	13	1.6	13	1.6	13
2.3	14	2.3	14	2.3	15
3.0	16	3.0	16	3.0	17
3.6	15	3.6	15	3.6	16
4.3	15	4.3	15	4.3	16
5.0	17	5.0	17	5.0	18
5.6	19	5.6	18	5.6	18
6.3	19	6.3	19	6.3	19
7.0	21	7.0	20	7.0	20
7.6	22	7.6	21	7.6	21
8.3	20	8.3	19	8.3	19

Table 16.--Soil moisture, in percent of total volume, at site 13 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
06DEC1978		20DEC1978		16JAN1979	
0.3	22	0.3	22	0.3	23
1.0	20	1.0	20	1.0	19
1.6	13	1.6	13	1.6	13
2.3	15	2.3	15	2.3	14
3.0	17	3.0	17	3.0	16
3.6	16	3.6	16	3.6	15
4.3	15	4.3	15	4.3	15
5.0	17	5.0	17	5.0	17
5.6	18	5.6	19	5.6	18
6.3	19	6.3	19	6.3	19
7.0	21	7.0	21	7.0	20
7.6	21	7.6	22	7.6	21
8.3	19	8.3	20	8.3	19
31JAN1979		22FEB1979		07MAR1979	
0.3	23	0.3	24	0.3	25
1.0	20	1.0	21	1.0	23
1.6	14	1.6	15	1.6	16
2.3	14	2.3	14	2.3	15
3.0	16	3.0	16	3.0	17
3.6	15	3.6	15	3.6	15
4.3	15	4.3	15	4.3	15
5.0	17	5.0	16	5.0	17
5.6	18	5.6	17	5.6	20
6.3	19	6.3	18		
7.0	20	7.0	19		
7.6	21	7.6	21		
8.3	19	8.3	23		

Table 16.--Soil moisture, in percent of total volume, at site 13 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
21MAR1979		28MAR1979		12APR1979	
0.3	23	0.3	22	0.3	22
1.0	21	1.0	21	1.0	21
1.6	16	1.6	16	1.6	17
2.3	14	2.3	15	2.3	14
3.0	16	3.0	16	3.0	16
3.6	15	3.6	15	3.6	15
4.3	15	4.3	15	4.3	19
4.6	16				
19APR1979		02MAY1979		09MAY1979	
0.3	23	0.3	18	0.3	15
1.0	21	1.0	21	1.0	21
1.6	17	1.6	17	1.6	17
2.3	15	2.3	15	2.3	15
3.0	16	3.0	16	3.0	16
3.6	17	3.6	20	3.6	20
4.3	21	4.3	22	4.3	22
16MAY1979		21JUN1979		03JUL1979	
0.3	15	0.3	11	0.3	9
1.0	20	1.0	17	1.0	14
1.6	17	1.6	17	1.6	16
2.3	15	2.3	15	2.3	15
3.0	17	3.0	19	3.0	19
3.6	21	3.6	23	3.6	22
4.3	23	4.0	23	4.3	23
5.0	24			5.0	24

Table 16.--Soil moisture, in percent of total volume, at site 13 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
19JUL1979		31JUL1979		15AUG1979	
0.3	17	0.3	12	0.3	9
1.0	14	1.0	14	1.0	13
1.6	14	1.6	14	1.6	13
2.3	15	2.3	15	2.3	14
3.0	19	3.0	19	3.0	18
3.6	21	3.6	21	3.6	20
4.3	21	4.3	21	4.3	20
5.0	23	5.0	23	5.0	22
5.6	23	5.6	23	5.6	23
6.2	25	6.3	25	6.3	24
				7.0	25
29AUG1979		11SEP1979		26SEP1979	
0.3	17	0.3	12	0.3	11
1.0	14	1.0	14	1.0	13
1.6	13	1.6	13	1.6	13
2.3	15	2.3	15	2.3	14
3.0	18	3.0	18	3.0	17
3.6	19	3.6	19	3.6	19
4.3	19	4.3	19	4.3	18
5.0	22	5.0	21	5.0	21
5.6	23	5.6	22	5.6	21
6.3	24	6.3	23	6.3	22
7.0	25	7.0	24	7.0	23
7.6	25	7.6	25	7.6	24

Table 16.--Soil moisture, in percent of total volume, at site 13 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
10OCT1979		23OCT1979		14NOV1979	
0.3	9	0.3	17	0.3	19
1.0	13	1.0	13	1.0	14
1.6	13	1.6	13	1.6	13
2.3	14	2.3	15	2.3	15
3.0	17	3.0	17	3.0	17
3.6	18	3.6	18	3.6	18
4.3	18	4.3	17	4.3	17
5.0	19	5.0	19	5.0	19
5.6	21	5.6	21	5.6	21
6.3	22	6.3	21	6.3	21
7.0	23	7.0	23	7.0	22
7.6	23	7.6	23	7.6	23
8.2	21	8.1	21	8.2	21
07DEC1979		09JAN1980		24JAN1980	
0.3	17	0.3	21	0.3	23
1.0	14	1.0	15	1.0	16
1.6	13	1.6	13	1.6	13
2.3	14	2.3	15	2.3	14
3.0	17	3.0	17	3.0	17
3.6	17	3.6	17	3.6	17
4.3	17	4.3	17	4.3	17
5.0	19	5.0	19	5.0	19
5.6	20	5.6	20	5.6	21
6.3	21	6.3	21	6.3	21
7.0	22	7.0	23	7.0	23
7.6	23	7.6	23	7.6	23
8.2	20	8.2	21	8.0	22

Table 16.--Soil moisture, in percent of total volume, at site 13 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
21FEB1980		21MAR1980		03APR1980	
0.3	21	0.3	15	0.3	18
1.0	20	1.0	18	1.0	17
1.6	13	1.6	13	1.6	13
2.3	14	2.3	15	2.3	15
3.0	17	3.0	17	3.0	17
3.6	18	3.6	17	3.6	18
4.3	17	4.3	17	4.3	17
5.0	19	5.0	19	5.0	19
5.6	21	5.6	21	5.6	21
6.3	22	6.3	23	6.3	23
7.0	24	7.0	25	7.0	24
7.2	24				
16APR1980		09MAY1980		11JUN1980	
0.3	13	0.3	16	0.3	12
1.0	17	1.0	15	1.0	15
1.6	14	1.6	14	1.6	13
2.3	15	2.3	15	2.3	15
3.0	18	3.0	17	3.0	18
3.6	18	3.6	18	3.6	18
4.3	17	4.3	18	4.3	17
5.0	20	5.0	20	5.0	21
5.6	21	5.6	22	5.6	23
6.3	23	6.3	23	6.3	24
7.0	25	7.0	24		

Table 16.--Soil moisture, in percent of total volume, at site 13 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
10JUL1980		14AUG1980		24SEP1980	
0.3	8	0.3	8	0.3	8
1.0	12	1.0	12	1.0	12
1.6	12	1.6	12	1.6	12
2.3	14	2.3	14	2.3	13
3.0	17	3.0	16	3.0	15
3.6	17	3.6	15	3.6	14
4.3	17	4.3	15	4.3	14
5.0	20	5.0	17	5.0	16
5.6	22	5.6	19	5.6	17
6.3	23	6.3	20	6.3	18
7.0	24	7.0	22	7.0	19
7.6	24	7.6	23	7.6	20
		8.2	20	8.2	19
03OCT1980		25NOV1980		06JAN1981	
0.3	22	0.3	23	0.3	20
1.0	17	1.0	18	1.0	19
1.6	12	1.6	12	1.6	13
2.3	13	2.3	13	2.3	13
3.0	15	3.0	15	3.0	15
3.6	14	3.6	14	3.6	14
4.3	14	4.3	14	4.3	14
5.0	16	5.0	16	5.0	16
5.6	17	5.6	17	5.6	18
6.3	18	6.3	18	6.0	17
7.0	19	7.0	19		
7.6	20	7.6	20		
8.2	19	8.1	20		

Table 16.--Soil moisture, in percent of total volume, at site 13 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
07JAN1981		20FEB1981		12MAR1981	
0.3	20	0.3	22	0.3	22
1.0	19	1.0	20	1.0	19
1.6	13	1.6	13	1.6	14
2.3	13	2.3	14	2.3	13
3.0	15	3.0	15	3.0	15
3.6	14	3.6	15	3.6	14
4.3	14	4.3	15	4.3	14
5.0	16	5.0	17	5.0	16
5.6	17	5.6	18	5.6	18
6.3	18	6.3	19	6.3	20
7.0	20	7.0	20	6.6	23
7.6	21	7.6	23		
8.0	21				
02APR1981		22APR1981		23APR1981	
0.3	16	0.3	18	0.3	21
1.0	19	1.0	17	1.0	17
1.6	13	1.6	13	1.6	13
2.3	13	2.3	13	2.3	13
3.0	15	3.0	15	3.0	15
3.6	14	3.6	14	3.6	14
4.3	14	4.3	14	4.3	14
5.0	17	5.0	16	5.0	17
5.6	19	5.6	20	5.6	20
6.3	22	6.3	23	6.3	23
6.9	24	6.6	24	6.6	24

Table 16.--Soil moisture, in percent of total volume, at site 13 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
	12MAY1981		09JUN1981		12AUG1981
0.3	18	0.3	21	0.3	10
1.0	16	1.0	18	1.0	13
1.6	13	1.6	14	1.6	12
2.3	13	2.3	13		
3.0	15	3.0	15		
3.6	14	3.6	14		
4.3	14	4.3	14		
5.0	16	5.0	18		
5.6	20	5.3	21		
6.3	24				

Table 17.--Soil moisture, in percent of total volume, at site 14

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
31MAY1978		17AUG1978		24AUG1978	
0.3	20	0.3	9	0.3	9
1.0	19	1.0	14	1.0	13
1.6	20	1.6	15	1.6	15
2.3	19	2.3	17	2.3	17
3.0	19	3.0	19	3.0	19
3.6	20	3.6	19	3.6	19
4.3	20	4.3	19	4.3	20
5.0	22	5.0	21	5.0	21
5.6	23	5.6	22	5.6	23
6.3	24				
13SEP1978		27SEP1978		04OCT1978	
0.3	8	0.3	8	0.3	9
1.0	13	1.0	14	1.0	14
1.6	14	1.6	15	1.6	15
2.3	16	2.3	16	2.3	17
3.0	18	3.0	18	3.0	18
3.6	19	3.6	18	3.6	19
4.3	19	4.3	19	4.3	20
5.0	21	5.0	20	5.0	21
5.6	22	5.6	21	5.6	22
25OCT1978		07NOV1978		21NOV1978	
0.3	9	0.3	11	0.3	26
1.0	13	1.0	14	1.0	21
1.6	14	1.6	15	1.6	18
2.3	16	2.3	16	2.3	17
3.0	18	3.0	17	3.0	17
3.6	18	3.6	18	3.6	18
4.3	19	4.3	19	4.3	19
5.0	20	5.0	20	5.0	20
5.6	22	5.6	21	5.6	21

Table 17.--Soil moisture, in percent of total volume, at site 14 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
06DEC1978		20DEC1978		16JAN1979	
0.3	24	0.3	25	0.3	24
1.0	21	1.0	23	1.0	21
1.6	17	1.6	18	1.6	17
2.3	16	2.3	17	2.3	16
3.0	17	3.0	18	3.0	17
3.6	18	3.6	19	3.6	18
4.3	18	4.3	20	4.3	18
5.0	20	5.0	21	5.0	19
5.6	21	5.6	23	5.6	21
31JAN1979		22FEB1979		07MAR1979	
0.3	26	0.3	26	0.3	26
1.0	22	1.0	23	1.0	22
1.6	17	1.6	17	1.6	17
2.3	17	2.3	17	2.3	17
3.0	18	3.0	18	3.0	17
3.6	18	3.6	18	3.6	17
4.3	19	4.3	19	4.3	17
5.0	20	5.0	20	5.0	19
5.6	21	5.6	21	5.6	19
21MAR1979		28MAR1979		12APR1979	
0.3	24	0.3	23	0.3	24
1.0	22	1.0	23	1.0	23
1.6	17	1.6	18	1.6	18
2.3	16	2.3	17	2.3	17
3.0	17	3.0	17	3.0	17
3.6	17	3.6	18	3.6	18
4.3	19	4.3	19	4.3	19
5.0	19	5.0	20	5.0	20
5.6	21	5.6	21	5.6	21

Table 17.--Soil moisture, in percent of total volume, at site 14 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
19APR1979		02MAY1979		09MAY1979	
0.3	25	0.3	20	0.3	17
1.0	23	1.0	23	1.0	22
1.6	19	1.6	19	1.6	19
2.3	17	2.3	17	2.3	17
3.0	18	3.0	18	3.0	18
3.6	18	3.6	18	3.6	18
4.3	19	4.3	19	4.3	19
5.0	20	5.0	20	5.0	20
5.6	21	5.6	22	5.6	21
16MAY1979		31MAY1979		21JUN1979	
0.3	16	0.3	20	0.3	12
1.0	22	1.0	21	1.0	18
1.6	19	1.6	19	1.6	19
2.3	17	2.3	17	2.3	17
3.0	18	3.0	18	3.0	18
3.6	18	3.6	18	3.6	18
4.3	19	4.3	19	4.3	19
5.0	20	5.0	20	5.0	20
5.6	21	5.6	21	5.6	22
03JUL1979		19JUL1979		31JUL1979	
0.3	11	0.3	17	0.3	12
1.0	16	1.0	15	1.0	15
1.6	17	1.6	16	1.6	16
2.3	17	2.3	17	2.3	17
3.0	18	3.0	18	3.0	18
3.6	18	3.6	19	3.6	18
4.3	19	4.3	19	4.3	19
5.0	21	5.0	20	5.0	20
5.6	22	5.6	21	5.6	21

Table 17.--Soil moisture, in percent of total volume, at site 14 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
15AUG1979		29AUG1979		11SEP1979	
0.3	9	0.3	15	0.3	11
1.0	15	1.0	15	1.0	15
1.6	15	1.6	15	1.6	15
2.3	17	2.3	16	2.3	17
3.0	18	3.0	18	3.0	18
3.6	19	3.6	18	3.6	18
4.3	19	4.3	19	4.3	19
5.0	20	5.0	20	5.0	20
5.6	21	5.6	21	5.6	21
26SEP1979		10OCT1979		23OCT1979	
0.3	12	0.3	9	0.3	13
1.0	14	1.0	14	1.0	13
1.6	15	1.6	15	1.6	15
2.3	17	2.3	16	2.3	16
3.0	17	3.0	17	3.0	18
3.6	18	3.6	18	3.6	18
4.3	19	4.3	19	4.3	19
5.0	20	5.0	20	5.0	19
5.6	21	5.6	21	5.6	21
14NOV1979		07DEC1979		28DEC1979	
0.3	16	0.3	14	0.3	21
1.0	14	1.0	15	1.0	15
1.6	15	1.6	15	1.6	15
2.3	17	2.3	16	2.3	16
3.0	18	3.0	18	3.0	17
3.6	18	3.6	18	3.6	18
4.3	19	4.3	19	4.3	19
5.0	20	5.0	20	5.0	20
5.6	21	5.6	21	5.6	21

Table 17.--Soil moisture, in percent of total volume, at site 14 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
09JAN1980		24JAN1980		20FEB1980	
0.3	20	0.3	24	0.3	21
1.0	15	1.0	16	1.0	19
1.6	15	1.6	15	1.6	15
2.3	16	2.3	17	2.3	16
3.0	17	3.0	17	3.0	18
3.6	18	3.6	18	3.6	18
4.3	18	4.3	19	4.3	19
5.0	19	5.0	19	5.0	19
5.6	21	5.6	21	5.6	21
21MAR1980		03APR1980		16APR1980	
0.3	20	0.3	20	0.3	19
1.0	18	1.0	20	1.0	19
1.6	15	1.6	16	1.6	16
2.3	17	2.3	16	2.3	16
3.0	17	3.0	17	3.0	18
3.6	18	3.6	18	3.6	18
4.3	18	4.3	19	4.3	19
5.0	20	5.0	20	5.0	20
5.6	21	5.6	21	5.6	21
09MAY1980		11JUN1980		10JUL1980	
0.3	20	0.3	16	0.3	10
1.0	19	1.0	18	1.0	14
1.6	16	1.6	16	1.6	16
2.3	17	2.3	17	2.3	16
3.0	18	3.0	18	3.0	17
3.6	18	3.6	18	3.6	18
4.3	19	4.3	19	4.3	19
5.0	20	5.0	20	5.0	20
5.6	21	5.6	21	5.6	21

Table 17.--Soil moisture, in percent of total volume, at site 14 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
14AUG1980		23SEP1980		03OCT1980	
0.3	8	0.3	8	0.3	25
1.0	13	1.0	12	1.0	22
1.6	14	1.6	14	1.6	16
2.3	16	2.3	16	2.3	17
3.0	18	3.0	18	3.0	18
3.6	18	3.6	18	3.6	18
4.3	19	4.3	19	4.3	19
5.0	20	5.0	19	5.0	20
5.6	21	5.6	20	5.6	22
25NOV1980		06JAN1981		20FEB1981	
0.3	25	0.3	22	0.3	23
1.0	21	1.0	22	1.0	22
1.6	16	1.6	16	1.6	16
2.3	16	2.3	16	2.3	16
3.0	17	3.0	17	3.0	18
3.6	18	3.6	18	3.6	18
4.3	18	4.3	18	4.3	18
5.0	19	5.0	20	5.0	19
5.6	21	5.6	21	5.6	21
12MAR1981		02APR1981		23APR1981	
0.3	24	0.3	20	0.3	22
1.0	21	1.0	21	1.0	20
1.6	16	1.6	17	1.6	16
2.3	16	2.3	16	2.3	16
3.0	18	3.0	18	3.0	18
3.6	18	3.6	18	3.6	18
4.3	18	4.3	19	4.3	19
5.0	19	5.0	19	5.0	19
5.6	20	5.6	21	5.6	21

Table 17.--Soil moisture, in percent of total volume, at site 14 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
12MAY1981		09JUN1981		12AUG1981	
0.3	22	0.3	22	0.3	14
1.0	20	1.0	18	1.0	19
1.6	16	1.6	17	1.6	17
2.3	16	2.3	17	2.3	17
3.0	18	3.0	18	3.0	19
3.6	18	3.6	18	3.6	18
4.3	18	4.3	19	4.3	19
5.0	19	5.0	19	5.0	20
5.6	21	5.6	21	5.6	21
08SEP1981		23SEP1981		30OCT1981	
0.3	18	0.3	12	0.3	26
1.0	20	1.0	18	1.0	23
1.6	17	1.6	17	1.6	18
2.3	18	2.3	17	2.3	17
3.0	18	3.0	18	3.0	18
3.6	18	3.6	18	3.6	18
4.3	19	4.3	19	4.3	19
5.0	20	5.0	20	5.0	19
5.6	20	5.6	21	5.6	20
11DEC1981					
0.3	25				
1.0	23				
1.6	19				
2.3	18				
3.0	18				
3.6	18				
4.3	18				
5.0	18				
5.6	20				

Table 18.--Soil moisture, in percent of total volume, at site 15

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
31MAY1978		17AUG1978		24AUG1978	
0.3	23	0.3	5	0.3	5
1.0	23	1.0	9	1.0	9
1.6	23	1.6	14	1.6	14
2.3	23	2.3	17	2.3	17
3.0	25	3.0	19	3.0	19
3.6	19	3.6	17	3.6	17
4.3	19	4.3	18	4.3	18
5.0	19	5.0	19	5.0	19
5.6	20	5.6	21	5.6	21
6.3	21	6.3	21	6.3	21
7.0	22	7.0	22	7.0	22
7.6	22	7.6	23	7.6	22
8.3	21	8.3	22	8.3	21
		8.5	22	8.4	21
13SEP1978		27SEP1978		04OCT1978	
0.3	6	0.3	5	0.3	5
1.0	8	1.0	9	1.0	9
1.6	13	1.6	14	1.6	14
2.3	16	2.3	16	2.3	17
3.0	19	3.0	18	3.0	18
3.6	17	3.6	17	3.6	17
4.3	17	4.3	17	4.3	17
5.0	19	5.0	19	5.0	19
5.6	21	5.6	20	5.6	21
6.3	21	6.3	21	6.3	21
7.0	21	7.0	21	7.0	21
7.6	22	7.6	21	7.6	21
8.3	21	8.3	21	8.3	21
8.5	20	8.6	20	8.5	20

Table 18.--Soil moisture, in percent of total volume, at site 15 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
25OCT1978		08NOV1978		21NOV1978	
0.3	5	0.3	10	0.3	22
1.0	9	1.0	8	1.0	17
1.6	14	1.6	14	1.6	18
2.3	16	2.3	16	2.3	17
3.0	18	3.0	17	3.0	17
3.6	17	3.6	16	3.6	16
4.3	17	4.3	17	4.3	17
5.0	19	5.0	18	5.0	18
5.6	20	5.6	20	5.6	19
6.3	20	6.3	20	6.3	20
7.0	21	7.0	20	7.0	21
7.6	21	7.6	21	7.6	20
8.3	20	8.3	20	8.3	19
8.5	20	8.4	20	8.4	19
06DEC1978		20DEC1978		16JAN1979	
0.3	22	0.3	22	0.3	26
1.0	21	1.0	22	1.0	26
1.6	20	1.6	22	1.6	21
2.3	17	2.3	19	2.3	18
3.0	17	3.0	19	3.0	17
3.6	16	3.6	17	3.6	16
4.3	17	4.3	18	4.3	17
5.0	18	5.0	20	5.0	18
5.6	19	5.6	21	5.6	19
6.3	20	6.3	22	6.3	20
7.0	20	7.0	22	7.0	20
7.6	21	7.6	22	7.6	20
8.3	20	8.3	21	8.3	19
8.5	20	8.4	21	8.4	19

Table 18.--Soil moisture, in percent of total volume, at site 15 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
31JAN1979		22FEB1979		07MAR1979	
0.3	26	0.3	31	0.3	26
1.0	29	1.0	29	1.0	27
1.6	24	1.6	23	1.6	23
2.3	19	2.3	19	2.3	18
3.0	18	3.0	18	3.0	17
3.6	17	3.6	17	3.6	16
4.3	17	4.3	17	4.3	16
5.0	19	5.0	18	5.0	17
5.6	20	5.6	19	5.6	19
6.3	21	6.3	20	6.3	19
7.0	21	7.0	21	7.0	20
7.6	21	7.6	21	7.6	21
8.3	21	8.3	20	8.3	20
8.4	20	8.4	20	8.4	19
21MAR1979		28MAR1979		12APR1979	
0.3	29	0.3	25	0.3	27
1.0	27	1.0	27	1.0	27
1.6	23	1.6	23	1.6	24
2.3	19	2.3	20	2.3	20
3.0	18	3.0	18	3.0	18
3.6	17	3.6	16	3.6	16
4.3	17	4.3	17	4.3	17
5.0	19	5.0	18	5.0	18
5.6	19	5.6	19	5.6	19
6.3	20	6.3	20	6.3	21
7.0	20	7.0	21	7.0	21
7.6	21	7.6	21	7.6	21
8.3	20	8.3	20	8.3	20

Table 18.--Soil moisture, in percent of total volume, at site 15 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
19APR1979		02MAY1979		09MAY1979	
0.3	29	0.3	22	0.3	19
1.0	28	1.0	26	1.0	25
1.6	24	1.6	24	1.6	23
2.3	20	2.3	21	2.3	21
3.0	19	3.0	19	3.0	19
3.6	16	3.6	17	3.6	17
4.3	17	4.3	17	4.3	17
5.0	19	5.0	18	5.0	18
5.6	19	5.6	20	5.6	20
6.3	20	6.3	20	6.3	20
7.0	21	7.0	21	7.0	21
7.6	21	7.6	21	7.6	21
8.3	20	8.3	20	8.3	20
16MAY1979		31MAY1979		21JUN1979	
0.3	17	0.3	24	0.3	17
1.0	26	1.0	28	1.0	25
1.6	23	1.6	24	1.6	23
2.3	21	2.3	22	2.3	21
3.0	19	3.0	19	3.0	19
3.6	16	3.6	17	3.6	17
4.3	17	4.3	17	4.3	17
5.0	18	5.0	18	5.0	19
5.6	19	5.6	19	5.6	20
6.3	20	6.3	20	6.3	20
7.0	21	7.0	21	7.0	21
7.6	21	7.6	21	7.6	21
8.3	20	8.3	20	8.3	20

Table 18.--Soil moisture, in percent of total volume, at site 15 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
03JUL1979		19JUL1979		31JUL1979	
0.3	9	0.3	23	0.3	15
1.0	19	1.0	23	1.0	18
1.6	23	1.6	22	1.6	21
2.3	21	2.3	21	2.3	21
3.0	19	3.0	19	3.0	19
3.6	17	3.6	17	3.6	17
4.3	17	4.3	17	4.3	17
5.0	19	5.0	19	5.0	19
5.6	20	5.6	20	5.6	20
6.3	20	6.3	21	6.3	21
7.0	21	7.0	21	7.0	21
7.6	21	7.6	21	7.6	21
8.3	20	8.3	20	8.3	20
15AUG1979		29AUG1979		11SEP1979	
0.3	7	0.3	13	0.3	9
1.0	11	1.0	11	1.0	13
1.6	18	1.6	17	1.6	20
2.3	21	2.3	20	2.3	20
3.0	19	3.0	20	3.0	19
3.6	17	3.6	17	3.6	17
4.3	17	4.3	17	4.3	17
5.0	19	5.0	19	5.0	19
5.6	20	5.6	20	5.6	19
6.3	21	6.3	21	6.3	20
7.0	21	7.0	21	7.0	21
7.6	21	7.6	21	7.6	21
8.3	20	8.3	20	8.3	20

Table 18.--Soil moisture, in percent of total volume, at site 15 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
26SEP1979		10OCT1979		23OCT1979	
0.3	7	0.3	5	0.3	11
1.0	9	1.0	9	1.0	9
1.6	17	1.6	15	1.6	17
2.3	19	2.3	19	2.3	19
3.0	19	3.0	19	3.0	19
3.6	17	3.6	17	3.6	17
4.3	17	4.3	17	4.3	17
5.0	18	5.0	18	5.0	18
5.6	19	5.6	19	5.6	20
6.3	20	6.3	20	6.3	20
7.0	21	7.0	21	7.0	21
7.6	21	7.6	21	7.6	21
8.3	20	8.3	20	8.3	20
14NOV1979		09JAN1980		24JAN1980	
0.3	16	0.3	17	0.3	25
1.0	11	1.0	10	1.0	23
1.6	18	1.6	17	1.6	21
2.3	19	2.3	19	2.3	20
3.0	19	3.0	19	3.0	19
3.6	17	3.6	17	3.6	17
4.3	17	4.3	17	4.3	17
5.0	18	5.0	18	5.0	19
5.6	19	5.6	19	5.6	19
6.3	21	6.3	20	6.3	20
7.0	21	7.0	21	7.0	21
7.6	21	7.6	20	7.6	21
8.3	20	8.3	19	8.3	19

Table 18.--Soil moisture, in percent of total volume, at site 15 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
20FEB1980		21MAR1980		03APR1980	
0.3	25	0.3	17	0.3	25
1.0	25	1.0	21	1.0	27
1.6	22	1.6	21	1.6	21
2.3	20	2.3	20	2.3	20
3.0	19	3.0	19	3.0	19
3.6	17	3.6	17	3.6	17
4.3	17	4.3	17	4.3	17
5.0	18	5.0	18	5.0	19
5.6	19	5.6	20	5.6	19
6.3	20	6.3	20	6.3	20
7.0	21	7.0	21	7.0	21
7.6	21	7.6	21	7.6	21
8.3	20	8.3	20	8.3	20
16APR1980		09MAY1980		11JUN1980	
0.3	18	0.3	21	0.3	15
1.0	24	1.0	26	1.0	21
1.6	22	1.6	21	1.6	22
2.3	20	2.3	20	2.3	20
3.0	19	3.0	19	3.0	19
3.6	17	3.6	17	3.6	17
4.3	17	4.3	17	4.3	18
5.0	19	5.0	18	5.0	19
5.6	20	5.6	20	5.6	20
6.3	20	6.3	20	6.3	20
7.0	22	7.0	21	7.0	20
7.6	21	7.6	21	7.6	21
8.3	20	8.3	20	8.3	20

Table 18.--Soil moisture, in percent of total volume, at site 15 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
10JUL1980		14AUG1980		23SEP1980	
0.3	5	0.3	4	0.3	4
1.0	10	1.0	7	1.0	7
1.6	16	1.6	14	1.6	13
2.3	19	2.3	16	2.3	16
3.0	19	3.0	18	3.0	17
3.6	17	3.6	17	3.6	16
4.3	17	4.3	17	4.3	17
5.0	18	5.0	19	5.0	18
5.6	20	5.6	20	5.6	19
6.3	20	6.3	20	6.3	20
7.0	21	7.0	21	7.0	20
7.6	21	7.6	21	7.6	20
8.3	20	8.3	20	8.3	20
03OCT1980		25NOV1980		06JAN1981	
0.3	24	0.3	23	0.3	21
1.0	21	1.0	24	1.0	23
1.6	20	1.6	20	1.6	22
2.3	19	2.3	18	2.3	19
3.0	19	3.0	19	3.0	20
3.6	17	3.6	16	3.6	17
4.3	17	4.3	16	4.3	17
5.0	18	5.0	18	5.0	18
5.6	20	5.6	19	5.6	20
6.3	20	6.3	20	6.3	20
7.0	20	7.0	20	7.0	20
7.6	21	7.6	20	7.6	20
8.3	20	8.3	20	8.3	20

Table 18.--Soil moisture, in percent of total volume, at site 15 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
20FEB1981		12MAR1981		02APR1981	
0.3	22	0.3	25	0.3	19
1.0	26	1.0	26	1.0	23
1.6	22	1.6	22	1.6	22
2.3	19	2.3	19	2.3	20
3.0	20	3.0	19	3.0	20
3.6	17	3.6	17	3.6	18
4.3	18	4.3	17	4.3	17
5.0	18	5.0	18	5.0	18
5.6	20	5.6	19	5.6	20
6.3	20	6.3	20	6.3	20
7.0	21	7.0	20	7.0	21
7.6	21	7.6	20	7.6	21
8.3	20	8.3	20	8.3	20
14APR1981		23APR1981		12MAY1981	
0.3	15	0.3	24	0.3	23
1.0	20	1.0	25	1.0	24
1.6	21	1.6	21	1.6	22
2.3	19	2.3	19	2.3	19
3.0	19	3.0	20	3.0	19
3.6	17	3.6	17	3.6	17
4.3	17	4.3	17	4.3	17
5.0	18	5.0	18	5.0	18
5.6	19	5.6	20	5.6	20
6.3	20	6.3	20	6.3	20
7.0	20	7.0	21	7.0	20
7.6	20	7.6	21	7.6	20
8.3	20	8.3	20	8.3	19

Table 18.--Soil moisture, in percent of total volume, at site 15 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
09JUN1981		12AUG1981		23SEP1981	
0.3	23	0.3	8	0.3	7
1.0	25	1.0	12	1.0	11
1.6	23	1.6	19	1.6	18
2.3	21	2.3	21	2.3	20
3.0	20	3.0	21	3.0	21
3.6	18	3.6	19	3.6	19
4.3	18	4.3	19	4.3	19
5.0	19	5.0	20	5.0	19
5.6	20	5.6	20	5.6	19
6.3	21	6.3	20	6.3	20
7.0	21	7.0	21	7.0	21
7.6	21	7.6	21	7.6	21
8.3	20	8.3	20	8.3	21
30OCT1981		11DEC1981			
0.3	23	0.3	26		
1.0	25	1.0	24		
1.6	23	1.6	21		
2.3	19	2.3	21		
3.0	20	3.0	20		
3.6	20	3.6	19		
4.3	18	4.3	18		
5.0	18	5.0	19		
5.6	18	5.6	19		
6.3	19	6.3	19		
7.0	20	7.0	20		
7.6	20	7.6	20		
8.3	19	8.3	20		

Table 19.--Soil moisture, in percent of total volume, at site 16

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
17AUG1978		24AUG1978		27SEP1978	
0.3	4	0.3	4	0.3	4
1.0	6	1.0	6	1.0	5
1.6	7	1.6	7	1.6	7
2.3	11	2.3	10	2.3	10
3.0	16	3.0	15	3.0	14
3.6	24	3.6	23	3.6	21
4.3	25	4.3	25	4.3	22
5.0	26	5.0	26	5.0	23
5.6	25	5.6	25	5.6	23
5.9	27	5.9	27	6.0	24
04OCT1978		25OCT1978		08NOV1978	
0.3	4	0.3	4	0.3	5
1.0	5	1.0	5	1.0	5
1.6	7	1.6	7	1.6	7
2.3	10	2.3	10	2.3	9
3.0	14	3.0	14	3.0	13
3.6	21	3.6	21	3.6	20
4.3	22	4.3	22	4.3	21
5.0	23	5.0	23	5.0	22
5.6	22	5.6	22	5.6	21
6.0	23	6.0	23	6.0	23
21NOV1978		06DEC1978		20DEC1978	
0.3	15	0.3	13	0.3	14
1.0	16	1.0	17	1.0	17
1.6	13	1.6	19	1.6	19
2.3	10	2.3	20	2.3	21
3.0	23	3.0	21	3.0	18
3.6	21	3.6	21	3.6	21
4.3	21	4.3	21	4.3	21
5.0	22	5.0	21	5.0	22
5.6	21	5.6	21	5.6	21
5.9	22	6.0	22	6.0	22

Table 19.--Soil moisture, in percent of total volume, at site 16 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
16JAN1979		31JAN1979		22FEB1979	
0.3	19	0.3	17	0.3	19
1.0	16	1.0	18	1.0	18
1.6	18	1.6	20	1.6	20
2.3	20	2.3	23	2.3	23
3.0	19	3.0	24	3.0	25
3.6	21	3.6	27	3.6	27
4.3	21	4.3	25	4.3	27
5.0	21	5.0	21		
5.6	21	5.6	21		
6.0	22	6.0	22		
07MAR1979		21MAR1979		28MAR1979	
0.3	20	0.3	23	0.3	21
1.0	24	1.0	28	1.0	25
1.4	27			1.4	27
12APR1979		19APR1979		02MAY1979	
0.3	23	0.3	21	0.3	17
1.0	27	1.0	24	1.0	20
		1.6	28	1.6	23
				2.3	27
09MAY1979		16MAY1979		21JUN1979	
0.3	14	0.3	12	0.3	13
1.0	19	1.0	18	1.0	19
1.6	21	1.6	21	1.6	22
2.3	25	2.3	24	2.3	26
		3.0	27	2.9	28

Table 19.--Soil moisture, in percent of total volume, at site 16 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
03JUL1979		19JUL1979		31JUL1979	
0.3	9	0.3	8	0.3	6
1.0	16	1.0	10	1.0	8
1.6	20	1.6	14	1.6	11
2.3	24	2.3	19	2.3	17
3.0	27	3.0	23	3.0	21
		3.6	28	3.6	27
		4.3	28	4.3	27
				5.0	27
15AUG1979		29AUG1979		11SEP1979	
0.3	5	0.3	9	0.3	11
1.0	7	1.0	7	1.0	16
1.6	8	1.6	8	1.6	18
2.3	12	2.3	11	2.3	21
3.0	18	3.0	15	3.0	23
3.6	25	3.6	23	3.6	27
4.3	26	4.3	24	4.3	27
5.0	25	5.0	24		
5.6	26	5.6	24		
26SEP1979		10OCT1979		23OCT1979	
0.3	12	0.3	7	0.3	9
1.0	14	1.0	12	1.0	9
1.6	17	1.6	15	1.6	15
2.3	20	2.3	19	2.3	17
3.0	22	3.0	21	3.0	21
3.6	27	3.6	25	3.6	25
4.3	27	4.3	25	4.3	25
5.0	25	5.0	25	5.0	25
5.6	26	5.6	25	5.6	25

Table 19.--Soil moisture, in percent of total volume, at site 16 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
09JAN1980		24JAN1980		21FEB1980	
0.3	15	0.3	17	0.3	16
1.0	17	1.0	19	1.0	19
1.6	19	1.6	21	1.6	21
2.3	21	2.3	23	2.3	24
3.0	23	3.0	24	3.0	27
3.6	26	3.6	27		
4.3	26	4.3	26		
5.0	25	5.0	25		
5.6	25	5.6	25		
6.0	26				
21MAR1980		03APR1980		16APR1980	
0.3	11	0.3	17	0.3	15
1.0	17	1.0	21	1.0	18
1.6	19	1.6	24	1.6	21
2.3	22			2.3	24
3.0	25			3.0	27
3.6	29				
09MAY1980		11JUN1980		10JUL1980	
0.3	12	0.3	16	0.3	5
1.0	17	1.0	21	1.0	11
1.6	19	1.6	24	1.6	18
2.3	23	2.3	27	2.3	22
3.0	25			3.0	25
3.6	31			3.6	29

Table 19.--Soil moisture, in percent of total volume, at site 16 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
14AUG1980		23SEP1980		03OCT1980	
0.3	4	0.3	3	0.3	18
1.0	5	1.0	5	1.0	21
1.6	7	1.6	6	1.6	24
2.3	11	2.3	9	2.3	26
3.0	16	3.0	13		
3.6	24	3.6	20		
4.3	26	4.3	20		
5.0	26	5.0	21		
5.6	27	5.6	21		
25NOV1980		06JAN1981		20FEB1981	
0.3	18	0.3	16	0.3	17
1.0	20	1.0	20	1.0	20
1.6	23	1.6	23	1.6	22
2.3	26	2.3	26	2.3	26
2.6	26	2.6	27	3.0	28
12MAR1981		02APR1981		14APR1981	
0.3	21	0.3	16	0.3	14
1.0	25	1.0	20	1.0	18
1.3	27	1.6	24	1.6	21
		2.3	27	2.3	25
				3.0	28
23APR1981		12MAY1981		09JUN1981	
0.3	19	0.3	20	0.3	22
1.0	20	1.0	24	1.0	26
1.6	22				
2.3	24				
3.0	28				
3.3	29				

Table 19.--Soil moisture, in percent of total volume, at site 16 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
12AUG1981		23SEP1981		30OCT1981	
0.3	11	0.3	13	0.3	23
1.0	14	1.0	17	1.0	28
1.6	16	1.6	20		
2.3	20	2.3	22		
3.0	23	3.0	26		
3.6	28	3.6	29		
4.3	28				
4.6	28				
11DEC1981					
0.3	21				
1.0	26				
1.5	28				

Table 20.--Soil moisture, in percent of total volume, at site 19

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
23AUG1978		27SEP1978		04OCT1978	
0.3	2	0.3	6	0.3	4
1.0	4	1.0	7	1.0	7
1.6	11	1.6	13	1.6	13
25OCT1978		08NOV1978		21NOV1978	
0.3	4	0.3	7	0.3	11
1.0	6	1.0	6	1.0	15
1.6	13	1.6	13	1.6	21
06DEC1978		20DEC1978		16JAN1979	
0.3	10	0.3	9	0.3	19
1.0	13	1.0	13	1.0	20
1.6	20	1.6	22	1.6	21
				1.8	27
31JAN1979		22FEB1979		07MAR1979	
0.3	13	0.3	15	0.3	12
1.0	15	1.0	16	1.0	15
1.6	21	1.6	24	1.6	21
21MAR1979		28MAR1979		12APR1979	
0.3	13	0.3	10	0.3	12
1.0	16	1.0	14	1.0	16
1.6	21	1.6	21	1.6	22
19APR1979		02MAY1979		09MAY1979	
0.3	13	0.3	8	0.3	7
1.0	15	1.0	12	1.0	11
1.6	21	1.6	20	1.6	19

Table 20.--Soil moisture, in percent of total volume, at site 19 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
16MAY1979		21JUN1979		03JUL1979	
0.3	8	0.3	5	0.3	3
1.0	11	1.0	10	1.0	7
1.6	19	1.6	19	1.6	17
19JUL1979		31JUL1979		15AUG1979	
0.3	8	0.3	3	0.3	3
1.0	6	1.0	5	1.0	5
1.6	14	1.6	13	1.6	13
29AUG1979		11SEP1979		26SEP1979	
0.3	9	0.3	5	0.3	6
1.0	8	1.0	9	1.0	8
1.6	13	1.6	16	1.6	15
10OCT1979		23OCT1979		14NOV1979	
0.3	3	0.3	8	0.3	7
1.0	6	1.0	6	1.0	9
1.6	15	1.6	13	1.6	16
07DEC1979		28DEC1979		09JAN1980	
0.3	6	0.3	10	0.3	9
1.0	9	1.0	11	1.0	11
1.6	16	1.6	16	1.6	17
24JAN1980		21FEB1980		21MAR1980	
0.3	12	0.3	11	0.3	7
1.0	15	1.0	14	1.0	11
1.6	21	1.6	21	1.6	19

Table 20.--Soil moisture, in percent of total volume, at site 19 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
03APR1980		16APR1980		09MAY1980	
0.3	13	0.3	8	0.3	8
1.0	15	1.0	12	1.0	13
1.6	21	1.6	20	1.6	20
11JUN1980		10JUL1980		14AUG1980	
0.3	7	0.3	2	0.3	2
1.0	11	1.0	4	1.0	4
1.6	20	1.6	13	1.6	11
23SEP1980		03OCT1980		25NOV1980	
0.3	2	0.3	10	0.3	12
1.0	4	1.0	14	1.0	15
1.6	11	1.6	21	1.6	21
06JAN1981		20FEB1981		12MAR1981	
0.3	8	0.3	10	0.3	11
1.0	12	1.0	13	1.0	14
1.6	20	1.6	20	1.6	22
02APR1981		14APR1981		23APR1981	
0.3	8	0.3	6	0.3	12
1.0	12	1.0	10	1.0	12
1.6	20	1.6	19	1.6	19
12MAY1981		09JUN1981		12AUG1981	
0.3	11	0.3	11	0.3	4
1.0	15	1.0	14	1.0	6
1.6	21	1.6	22	1.6	14
23SEP1981		30OCT1981		11DEC1981	
0.3	4	0.3	11	0.3	11
1.0	6	1.0	11	1.0	14
1.6	14	1.6	22	1.6	22

Table 21.--Soil moisture, in percent of total volume, at site 22

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
23AUG1978		27SEP1978		04OCT1978	
0.3	4	0.3	9	0.3	7
1.0	10	1.0	12	1.0	12
1.6	15	1.6	15	1.6	15
2.3	13	2.3	13	2.3	13
3.0	15	3.0	15	3.0	15
3.6	23	3.6	22	3.6	22
4.3	24	4.3	23	4.3	23
5.0	24	5.0	23	5.0	23
5.6	26	5.6	25	5.6	25
6.3	27	6.3	27	6.3	26
7.0	27	7.0	26	7.0	26
7.6	26	7.6	25	7.6	25
8.1	26	8.0	25	8.0	25
25OCT1978		08NOV1978		21NOV1978	
0.3	6	0.3	8	0.3	21
1.0	12	1.0	13	1.0	26
1.6	15	1.6	16	1.6	18
2.3	13	2.3	13	2.3	13
3.0	15	3.0	15	3.0	15
3.6	22	3.6	22	3.6	22
4.3	23	4.3	23	4.3	23
5.0	23	5.0	23	5.0	22
5.6	25	5.6	24	5.6	24
6.3	26	6.3	26	6.3	25
7.0	26	7.0	26	7.0	25
7.6	25	7.6	25	7.6	24
8.0	25	8.0	25	8.0	24

Table 21.--Soil moisture, in percent of total volume, at site 22 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
06DEC1978		20DEC1978		16JAN1979	
0.3	19	0.3	19	0.3	23
1.0	26	1.0	26	1.0	25
1.6	19	1.6	20	1.6	21
2.3	13	2.3	13	2.3	13
3.0	15	3.0	15	3.0	15
3.6	22	3.6	22	3.6	22
4.3	23	4.3	23	4.3	23
5.0	22	5.0	23	5.0	22
5.6	24	5.6	25	5.6	24
6.3	25	6.3	26	6.3	25
7.0	25	7.0	26	7.0	25
7.6	25	7.6	25	7.6	25
8.0	24	8.0	25	8.0	24
31JAN1979		22FEB1979		07MAR1979	
0.3	22	0.3	26	0.3	23
1.0	25	1.0	27	1.0	25
1.6	21	1.6	22	1.6	22
2.3	13	2.3	14	2.3	15
3.0	15	3.0	15	3.0	15
3.6	21	3.6	22	3.6	21
4.3	22	4.3	23	4.3	22
5.0	22	5.0	22	5.0	21
5.6	24	5.6	24	5.6	23
6.3	25	6.3	25	6.3	24
7.0	25	7.0	25	7.0	25
7.6	24	7.6	25	7.6	24
8.0	24	8.0	24	8.0	24

Table 21.--Soil moisture, in percent of total volume, at site 22 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
21MAR1979		28MAR1979		12APR1979	
0.3	24	0.3	20	0.3	23
1.0	27	1.0	26	1.0	27
1.6	23	1.6	23	1.6	23
2.3	16	2.3	17	2.3	17
3.0	15	3.0	15	3.0	16
3.6	22	3.6	22	3.6	22
4.3	23	4.3	23	4.3	23
5.0	23	5.0	23	5.0	23
5.6	25	5.6	24	5.6	25
6.3	26	6.3	26	6.3	27
7.0	26	7.0	26	7.0	27
7.6	25	7.4	26		
8.0	25				
19APR1979		02MAY1979		09MAY1979	
0.3	23	0.3	17	0.3	16
1.0	27	1.0	25	1.0	25
1.6	23	1.6	23	1.6	23
2.3	17	2.3	18	2.3	18
3.0	15	3.0	16	3.0	16
3.6	22	3.6	23	3.6	23
4.3	23	4.3	24	4.3	24
5.0	23	5.0	23	5.0	23
5.6	24	5.6	25	5.6	25
6.3	27	6.3	27	6.3	27
6.5	26				

Table 21.--Soil moisture, in percent of total volume, at site 22 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
16MAY1979		31MAY1979		21JUN1979	
0.3	14	0.3	17	0.3	10
1.0	25	1.0	23	1.0	23
1.6	23	1.6	25	1.6	23
2.3	21	2.3	19	2.3	18
3.0	16	3.0	15	3.0	17
3.6	23	3.6	21	3.6	23
4.3	24	4.3	23	4.3	25
5.0	23	5.0	23	5.0	24
5.6	25	5.6	24	5.6	26
6.3	27	6.3	27		
03JUL1979		19JUL1979		31JUL1979	
0.3	6	0.3	9	0.3	5
1.0	16	1.0	14	1.0	12
1.6	21	1.6	18	1.6	17
2.3	18	2.3	17	2.3	16
3.0	17	3.0	17	3.0	17
3.6	23	3.6	23	3.6	23
4.3	25	4.3	25	4.3	25
5.0	24	5.0	24	5.0	24
5.6	26	5.6	26	5.6	26
		6.3	27	6.3	27
15AUG1979		28AUG1979		11SEP1979	
0.3	5	0.3	7	0.3	6
1.0	11	1.0	13	1.0	14
1.6	17	1.6	18	1.6	18
2.3	15	2.3	15	2.3	15
3.0	16	3.0	15	3.0	15
3.6	23	3.6	23	3.6	22
4.3	23	4.3	23	4.3	23
5.0	23	5.0	23	5.0	23
5.6	25	5.6	25	5.6	24
6.2	27	6.3	27	6.3	27
7.0	27	7.0	27	7.0	27
7.6	26	7.6	26	7.6	25

Table 21.--Soil moisture, in percent of total volume, at site 22 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
26SEP1979		10OCT1979		23OCT1979	
0.3	7	0.3	5	0.3	7
1.0	12	1.0	12	1.0	13
1.6	17	1.6	17	1.6	17
2.3	15	2.3	14	2.3	14
3.0	15	3.0	15	3.0	15
3.6	22	3.6	21	3.6	22
4.3	22	4.3	21	4.3	21
5.0	22	5.0	22	5.0	21
5.6	23	5.6	23	5.6	23
6.3	25	6.3	25	6.3	25
7.0	26	7.0	25	7.0	25
7.6	25	7.6	25	7.6	25
14NOV1979		07DEC1979		09JAN1980	
0.3	13	0.3	12	0.3	19
1.0	19	1.0	19	1.0	24
1.6	18	1.6	18	1.6	19
2.3	14	2.3	14	2.3	14
3.0	15	3.0	15	3.0	15
3.6	21	3.6	21	3.6	22
4.3	21	4.3	21	4.3	22
5.0	21	5.0	21	5.0	21
5.6	23	5.6	23	5.6	23
6.3	25	6.3	25	6.3	25
7.0	25	7.0	25	7.0	25
7.6	24	7.6	25	7.6	25
8.0	24	8.0	24	8.0	24

Table 21.--Soil moisture, in percent of total volume, at site 22 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
24JAN1980		21FEB1980		21MAR1980	
0.3	23	0.3	19	0.3	15
1.0	26	1.0	24	1.0	23
1.6	19	1.6	20	1.6	21
2.3	14	2.3	14	2.3	15
3.0	15	3.0	15	3.0	15
3.6	22	3.6	21	3.6	22
4.3	22	4.3	21	4.3	22
5.0	21	5.0	21	5.0	22
5.6	23	5.6	22	5.6	24
6.3	25	6.3	25	6.3	25
7.0	26	7.0	24	7.0	25
7.6	24	7.6	24	7.6	25
8.0	25	8.0	23	8.0	25
03APR1980		16APR1980		09MAY1980	
0.3	19	0.3	14	0.3	17
1.0	24	1.0	23	1.0	24
1.6	22	1.6	21	1.6	21
2.3	15	2.3	15	2.3	15
3.0	15	3.0	16	3.0	16
3.6	23	3.6	22	3.6	22
4.3	22	4.3	22	4.3	22
5.0	21	5.0	21	5.0	21
5.6	24	5.6	23	5.6	24
6.3	26	6.3	26	6.3	26
7.0	27	7.0	26	7.0	26
7.6	26	7.6	25	7.6	25
8.0	25	8.0	25	8.0	25

Table 21.--Soil moisture, in percent of total volume, at site 22 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
11JUN1980		10JUL1980		14AUG1980	
0.3	13	0.3	5	0.3	4
1.0	24	1.0	12	1.0	10
1.6	21	1.6	18	1.6	15
2.3	15	2.3	15	2.3	13
3.0	16	3.0	16	3.0	15
3.6	23	3.6	23	3.6	21
4.3	23	4.3	22	4.3	22
5.0	22	5.0	22	5.0	21
5.6	24	5.6	24	5.6	23
6.3	26	6.3	26	6.3	26
7.0	26	7.0	27	7.0	26
7.6	26	7.6	26	7.6	25
8.3	25	8.0	26	8.0	24
23SEP1980		03OCT1980		25NOV1980	
0.3	4	0.3	21	0.3	22
1.0	10	1.0	25	1.0	26
1.6	15	1.6	19	1.6	20
2.3	13	2.3	13	2.3	13
3.0	14	3.0	14	3.0	14
3.6	20	3.6	20	3.6	20
4.3	21	4.3	21	4.3	19
5.0	20	5.0	19	5.0	19
5.6	22	5.6	22	5.6	21
6.3	25	6.3	24	6.3	24
7.0	26	7.0	25	7.0	24
7.6	24	7.6	24	7.6	24
8.0	24	8.0	24	8.0	24

Table 21.--Soil moisture, in percent of total volume, at site 22 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
06JAN1981		20FEB1981		12MAR1981	
0.3	17	0.3	18	0.3	22
1.0	24	1.0	25	1.0	26
1.6	21	1.6	23	1.6	22
2.3	14	2.3	14	2.3	14
3.0	14	3.0	15	3.0	15
3.6	21	3.6	22	3.6	21
4.3	20	4.3	21	4.3	20
5.0	19	5.0	20	5.0	19
5.6	21	5.6	21	5.6	21
6.3	24	6.3	25	6.3	24
7.0	24	7.0	26	7.0	25
7.6	24	7.6	25	7.6	24
8.1	24	8.0	26		
02APR1981		14APR1981		23APR1981	
0.3	15	0.3	12	0.3	14
1.0	24	1.0	22	1.0	21
1.6	22	1.6	22	1.6	22
2.3	14	2.3	15	2.3	14
3.0	14	3.0	15	3.0	15
3.6	21	3.6	21	3.6	21
4.3	20	4.3	20	4.3	20
5.0	19	5.0	19	5.0	19
5.6	22	5.6	21	5.6	22
6.3	26	6.3	25	6.3	26
7.0	26	7.0	25	7.0	26
7.6	24	7.6	25	7.3	25

Table 21.--Soil moisture, in percent of total volume, at site 22 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)	Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
12MAY1981		09JUN1981		12AUG1981	
0.3	21	0.3	22	0.3	9
1.0	24	1.0	26	1.0	16
1.6	22	1.6	21	1.6	18
2.3	15	2.3	15	2.3	14
3.0	14	3.0	15	3.0	15
3.6	20	3.6	21	3.6	21
4.3	20	4.3	21	4.3	21
5.0	19	5.0	19	5.0	20
5.6	22	5.6	23	5.6	23
6.3	26	6.3	26	6.3	26
7.0	26	6.6	26	7.0	26
7.5	26			7.6	25
				8.0	25
08SEP1981		23SEP1981		30OCT1981	
0.3	13	0.3	8	0.3	22
1.0	19	1.0	16	1.0	26
1.6	19	1.6	19	1.6	21
2.3	14	2.3	14	2.3	14
3.0	15	3.0	15	3.0	15
3.6	22	3.6	21	3.6	21
4.3	21	4.3	22	4.3	20
5.0	20	5.0	20	5.0	20
5.6	23	5.6	24	5.6	22
6.3	26	6.3	26	6.3	25
7.0	26	7.0	26	7.0	25
7.6	25	7.6	26	7.6	24
8.0	25	8.0	25	8.3	24

Table 21.--Soil moisture, in percent of total volume, at site 22 --Continued

Sam- pling depth (ft)	Soil mois- ture (percent of total volume)
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11DEC1981

0.3	21
1.0	26
1.6	22
2.3	19
3.0	16
3.6	21
4.3	20
5.0	20
5.6	23
6.3	26
7.0	26

Table 22.--Average daily stream discharge, in cubic feet per second, at site 1

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	20	0.02	0.10	0.25	0.39	0.52	0.31	0.30	0.00	0.00	0.00
2	.00	3	.02	.10	.24	.53	.42	.22	3.0	.00	.00	.00
3	.00	16	.02	.10	.21	.47	7.2	7.0	.86	.00	.00	.00
4	.00	.08	.02	.10	.25	.20	55	1.0	.88	.00	.00	.00
5	.00	.05	.02	.10	.23	.13	5.9	.55	.27	.00	.00	.00
6	.00	.03	.02	.10	.23	.13	3.2	.55	3.5	.00	.00	.00
7	.00	.02	.02	.10	.23	46	1.4	.52	3.0	.00	.00	.00
8	.00	.21	.03	.10	.23	41	.76	.46	2.4	.00	.00	.00
9	.00	1	.02	.10	.27	4.7	.72	.25	1.3	.00	.00	.00
10	.00	.20	.02	.10	.31	1.5	75	.15	.30	.00	.00	.00
11	.00	.07	.02	.10	.34	.77	12	.09	.16	.00	.00	.00
12	.00	.03	.02	.20	70	.49	3.6	.06	.08	.00	.00	.00
13	.00	.02	.02	.21	33	.40	1.6	.05	.03	.00	.00	.00
14	.00	.01	.02	.20	2.4	.41	.84	.05	.02	.00	.00	.00
15	.00	.00	.02	.20	.96	.30	.57	.02	.01	.00	.00	.00
16	.00	.00	.02	.20	.93	.20	.47	.02	.00	.00	.00	.00
17	.00	.00	.02	.20	.85	.15	.41	.07	.00	.00	.00	.00
18	.00	.00	.02	.20	.80	.14	.33	.03	.00	.00	.00	.00
19	.00	.01	.02	.20	.74	.13	.21	.03	.00	.00	.00	.00
20	.00	.01	.02	.20	.99	.19	.17	.02	.00	.00	.00	.00
21	.00	.01	.02	.20	1.3	40	.15	.03	.00	.00	.00	.00
22	.00	.01	.02	.20	5.1	2.5	.15	.03	.00	.00	.00	.00
23	.00	.01	.02	.60	6.8	208	.15	.03	.00	.00	.00	.00
24	.00	.01	.02	1.0	1.5	143	.13	.03	.00	.34	.00	.00
25	.00	.01	.02	1.2	.59	10	.13	.01	.00	.02	.00	.00
26	.00	.01	.02	.80	.30	4.5	.10	.03	.00	.00	.00	.00
27	.00	.01	.02	.60	.16	2.4	.09	.03	.00	.00	.00	.00
28	.00	.01	.05	.40	.31	1.6	.08	.03	.00	.00	.00	.00
29	.00	.01	.10	.30	---	1.1	.08	13	.00	.00	.00	.00
30	.00	.03	.10	.30	---	.80	.23	15	.00	.00	.00	.00
31	.00	---	.10	.25	---	.68	---	1.1	.00	.00	.00	.00
TOTAL	.00	25.42	.90	8.76	129.52	512.81	171.61	41.07	16.11	.36	.00	.00
MEAN	.00	.85	.029	.28	4.63	16.5	5.72	1.32	.54	.012	.000	.000
MAX	.00	.20	.10	1.2	70	208	75	15	3.5	.34	.00	.00
MIN	.00	.00	.02	.10	.16	.13	.08	.01	.00	.00	.00	.00

Water year October 1977 to September 1978

Table 22.--Average daily stream discharge, in cubic feet per second, at site 1 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.11	3.8	5.2	0.17	1.6	0.00	0.00	4.3
2	.00	.00	.00	.00	.07	2.1	3.0	.17	18	.00	.00	.10
3	.00	.00	.00	.00	.09	20	1.5	.29	4.9	.00	.00	.01
4	.00	.00	.00	.00	.11	3.3	2.1	.49	1.8	.00	.00	.00
5	.00	.00	.00	.00	.09	1.2	1.5	.44	80	.00	.00	.00
6	.00	.00	.00	.00	.12	.66	.97	.33	35	.00	.00	.00
7	.00	.00	.00	.00	.23	.43	.67	.28	4.7	.00	.00	.00
8	.00	.00	.00	.00	.25	.31	.54	.19	1.6	.00	.00	.00
9	.00	.00	.00	.00	.18	.24	.46	.16	1.2	.00	.00	.00
10	.00	.00	.00	.00	.17	.17	2.5	.15	.81	.00	.00	.00
11	.00	.00	.00	.00	8.7	.14	52	.57	.35	.00	.00	.00
12	.00	.00	.00	.00	6.8	.13	5.2	.79	.23	.00	.00	.00
13	.00	.00	.00	.00	1.7	.11	2.2	.33	.17	.00	.00	.00
14	.00	.00	.00	.00	.94	.10	1.3	.17	.17	.00	.00	.00
15	.00	.00	.00	.14	.70	.09	.85	.13	.13	.00	.00	.00
16	.00	.95	.00	.25	.21	.09	.62	.10	.08	.00	.00	.00
17	.00	.02	.00	3.3	.12	.10	.43	.09	.07	.78	.00	.00
18	.00	.00	.00	4.3	.08	.39	6.1	.05	.05	.42	.00	.00
19	.00	.00	.00	15	.05	436	3.6	.01	.02	.04	.00	.00
20	.00	.00	.00	14	.05	74	1.9	.18	.00	.00	.00	.00
21	.00	.00	.00	1.8	.06	12	1.2	40	.00	.00	.00	.00
22	.00	.00	.00	.40	.20	72	.86	213	.00	.00	.00	.00
23	.00	.00	.00	.19	.49	11	.75	22	.00	.00	.00	.00
24	.00	.00	.00	.12	11	4.5	.69	3.8	.00	.00	.00	.00
25	.00	.05	.00	.18	7.2	2.8	.45	1.6	.00	.00	.00	.00
26	.00	.00	.00	4.9	6.7	2.2	.32	.84	.00	.00	.00	.00
27	.00	.80	.00	2.8	5.7	1.6	.22	.68	.00	.00	.00	.00
28	.00	.12	.00	.51	14	1.1	.17	124	.00	.00	.00	.00
29	.00	.05	.00	.19	---	1.3	.17	59	.00	.00	.00	.00
30	.00	.01	.00	.14	---	3.6	.17	7.0	.00	.00	.00	.00
31	.00	---	.00	.12	---	2.2	---	3.9	.00	.00	.36	---
TOTAL	.00	9.00	.00	48.34	66.12	657.66	97.64	480.91	150.88	1.24	36	4.41
MEAN	.000	.30	.000	1.56	2.36	21.2	3.25	15.5	5.03	.040	1.16	.15
MAX	.00	7.0	.00	15	14	436	52	213	80	.78	36	4.3
MIN	.00	.00	.00	.00	.05	.09	.17	.01	.00	.00	.00	.00

Water year October 1978 to September 1979

Table 22.---Average daily stream discharge, in cubic feet per second, at site 1 ---Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.02	0.02	0.01	9.3	2.0	0.00	0.00	0.00
2	.00	.00	.00	.00	.02	.01	.20	27	.93	.00	.00	.00
3	.00	.00	.00	.00	.02	.01	7.2	2.5	.53	.00	.00	.00
4	.00	.00	.00	.00	.02	.01	.60	.56	.33	.00	.00	.00
5	.00	.00	.00	.00	.01	.01	.18	.21	.24	.00	.00	.00
6	.00	.00	.00	.00	.02	.01	.10	.16	.17	.00	.00	.00
7	.00	.00	.00	.00	.02	.01	.05	.13	.12	.00	.00	.00
8	.00	.00	.00	.00	20	.01	.04	.09	.09	.00	.00	.00
9	.00	.00	.00	.00	5.6	.01	.04	.08	.09	.00	.00	.00
10	.00	.00	.00	.00	1.5	.01	.03	.08	.07	.00	.00	.00
11	.00	.00	.00	.00	1.5	.01	.02	.07	.06	.00	.00	.00
12	.00	.00	.00	.00	1.6	.01	.02	.06	.04	.00	.00	.00
13	.00	.00	.00	.00	.37	.01	.02	.06	.03	.00	.00	.00
14	.00	.00	.00	.00	.27	.01	.02	.04	.02	.00	.00	.00
15	.00	.00	.00	.00	.20	.01	.03	8.6	.01	.00	.00	.00
16	.00	.00	.00	.00	.14	.01	.05	5.0	.00	.00	.00	.00
17	.00	.00	.00	.00	.12	.01	.05	1.3	.00	.00	.00	.00
18	.00	.00	.00	.00	.09	.00	.04	66	.00	.00	.00	.00
19	.00	.00	.00	.00	.09	.00	.03	25	.00	.00	.00	.00
20	.00	.00	.00	.02	.10	.00	.02	2.5	18	.00	.00	.00
21	.00	.00	.00	5.6	.10	.00	.02	2.4	1.2	.00	.00	.00
22	.00	.00	.00	1.2	.09	.00	.01	3.0	.37	.00	.00	.00
23	.00	.00	.00	.22	.08	.00	.01	1.5	.15	.00	.00	.00
24	.00	.00	.00	.11	.07	.00	.00	.94	.07	.00	.00	.00
25	.00	.00	.00	.09	.05	.00	.54	.65	.05	.00	.00	.00
26	.00	.00	.00	.07	.03	.00	2.2	.50	.04	.00	.00	.00
27	.00	.00	.00	.04	.02	.00	1.3	.33	.03	.00	.00	.33
28	.00	.00	.00	.04	.02	.00	.60	.20	.00	.00	.00	137
29	.00	.00	.00	.04	.02	.00	.42	83	.00	.00	.00	11
30	.08	.00	.00	.03	---	.00	1.1	293	.00	.00	.00	.79
31	.00	.00	.00	.03	---	.00	---	10	---	.00	.00	---
TOTAL	.08	.00	.00	7.49	32.19	.18	14.95	544.26	24.64	.00	.00	181.79
MEAN	.003	.000	.000	.24	1.11	.006	.50	17.6	.82	.000	.000	6.06
MAX	.08	.00	.00	5.6	20	.02	7.2	293	.18	.00	.00	137
MIN	.00	.00	.00	.00	.01	.00	.00	.04	.00	.00	.00	.00

Water year October 1979 to September 1980

Table 22.--Average daily stream discharge, in cubic feet per second, at site 1 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.24	0.10	0.10	0.10	0.18	19	0.17	0.10	0.77	0.00	0.00	0.02
2	.10	.08	.06	.10	.17	2.8	.15	.05	12	.00	.00	.00
3	.05	.06	.06	.09	.17	63	.17	.03	18	.02	.00	.00
4	.03	.04	.06	.07	.16	60	.28	.01	5.5	2.3	.00	.00
5	.02	.02	.06	.06	.14	4.6	.45	.00	39	.45	.00	.00
6	.02	.02	.06	.06	.12	1.9	.17	.00	21	.09	.00	.00
7	.02	.01	.06	.06	.12	1.6	.15	.00	5.1	.39	.00	.00
8	.01	.00	.06	.06	.13	2.4	.10	.01	2.0	.20	.00	.00
9	.00	.00	.14	.06	.31	1.9	.10	.70	1.1	.07	.00	.00
10	.00	.00	3.2	.06	2.3	1.8	.10	19	.67	.07	.00	.00
11	.00	.00	1.3	.05	.20	1.4	.10	3.1	.44	.02	.00	.00
12	.00	.00	.88	.05	.12	1.1	.10	1.2	.23	.00	.00	.00
13	.00	.00	.65	.05	.10	.86	.10	.68	.21	.00	.00	.00
14	.00	.00	.51	.05	.10	.79	.10	.49	.25	.00	.00	.00
15	.00	.00	.39	.05	.12	.81	.10	.33	3.9	.00	.00	.00
16	.00	.00	.39	.05	.14	.67	.10	.28	21	.00	.00	.00
17	.06	.36	.29	.05	.15	.48	.10	.24	1.8	.00	.13	.00
18	.05	.97	.25	.05	.15	.34	.13	.20	.69	.00	.03	.00
19	.03	.31	.32	.05	.15	.32	.60	.12	.29	.00	.02	.00
20	.02	.20	.33	.07	.13	.29	.72	.10	.14	.00	.00	.00
21	.01	.15	.26	.28	.12	.27	.51	.09	.09	.00	.00	.00
22	.00	.15	.24	.32	.09	.25	.90	.07	.03	.00	.00	.00
23	.00	.13	.21	.21	.07	.22	3.1	3.7	.00	.00	.00	.00
24	.00	.12	.21	.18	.06	.20	.81	24	.00	.00	.00	.00
25	.00	.14	.17	.17	.05	.18	.41	2.1	.00	.00	.00	.00
26	.00	.14	.17	.17	.04	.16	.17	1.1	.00	.00	.10	.00
27	.25	.12	.17	.15	.04	.13	.10	.59	.00	.00	40	.06
28	1.1	.11	.15	.12	140	.15	.11	.32	.00	.59	1.9	.07
29	.36	.10	.15	.12	---	1.2	.22	.42	.00	.36	.57	.04
30	.19	.10	.12	.33	---	.56	.29	2.8	.00	.08	.15	.02
31	.14	---	.12	.19	---	.32	---	1.9	---	.01	.05	---
TOTAL	27.45	3.43	190.94	3.48	145.63	169.70	10.61	133.03	134.21	4.65	42.95	.21
MEAN	.89	.11	6.16	.11	5.20	5.47	.35	4.29	4.47	.15	1.39	.007
MAX	.25	.97	166	.33	140	.63	3.1	.70	.39	2.3	.40	.07
MIN	.00	.00	.06	.05	.04	.13	.10	.00	.00	.00	.00	.00

Water year October 1980 to September 1981

Table 22.--Average daily stream discharge, in cubic feet per second, at site 1 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	69	13	---	---	---	---	---	---	---	---	---
2	.00	12	5.1	---	---	---	---	---	---	---	---	---
3	.00	5.6	3.8	---	---	---	---	---	---	---	---	---
4	.00	3.6	2.5	---	---	---	---	---	---	---	---	---
5	.00	2.3	2.0	---	---	---	---	---	---	---	---	---
6	.00	1.4	1.4	---	---	---	---	---	---	---	---	---
7	.00	1.1	1.1	---	---	---	---	---	---	---	---	---
8	.00	119	.90	---	---	---	---	---	---	---	---	---
9	.00	62	.72	---	---	---	---	---	---	---	---	---
10	.00	12	.68	---	---	---	---	---	---	---	---	---
11	.00	5.9	.66	---	---	---	---	---	---	---	---	---
12	2.3	3.7	.64	---	---	---	---	---	---	---	---	---
13	1240	2.4	.64	---	---	---	---	---	---	---	---	---
14	78	1.7	.90	---	---	---	---	---	---	---	---	---
15	123	1.4	.85	---	---	---	---	---	---	---	---	---
16	496	1.3	.81	---	---	---	---	---	---	---	---	---
17	140	1.2	.77	---	---	---	---	---	---	---	---	---
18	26	1.4	.73	---	---	---	---	---	---	---	---	---
19	6.4	1.2	.69	---	---	---	---	---	---	---	---	---
20	3.2	.95	.65	---	---	---	---	---	---	---	---	---
21	2.2	.85	.62	---	---	---	---	---	---	---	---	---
22	59	.72	.58	---	---	---	---	---	---	---	---	---
23	11	.64	.55	---	---	---	---	---	---	---	---	---
24	3.8	.57	.52	---	---	---	---	---	---	---	---	---
25	2.2	.47	.50	---	---	---	---	---	---	---	---	---
26	2.5	.44	.47	---	---	---	---	---	---	---	---	---
27	1.3	.38	.45	---	---	---	---	---	---	---	---	---
28	.93	.31	.42	---	---	---	---	---	---	---	---	---
29	.70	.38	.40	---	---	---	---	---	---	---	---	---
30	.67	138	.38	---	---	---	---	---	---	---	---	---
31	168	---	---	---	---	---	---	---	---	---	---	---
TOTAL	2367.20	451.91	---	---	---	---	---	---	---	---	---	---
MEAN	76.4	15.1	---	---	---	---	---	---	---	---	---	---
MAX	1240	138	---	---	---	---	---	---	---	---	---	---
MIN	.00	.31	---	---	---	---	---	---	---	---	---	---

Water year October 1981 to September 1982

Table 23.--Instantaneous stream discharge, periodic and miscellaneous measurement sites

[cfs, cubic feet per second; E, estimated]

Latitude	Longitude	Local number	Date	Time	Stream discharge (cfs)
34°26'40"	96°16'06"	01S-10E-29 AAD 1	May 05, 1977	1040	.08
			Jan 28, 1982	1125	.07
34°26'51"	96°16'03"	01S-10E-21 CCC 1	Jan 28, 1982	1100	.07
34°26'52"	96°15'22"	01S-10E-21 DCD 3	May 25, 1977	1540	E.02
			Jun 14, 1978	1345	E.01
			Nov 16	1315	.30
			Nov 26	1207	4.0
			Feb 28, 1979	0856	5.9
			Mar 22	0844	43
			Apr 18	1110	5.9
			Jan 21, 1980	1606	1.3
			Jan 22	1200	.22
			Apr 05	1852	.42
			May 15	1500	4.3
			May 19	0247	10
			Jun 24	0900	.00
			Jul 30	--	.00
			Sep 24	0930	.00
			Sep 29	1140	1.6
			Oct 23	1240	.00
			Mar 12, 1981	1115	E1.0
			Apr 14	0650	E.02
			May 06	1030	E.02
May 11	1039	.90			
Jun 01	1100	E.03			
Jun 08	1440	E1.0			
Jun 24	1330	E.01			
Jul 09	1030	E.01			
Jul 29	0650	E.05			
Aug 11	1355	.00			
Aug 25	0930	.00			
Sep 23	0915	.00			
Nov 10	0913	3.6			
34°27'43"	96°15'47"	01S-10E-16 CCD 1	Jan 28, 1982	1040	.24
			May 26, 1977	0945	E.02
			Jun 14, 1978	1420	E.01
			Jun 27	1300	.05
			Nov 16	1325	.40
			Nov 26	1300	.99
			Feb 28, 1979	1022	2.3
			Mar 22	0900	38
			Apr 18	1308	4.2
			Jan 21, 1980	1650	.79
Jan 22	1615	.20			
Apr 02	2150	28			

Table 23.--Instantaneous stream discharge, periodic and miscellaneous measurement sites --Continued

[cfs, cubic feet per second; E, estimated]

Latitude	Longitude	Local number	Date	Time	Stream discharge (cfs)
34°27'43"	96°15'47"	01S-10E-16 CCD 1	Apr 25, 1980	1821	3.5
			Apr 25	1842	4.9
			Apr 25	1902	5.0
			Apr 25	1928	4.5
			May 15	1756	5.0
			Sep 24	1400	.00
			Jan 15, 1981	1430	E.10
			Feb 01	1815	.12
			Feb 13	0950	.07
			Feb 20	1605	.07
			Feb 27	0950	.06
			Mar 02	1745	.35
			Mar 03	1135	.20
			Mar 04	0240	14
			Mar 04	1435	4.0
			Mar 12	1155	.18
			Mar 18	1140	.11
			Mar 26	1100	.09
			Apr 02	0800	.07
			Apr 14	0930	.06
			May 06	1450	.02
			May 11	1800	.12
			May 20	0830	.04
			Jun 01	1800	.07
			Jun 08	1505	.11
			Jun 24	1600	E.01
			Jul 09	1115	E.01
			Jul 29	0750	E.05
			Aug 11	1330	E.01
			Aug 25	0830	E.01
			Aug 28	1515	E.05
			Sep 23	1115	.01
			Oct 15	0810	1.2
Oct 29	1015	.56			
Nov 10	1000	2.5			
Nov 23	1040	.32			
Jan 28, 1982	1205	.14			
34°27'43"	96°16'10"	01S-10E-20 AAB 1	May 26, 1977	1345	E.01
			Jan 07, 1981	1000	E.01
34°28'09"	96°15'15"	01S-10E-16 ADC 1	Jan 28, 1982	1510	.04
			Jan 28, 1982	1500	E.01

Table 24.--Quality of water data, at site 1, June 1978 to December 1981

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPE-CIFIC CON-DUCTANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	DIS-SOLVED (PER-CENT SATUR-ATION)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CAC03)	HARD-NESS, NONCAR-BONATE (MG/L CAC03)
JUN , 1978												
14...	1500	0.02	197	7.1	24.5	--	33	8.0	--	--	64	1
NOV												
16...	1645	.84	102	7.4	6.0	240	280	10.4	--	--	33	5
26...	1200	21	119	6.6	14.5	960	220	7.9	--	--	32	11
JAN , 1979												
17...	1120	2.9	75	6.8	.5	120	34	12.3	--	2.2	32	8
FEB												
27...	1230	5.0	110	6.9	7.0	120	54	11.1	--	2.9	35	13
28...	0740	21	102	6.9	7.5	--	--	10.1	--	--	--	--
MAR												
03...	0640	39	107	6.9	10.0	270	180	9.5	--	1.8	45	19
22...	1030	149	90	6.8	15.0	200	210	9.7	--	1.5	29	9
22...	1120	207	82	6.7	15.5	200	300	9.5	--	1.3	24	6
22...	1255	233	83	6.7	16.0	200	210	9.1	--	1.2	26	12
APR												
11...	0745	99	124	7.1	15.5	--	--	7.1	--	--	--	--
11...	0812	119	121	7.1	15.5	--	--	7.0	--	--	--	--
11...	0846	145	100	6.9	15.5	--	--	6.9	--	--	--	--
18...	1420	13	163	7.1	18.5	--	--	7.6	--	--	--	--
MAY												
03...	1945	.40	218	7.2	18.0	--	--	5.8	--	--	--	--
16...	0800	.10	250	7.1	19.5	40	14	4.1	--	1.2	100	15
21...	0233	9.8	216	7.2	20.5	--	--	5.2	--	--	--	--
21...	0345	26	175	7.2	20.5	--	--	6.1	--	--	--	--
21...	0530	92	151	7.0	21.0	--	--	5.6	--	--	--	--
21...	0700	157	79	6.8	20.0	--	--	6.5	--	--	--	--
21...	0800	145	70	6.8	20.0	--	--	6.7	--	--	--	--
21...	0948	73	73	6.8	20.0	--	--	6.5	--	--	--	--
23...	0930	21	87	6.8	20.0	--	--	7.8	--	--	--	--
29...	0014	369	--	--	--	--	--	--	--	--	--	--
29...	0105	296	--	--	--	--	--	--	--	--	--	--
JUN												
05...	1535	30	128	7.0	22.5	--	--	6.7	--	--	--	--
05...	1730	211	95	6.8	22.0	--	--	6.6	--	--	--	--
05...	1909	296	90	6.7	22.0	90	220	6.3	--	1.0	30	9

[CFS, cubic feet per second; UMHOS, micromhos per centimeter at 25°Celsius; DEG C, degrees Celsius; NTU, nephelometric turbidity units; MG/L, milligrams per liter; AC-Ft, acre-feet; UG/L, micrograms per liter]

Table 24.--Quality of water data, at site 1, June 1978 to December 1981 --Continued

[CFS, cubic feet per second; UMHOS, micromhos per centimeter at 25° Celsius; DEG C, degrees Celsius; NTU, nephelometric turbidity units; MG/L, milligrams per liter; AC-FT, acre-feet; UG/L, micrograms per liter]

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SODIUM+ POTAS- SIUM DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY FIELD (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)
JUN , 1978												
14...	15	6.4	12	27	0.7	--	4.1	63	13	7.5	0.20	13
NOV												
16...	9.2	2.4	5.1	23	.4	--	2.8	28	12	3.1	.20	3.7
26...	7.5	3.3	4.6	20	.4	--	5.1	21	21	4.7	.10	4.9
JAN , 1979												
17...	7.5	3.3	4.4	20	.3	--	4.0	24	14	3.4	.10	7.0
FEB												
27...	8.6	3.4	6.0	25	.5	--	2.6	23	16	5.4	.10	8.0
28...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
03...	12	3.7	6.5	23	.4	--	2.7	26	15	5.2	.10	8.2
22...	6.6	3.0	5.0	25	.4	7.7	2.7	20	10	4.7	.10	9.1
22...	5.5	2.6	4.8	27	.4	--	2.7	18	11	3.5	.10	12
22...	5.9	2.7	4.3	24	.4	7.0	2.7	14	11	3.6	.10	8.5
APR												
11...	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
03...	--	9.7	16	25	.7	21	5.2	85	17	13	.30	3.2
16...	24	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
05...	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--
05...	7.8	2.5	4.4	22	.4	8.1	3.7	21	8.3	10	.10	7.1

Table 24.--Quality of water data, at site 1, June 1978 to December 1981 --Continued

[CFS, cubic feet per second; UMHOS, micromhos per centimeter at 25° Celsius; DEG C, degrees Celsius; NTU, nephelometric turbidity units; MG/L, milligrams per liter; AC-FT, acre-feet; UG/L, micrograms per liter]

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SODIUM+ POTAS- SIUM DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY FIELD (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)
FEB , 1980												
08...	4.7	2.2	4.8	30	0.5	7.3	2.5	--	9.7	3.6	0.10	4.7
09...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
03...	13	6.2	12	29	.7	--	5.8	--	16	12	.20	2.6
MAY												
15...	14	6.0	7.5	21	.4	--	2.4	--	10	6.3	.10	7.6
19...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
28...	3.4	1.6	2.1	19	.2	--	3.0	--	15	2.6	.10	1.8
28...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
08...	3.9	1.8	2.9	23	.3	--	3.2	--	4.5	2.8	.40	4.9
FEB , 1981												
26...	15	6.5	22	41	1.2	--	3.3	--	27	17	.10	4.5
MAR												
03...	7.9	3.5	6.7	28	.5	--	2.5	--	12	4.5	.00	8.5
03...	--	--	--	--	--	--	--	--	--	--	--	--
04...	9.0	2.5	4.2	--	.3	--	--	--	--	--	--	7.8
APR												
23...	20	9.2	17	28	.8	--	6.6	--	5.0	12	.20	6.0
OCT												
13...	1.8	.7	5.6	53	.9	--	2.6	--	7.0	4.1	.10	2.6
14...	4.6	2.0	3.8	25	.4	--	3.6	--	<5.0	8.6	.10	7.8
NOV												
10...	8.2	3.8	6.0	24	.4	--	3.4	--	9.0	10	.10	11
DEC												
01....	7.9	3.4	6.0	25	.5	--	3.9	--	8.0	20	.10	9.3

Table 24.--Quality of water data, at site 1, June 1978 to December 1981 --Continued

[CFS, cubic feet per second; UMHOS, micromhos per centimeter at 25°Celsius; DEG C, degrees Celsius; NTU, nephelometric turbidity units; MG/L, milligrams per liter; AC-FT, acre-feet; UG/L, micrograms per liter]

DATE	SOLIDS RESIDUE AT 180 DEG C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+N03 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)
JUN , 1978												
14...	118	110	0.16	0.01	--	--	--	--	--	--	--	--
NOV 16...	79	56	.11	.18	--	--	0.77	1.6	0.14	0.02	--	0.03
26...	80	65	.11	4.5	--	--	.50	.57	.38	.04	--	.05
JAN , 1979												
17...	90	59	.12	.70	--	--	1.0	.99	.57	.17	--	.22
FEB 27...	81	64	.11	1.1	--	--	2.0	2.0	.06	<.01	--	.00
28...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 03...	88	69	.12	9.3	0.88	0.12	1.0	.97	--	.03	--	.04
22...	76	54	.10	30.6	--	--	.82	.80	.12	.02	--	.03
22...	65	54	.09	36.3	--	--	.48	.45	.10	.04	--	.05
22...	72	48	.10	45.3	--	--	.44	.41	.09	.04	--	.05
APR 11...	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 03...	160	140	.22	.04	--	--	.35	.27	.32	.30	.39	.39
16...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 05...	--	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--	--
05...	58	57	.08	46.4	--	--	.15	.14	.12	.01	.15	.01

Table 24.--Quality of water data, at site 1, June 1978 to December 1981 --Continued

[CFS, cubic feet per second; UMHOS, micromhos per centimeter at 25°Celsius; DEG C, degrees Celsius; NTU, nephelometric turbidity units; MG/L, milligrams per liter; AC-FT, acre-feet; UG/L, micrograms per liter]

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+N03 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)
FEB , 1980												
08...	55	43	0.07	5.5	--	--	0.36	0.33	0.16	0.03	0.19	0.04
09...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
03...	131	103	.18	8.5	--	--	.96	.17	.41	.17	.50	.22
MAY												
15...	123	87	.17	10.3	--	--	.15	.13	.89	.65	1.1	.84
19...	--	--	--	--	--	--	.23	--	.19	--	.23	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
28...	51	34	.07	21.6	--	--	.69	.67	.04	.00	.05	.00
28...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
08...	59	35	.08	15.1	--	--	.41	.39	.07	.07	.08	.09
FEB , 1981												
26...	134	132	.18	.01	--	--	.00	.00	.08	.08	--	.10
MAR												
03...	66	59	.09	7.5	--	--	.32	.32	.15	.14	--	.18
03...	--	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
23...	174	138	.24	2.1	--	--	.14	.16	.77	.79	--	1.0
OCT												
13...	80	26	.11	503	--	--	.11	.11	.16	.15	--	.19
14...	76	--	.10	7.4	--	--	--	--	--	--	--	--
NOV												
10...	98	70	.13	3.2	0.35	0.04	.39	.23	.24	.22	--	.28
DEC												
01...	104	75	.14	3.7	--	--	.45	.32	.19	.17	--	.22

Table 24.--Quality of water data, at site 1, June 1978 to December 1981 --Continued

[CFS, cubic feet per second; UMHOS, micromhos per centimeter at 25° Celsius; DEG C, degrees Celsius; NTU, nephelometric turbidity units; MG/L, milligrams per liter; AC-FT, acre-feet; UG/L, micrograms per liter]

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DISELVED TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DLS. TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N03)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL (MG/L AS P04)	PHOS- PHORUS TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
JUN , 1978										
14...	--	--	--	--	--	--	0.09	--	--	0.02
NOV										
16...	1.2	0.79	1.30	--	0.81	9.2	.38	--	--	.10
26...	2.1	1.1	2.50	--	1.1	13	.39	--	--	.06
JAN , 1979										
17...	1.4	1.0	2.00	--	1.2	13	.21	--	--	.10
FEB										
27...	1.0	.92	1.10	--	.92	14	.11	--	--	.06
28...	--	--	--	--	--	--	--	--	--	--
MAR										
03...	--	.82	--	--	.85	--	.15	--	--	.07
22...	2.0	.70	2.10	--	.72	13	.19	--	--	.05
22...	2.3	.79	2.40	--	.83	13	.18	--	--	.05
22...	2.0	.77	2.10	--	.81	11	.10	--	--	.05
APR										
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
MAY										
03...	.88	.64	1.20	.26	.94	6.9	.06	.18	.18	<.01
16...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
JUN										
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	1.9	.88	2.00	1.1	.89	9.5	.24	.74	.74	.05

Table 24.--Quality of water data, at site 1, June 1978 to December 1981 --Continued

[CFS, cubic feet per second; UMH0S, micromhos per centimeter at 25°Celsius; DEG C, degrees Celsius; NTU, nephelometric turbidity units; MG/L, milligrams per liter; AC-FT, acre-feet; UG/L, micrograms per liter]

DATE	NITRO- GEN ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N03)	PHOS- PHATE, TOTAL, (MG/L AS P04)	PHOS- PHORUS, TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
FEB , 1980										
08....	2.4	0.83	2.60	1.7	0.86	3.0	13	0.22	0.67	0.09
09....	--	--	--	--	--	--	--	--	--	--
APR										
03....	1.7	1.8	2.10	.10	2.0	3.1	14	.19	.58	.06
MAY										
15....	1.6	.45	2.50	1.4	1.1	2.7	12	.26	.80	.07
19....	1.6	--	1.80	--	--	2.0	9.0	.26	.80	--
30....	--	--	--	--	--	--	--	--	--	--
30....	--	--	--	--	--	--	--	--	--	--
SEP										
28....	1.1	1.1	1.10	.00	1.1	1.8	7.9	.15	.46	.17
28....	--	--	--	--	--	--	--	--	--	--
29....	--	--	--	--	--	--	--	--	--	--
DEC										
08.... 1981	1.4	.92	1.50	.51	.99	1.9	8.5	.14	.43	.09
FEB ,										
26....	1.5	.86	1.60	.66	.94	1.6	7.1	.10	.31	.05
MAR										
03....	1.6	.96	1.70	.60	1.1	2.0	8.9	.18	.55	.08
03....	--	--	--	--	--	--	--	--	--	--
04....	--	--	--	--	--	--	--	--	--	--
APR										
23....	1.2	.91	2.00	.30	1.7	2.1	9.5	.18	.55	.06
OCT										
13....	--	--	--	--	--	--	--	--	--	--
14....	1.1	.70	1.30	.45	.85	1.4	6.2	.06	.18	.05
NOV										
10....	.72	.60	.96	.14	.82	1.4	6.0	.08	.25	.07
DEC										
01....	.91	.61	1.10	.32	.78	1.6	6.9	.06	.18	.06

Table 24.--Quality of water data, at site 1, June 1978 to December 1981 --Continued

[CFS, cubic feet per second; UMHOS, micromhos per centimeter at 25°Celsius; DEG C, degrees Celsius; NTU, nephelometric turbidity units; MG/L, milligrams per liter; AC-FT, acre-feet; UG/L, micrograms per liter]

DATE	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDE D RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	BORON, SUS- PENDE RECOV- ERABLE (UG/L AS B)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM, TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)
JUN , 1978	800	--	300	3	--	3	--	--	80	9	--
NOV 14...	4500	4200	260	2	1	1	90	40	50	ND	0
NOV 16...	8100	7900	220	3	2	1	140	60	80	6	>5
JAN , 1979	1000	910	90	1	<1	1	70	10	60	<2	0
FEB 17...	1600	1500	<100	1	1	<1	70	10	60	ND	0
FEB 27...	4300	4200	110	1	1	<1	80	0	90	ND	0
MAR 03...	5100	5000	50	1	1	<1	90	30	60	ND	0
MAR 22...	5800	5700	120	2	2	<1	90	20	70	<2	1
MAR 22...	7700	7600	130	2	2	<1	70	0	70	ND	0
MAR 22...	8200	8100	90	2	2	<1	90	20	70	ND	0
APR 11...	10000	9900	90	3	2	1	90	20	70	ND	0
APR 11...	9500	9400	80	2	1	1	60	0	80	<2	--
APR 11...	12000	12000	150	3	2	1	80	10	70	ND	0
APR 18...	530	480	50	4	2	2	80	0	80	ND	0
MAY 03...	250	220	30	3	<1	3	110	50	60	<2	1
MAY 16...	410	390	20	3	3	3	80	10	70	ND	0
MAY 21...	5500	5300	210	3	2	2	110	50	60	<2	0
MAY 21...	9600	9500	120	5	2	3	120	50	70	ND	0
MAY 21...	9700	9500	210	5	3	2	110	50	60	ND	0
MAY 21...	9600	8900	660	5	3	2	--	--	--	ND	0
MAY 21...	12000	12000	140	5	3	2	110	30	80	<2	1
MAY 21...	7000	6900	90	2	<1	2	120	50	70	<2	1
MAY 23...	970	950	20	2	2	2	70	0	70	ND	0
MAY 29...	4000	3800	190	3	<1	3	90	30	60	<2	1
MAY 29...	5200	5100	<100	4	2	2	100	40	60	ND	0
JUN 05...	2600	2600	40	3	3	2	140	50	90	<2	0
JUN 05...	10000	10000	30	2	2	2	80	50	30	ND	0
JUN 05...	7700	7700	40	2	2	2	60	30	30	ND	8

Table 24.--Quality of water data, at site 1, June 1978 to December 1981 --Continued

[CFS, cubic feet per second; UMHOS, micromhos per centimeter at 25°Celsius; DEG C, degrees Celsius; NTU, nephelometric turbidity units; MG/L, milligrams per liter; AC-FT, acre-feet; UG/L, micrograms per liter]

DATE	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDE D RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE D TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	BORON, SUS- PENDE D RECOV- ERABLE (UG/L AS B)	BORON, DIS- SOLVED (UG/L AS B)	CADMIIUM, TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIIUM SUS- PENDE D RECOV- ERABLE (UG/L AS CD)
FEB , 1980											
08....	3800	3600	170	3	1	2	80	30	50	0	0
09....	2300	2200	100	3	1	2	80	10	70	0	0
APR											
03....	5700	5600	70	4	2	2	110	20	90	0	0
MAY											
15....	4800	4800	50	5	1	4	100	20	80	10	8
19....	5100	--	--	3	--	--	60	--	--	10	--
30....	--	--	480	2	0	2	70	30	40	0	0
30....	2900	2900	10	1	0	1	100	40	60	0	0
SEP											
28....	420	370	50	3	1	2	60	10	50	0	0
28....	400	220	180	4	2	2	40	0	40	0	0
29....	320	140	180	3	1	2	50	10	40	0	0
DEC											
08....	650	550	100	2	1	1	190	170	20	0	0
FEB , 1981											
26....	830	820	10	3	1	2	280	230	50	0	0
MAR											
03....	4400	4400	40	10	8	2	280	250	30	0	0
03....	--	--	60	3	2	1	260	240	20	6	6
04....	1700	1600	60	2	0	2	250	230	20	6	--
APR											
23....	2200	2200	30	3	1	2	230	60	170	17	15
OCT											
13....	1400	1400	30	1	1	0	210	190	20	0	--
14....	1300	1200	100	1	0	1	220	190	30	0	--
NOV											
10....	940	920	20	1	0	1	200	180	20	<30	--
DEC											
01....	1000	990	10	--	--	<1	210	190	20	--	--

Table 24.--Quality of water data, at site 1, June 1978 to December 1981 --Continued

[CFS, cubic feet per second; UMHOS, micromhos per centimeter at 25°Celsius; DEG C, degrees Celsius; NTU, nephelometric turbidity units; MG/L, milligrams per liter; AC-FT, acre-feet; UG/L, micrograms per liter]

DATE	CADMIUM DIS- SOLVED (UG/L) AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L) AS CR)	CHRO- MIUM, SUS- PENDE- D RECOV- ERABLE (UG/L) AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L) AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L) AS CU)	COPPER, SUS- PENDE- D RECOV- ERABLE (UG/L) AS CU)	COPPER, DIS- SOLVED (UG/L) AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L) AS FE)	IRON, SUS- PENDE- D RECOV- ERABLE (UG/L) AS FE)	IRON, DIS- SOLVED (UG/L) AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L) AS PB)
JUN , 1978											
14....	ND	5	--	<20	8	--	ND	2700	--	380	ND
NOV											
16....	<2	20	20	ND	11	1	<20	7300	7100	190	7
26....	<2	<20	10	ND	13	10	3	12000	11000	660	14
JAN , 1979											
17....	2	ND	0	ND	6	1	5	2100	1500	600	<2
FEB											
27....	ND	ND	0	ND	13	12	<2	1500	1300	200	19
28....	ND	<20	10	ND	8	6	2	4600	4400	230	25
MAR											
03....	ND	<20	10	ND	8	6	2	5400	5100	280	17
22....	ND	<20	10	ND	12	10	2	7300	7000	270	34
22....	ND	<20	10	ND	14	12	2	9800	9500	330	32
22....	ND	<20	10	ND	13	11	2	11000	11000	250	19
APR											
11....	<2	20	20	ND	16	12	4	14000	13000	530	66
11....	--	<20	--	--	16	--	--	13000	12000	550	45
11....	ND	40	40	ND	18	14	4	15000	15000	400	56
18....	<2	<20	0	<20	2	0	2	1400	900	500	30
MAY											
03....	ND	20	20	ND	ND	0	ND	1000	690	310	6
16....	2	20	0	20	2	2	ND	910	820	90	9
21....	3	20	0	20	7	0	<20	6200	6100	80	40
21....	ND	30	10	20	<20	4	6	12000	12000	270	17
21....	<2	30	10	20	13	3	<20	14000	14000	510	39
21....	ND	30	10	20	14	8	6	12000	11000	550	23
21....	ND	30	0	30	12	8	4	14000	14000	300	24
21....	ND	30	10	20	8	5	3	--	--	440	23
23....	<2	20	10	<20	7	7	ND	1400	1200	250	17
29....	ND	20	0	20	7	2	5	4900	4500	430	16
29....	ND	20	0	30	9	6	3	5700	5500	160	25
JUN											
05....	<2	20	10	<20	7	7	ND	3800	3700	130	25
05....	<2	30	10	20	<20	9	<2	13000	13000	220	140
05....	ND	20	0	30	9	9	ND	10000	9900	100	51

Table 24.--Quality of water data, at site 1, June 1978 to December 1981 --Continued

[CFS, cubic feet per second; UMHOS, micromhos per centimeter at 25°Celsius; DEG C, degrees Celsius; NTU, nephelometric turbidity units; MG/L, milligrams per liter; AC-FT, acre-feet; UG/L, micrograms per liter]

DATE	CADMIUM DLS- SOLVED (UG/L) AS CD)	CHRO- MIUM TOTAL RECOV- ERABLE (UG/L) AS CR)	CHRO- MIUM, SUS- PENDED RECOV. (UG/L) AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L) AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L) AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L) AS CU)	COPPER, DIS- SOLVED (UG/L) AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L) AS FE)	IRON, SUS- PENDED RECOV- ERABLE (UG/L) AS FE)	IRON, DIS- SOLVED (UG/L) AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L) AS PB)
FEB ' 1980											
08....	0	20	0	20	10	10	0	4500	4300	200	0
09....	<1	20	0	20	0	0	2	2600	2300	290	0
APR											
03....	1	20	0	20	0	0	3	10000	9600	400	0
MAY											
15....	2	20	10	10	0	0	4	7900	6700	1200	0
19....	--	30	--	--	--	--	--	5800	--	--	0
30....	4	20	10	10	1	0	5	6200	5800	420	0
30....	3	0	0	0	0	0	6	4200	3800	420	0
SEP											
28....	1	20	10	10	30	25	5	4800	4600	220	0
28....	1	10	0	10	30	22	8	3600	2900	660	100
29....	3	10	0	10	30	22	8	2000	1300	670	100
DEC											
08.... 1981	2	0	0	0	0	0	4	3500	3100	380	0
FEB ' 1981											
26....	0	0	0	0	29	24	5	3600	3200	370	200
MAR											
03....	1	0	0	0	29	27	2	5600	5200	440	200
03....	0	0	0	0	29	25	4	--	--	290	200
04....	<1	0	0	0	29	25	4	1900	1500	410	200
APR											
23....	2	10	0	10	160	160	5	4300	3700	560	0
OCT											
13....	<1	10	10	0	0	0	7	3800	3700	83	0
14....	<1	10	10	0	0	0	13	2900	2500	390	0
NOV											
10....	<1	10	--	<10	130	120	6	1700	1500	250	<100
DEC											
01....	<1	--	--	<10	--	--	4	1700	1600	110	--

Table 24.--Quality of water data, at site 1, June 1978 to December 1981 --Continued

[CFS, cubic feet per second; UMHOS, micromhos per centimeter at 25° Celsius; DEG C, degrees Celsius; NTU, nephelometric turbidity units; MG/L, milligrams per liter; AC-FT, acre-feet; UG/L, micrograms per liter]

DATE	LEAD, SUS- PENDE- RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, PENDE- RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY PENDE- RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENIUM, TOTAL RECOV- ERABLE (UG/L AS MO)	MOLYB- DENIUM, SUS- PENDE- RECOV. (UG/L AS MO)	MOLYB- DENIUM, DIS- SOLVED (UG/L AS MO)
JUN , 1978										
14....	--	740	--	690	<0.1	--	<0.1	4	--	1
NOV										
16....	7	120	80	40	<.1	0.0	<.1	<.1	0	<.1
26....	14	520	260	260	<.1	.0	<.1	<.1	0	<.1
JAN , 1979										
17....	0	220	40	180	<.1	.1	<.1	<.1	0	<.1
FEB										
27....	19	70	30	40	<.1	.1	<.1	<.1	0	<.1
28....	25	140	110	30	<.1	.1	<.1	<.1	0	<.1
MAR										
03....	17	170	140	30	<.1	.1	<.1	<.1	0	<.1
22....	34	310	270	40	<.1	.1	<.1	<.1	0	<.1
22....	32	510	470	40	<.1	.0	<.1	<.1	0	<.1
22....	19	500	420	80	<.1	.1	<.1	<.1	0	<.1
APR										
11....	66	720	670	50	<.1	.1	<.1	<.1	0	<.1
11....	--	690	630	60	<.3	--	--	1	1	<.1
11....	56	720	680	40	<.1	.1	<.1	<.1	0	<.1
18....	30	160	70	90	<.1	.0	<.1	<.1	0	<.1
MAY										
03....	6	260	60	200	<.1	.0	<.1	<.1	0	<.1
16....	9	360	40	320	<.1	.1	<.1	<.1	0	<.1
21....	37	600	280	320	<.1	.1	<.1	<.1	0	<.1
21....	16	1100	540	560	<.1	.0	<.1	<.1	0	<.1
21....	37	1500	1000	470	<.2	.2	<.1	<.1	0	<.1
21....	21	850	610	240	<.1	.1	<.1	<.1	0	<.1
21....	23	700	500	200	<.1	.1	<.1	<.1	0	<.1
21....	22	420	260	160	<.1	.1	<.1	<.1	0	<.1
23....	17	100	40	60	<.1	.0	<.1	17	17	<.1
29....	14	250	180	70	<.1	.1	<.1	<.1	0	<.1
29....	24	240	180	60	<.1	.1	<.1	<.1	0	<.1
JUN										
05....	25	190	120	70	<.1	.1	<.1	<.1	0	<.1
05....	140	700	630	70	<.2	.1	<.1	<.1	0	<.1
05....	47	600	520	80	<.1	.0	<.1	<.1	0	<.1

Table 24.--Quality of water data, at site 1, June 1978 to December 1981 --Continued

[CFS, cubic feet per second; UMHOS, micromhos per centimeter at 25° Celsius; DEG C, degrees Celsius; NTU, nephelometric turbidity units; MG/L, milligrams per liter; AC-FT, acre-feet; UG/L, micrograms per liter]

DATE	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, PENDE RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	MOLYB- DENUM, SUS- PENDE RECOV. (UG/L AS MO)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)
FEB , 1980										
08...	0	200	130	70	0.2	0.1	0.1	1	1	0
09...	0	90	50	40	.1	.1	.0	2	0	<10
APR										
03...	0	560	380	180	.1	.0	.2	1	--	<10
MAY										
15...	0	930	310	620	.2	.2	.0	0	0	0
19...	--	350	--	--	.2	--	--	0	--	--
30...	0	300	200	100	.1	.1	.0	0	--	<10
30...	0	250	180	70	.1	.1	.0	0	--	<10
SEP										
28...	0	110	100	10	.1	.1	.0	1	--	<10
28...	94	90	80	10	.2	.1	.1	1	--	<10
29...	96	50	40	10	.1	.0	.1	1	--	<10
DEC										
08...	0	170	90	80	.0	.0	.0	2	--	<10
FEB , 1981										
26...	200	350	130	220	.1	.1	.0	2	1	1
MAR										
03...	200	160	110	50	.1	.1	.0	2	--	<10
03...	200	490	470	20	.1	.1	.0	2	1	1
04...	200	90	30	60	.1	.1	.0	1	--	<10
APR										
23...	0	620	130	490	.3	.3	.0	--	--	<10
OCT										
13...	0	100	60	43	.4	.4	.0	<1	--	<10
14...	0	120	50	73	.1	.1	.0	1	--	<10
NOV										
10...	--	70	20	50	<.1	--	<.1	2	--	<10
DEC										
01...	--	70	30	39	--	--	.1	1	--	<10

Table 24.--Quality of water data, at site 1, June 1978 to December 1981 --Continued

DATE	SELLE- NIUM, TOTAL (UG/L AS SE)	SELLE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON ORGANIC DIS- SOLVED (MG/L AS C)	CARBON ORGANIC TOTAL (MG/L AS C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JUN , 1978										
14....	1	<1	20	--	5	--	--	--	--	--
NOV										
16....	1	1	50	30	20	--	--	378	0.86	100
26....	2	<1	50	45	5	--	--	519	29	95
JAN , 1979										
17....	<1	<1	20	0	20	--	--	--	--	--
FEB										
27....	<1	<1	30	30	ND	--	--	69	9.93	93
28....	<1	1	40	30	<20	--	--	139	7.9	94
MAR										
03....	<1	<1	40	40	ND	--	--	238	25	96
22....	1	<1	40	30	<20	--	--	280	113	85
22....	1	<1	50	40	<20	--	--	350	196	85
22....	<1	1	40	30	<20	--	--	395	248	85
APR										
11....	<1	<1	70	60	<20	--	--	686	183	83
11....	1	<1	70	--	--	--	--	725	233	87
11....	1	<1	70	60	<20	--	--	864	338	85
18....	<1	<1	20	20	<3	--	--	64	2.2	88
MAY										
03....	<1	<1	<20	0	<20	--	--	30	.03	96
16....	1	1	20	10	<20	--	--	53	.01	98
21....	<1	<1	30	20	<20	--	--	227	6.0	96
21....	<1	<1	40	30	<20	--	--	456	32	90
21....	<1	<1	30	0	30	--	--	735	183	77
21....	<1	<1	70	60	<20	--	--	755	320	83
21....	<1	<1	50	40	<20	--	--	589	231	86
21....	<1	<1	40	30	<20	--	--	--	--	--
23....	<1	1	<20	0	<20	--	--	60	3.4	87
29....	<1	<1	40	30	<20	--	--	306	305	82
29....	<1	<1	50	40	<20	--	--	299	239	86
JUN										
05....	1	<1	40	40	ND	--	--	168	14	90
05....	1	<1	50	40	<20	--	--	844	481	75
05....	1	<1	50	50	ND	--	--	743	594	74

[CFS, cubic feet per second; UMHOS, micromhos per centimeter at 25°Celsius; DEC C, degrees Celsius; NTU, nephelometric turbidity units; MG/L, milligrams per liter; AC-FT, acre-feet; UG/L, micrograms per liter]

Table 24.--Quality of water data, at site 1, June 1978 to December 1981 --Continued

DATE	SELLENIUM, TOTAL (UG/L AS SE)		ZINC, TOTAL RECOVERABLE (UG/L AS ZN)		ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)		ZINC, DISSOLVED (UG/L AS ZN)		CARBON ORGANIC, DISSOLVED (MG/L AS C)		CARBON ORGANIC, SUSPENDED TOTAL (MG/L AS C)		SEDIMENT, CHARGE, SUSPENDED (T/DAY)		SEDIMENT, SUSPENDED, % FINER THAN .062 MM	
	<	>	<	>	<	>	<	>	<	>	<	>	<	>	<	>
FLB , 1980																
08...	0	0	60	0	0	60	0	60	--	--	--	160	16	99		
09...	0	0	40	10	10	30	10	30	--	--	71	1.1	98			
APR																
03...	0	0	30	0	0	30	0	20	--	--	322	21	96			
MAY																
15...	0	0	70	0	0	70	0	70	20	4.3	231	19	95			
19...	0	--	70	--	--	70	--	150	--	--	282	62	93			
30...	0	0	40	0	0	40	0	10	--	--	432	694	--			
30...	0	0	70	60	60	70	10	10	--	--	211	117	--			
SEP																
28...	0	0	50	40	40	50	9	9	--	--	209	89	88			
28...	0	0	40	20	20	40	20	20	--	--	139	32	91			
29...	0	0	60	10	10	60	50	50	--	--	55	1.8	84			
DEC																
08...	0	0	60	20	20	60	40	40	--	--	140	36	--			
FLB , 1981																
26...	0	0	80	0	0	80	80	80	--	--	33	.00	93			
MAR																
03...	0	0	120	100	100	120	20	20	--	--	232	26	--			
03...	0	0	40	20	20	40	20	20	--	--	--	--	--			
04...	0	0	60	50	50	60	10	10	--	--	85	9.2	--			
APR																
23...	0	0	390	300	300	390	90	90	--	--	75	.89	89			
OCT																
13...	0	0	100	30	30	100	70	70	--	--	170	1070	--			
14...	0	0	60	20	20	60	36	36	--	--	95	9.2	--			
NOV																
10...	<	>	40	40	40	40	5	5	--	--	20	.65	94			
DEC																
01...	--	<	--	<	--	--	37	37	--	--	38	1.3	90			

Table 25.--Average daily specific conductance, in micromhos per centimeter at 25 degrees Celsius, at site 1

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	183	---	---	---	---
6	---	---	---	---	---	---	---	177	---	---	---	---
7	---	---	---	---	---	---	---	174	---	---	---	---
8	---	---	---	---	---	---	---	175	178	---	---	---
9	---	---	---	---	---	---	---	184	176	---	---	---
10	---	---	---	---	---	---	---	189	168	---	---	---
11	---	---	---	---	---	---	---	194	171	---	---	---
12	---	---	---	---	---	---	---	199	177	---	---	---
13	---	---	---	---	---	---	---	208	186	---	---	---
14	---	---	---	---	---	---	---	215	---	---	---	---
15	---	---	---	---	---	---	---	221	---	---	---	---
16	---	---	---	---	---	---	---	228	---	---	---	---
17	---	---	---	---	---	---	---	225	---	---	---	---
18	---	---	---	---	---	---	---	218	---	---	---	---
19	---	---	---	---	---	---	---	223	---	---	---	---
20	---	---	---	---	---	---	---	228	---	---	---	---
21	---	---	---	---	---	---	---	230	---	---	---	---
22	---	---	---	---	---	---	---	228	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	239	---	---	---	---
26	---	---	---	---	---	---	---	244	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MEAN	---	---	---	---	---	---	---	209	176	---	---	---

Water year October 1977 to September 1978

Table 25.--Average daily specific conductance, in micromhos per centimeter at 25 degrees Celsius, at site 1 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	132	109	158	208	148	---	---	52
2	---	---	---	---	133	117	159	212	---	---	---	64
3	---	---	---	---	132	108	162	218	---	---	---	---
4	---	---	---	---	139	107	166	225	---	---	---	---
5	---	---	---	---	135	112	167	231	128	---	---	---
6	---	---	---	---	142	118	168	235	107	---	---	---
7	---	---	---	---	144	122	169	238	---	---	---	---
8	---	---	---	---	136	127	174	232	---	---	---	---
9	---	---	---	---	122	131	180	---	165	---	---	---
10	---	---	---	---	---	134	185	---	183	---	---	---
11	---	---	---	---	119	---	111	221	188	---	---	---
12	---	---	---	---	80	---	102	236	195	---	---	---
13	---	---	---	---	86	---	118	246	201	---	---	---
14	---	---	---	---	109	---	130	---	206	---	---	---
15	---	---	---	114	122	---	139	255	210	---	---	---
16	---	---	---	122	94	---	148	258	216	---	---	---
17	---	141	---	92	---	---	157	261	222	---	---	---
18	---	135	---	89	---	162	157	266	226	235	---	---
19	---	---	---	111	---	---	151	271	229	---	---	---
20	---	---	---	100	---	---	159	---	---	---	---	---
21	---	---	---	103	---	101	161	103	---	---	---	---
22	---	---	---	106	---	92	162	---	---	---	---	---
23	---	---	---	110	---	103	171	97	---	---	---	---
24	---	---	---	109	---	120	176	121	---	---	---	---
25	---	182	---	117	---	132	185	143	---	---	---	---
26	---	---	---	111	---	144	191	155	---	---	---	---
27	---	---	---	113	---	150	196	---	---	---	---	---
28	---	---	---	116	108	151	201	---	---	---	---	---
29	---	---	---	119	---	158	203	---	---	---	---	---
30	---	---	---	120	---	164	205	124	---	---	---	---
31	---	---	---	125	---	159	---	136	---	---	---	---
MEAN	---	153	---	110	121	128	164	204	179	235	---	58

Water year October 1978 to September 1979

Table 25.--Average daily specific conductance, in micromhos per centimeter at 25 degrees Celsius, at site 1 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	159	---	---	146	158	---	180	122	---	---	---
2	---	---	---	---	146	161	246	93	138	---	---	---
3	---	---	---	---	143	166	130	93	149	---	---	---
4	---	---	---	---	144	164	125	107	159	---	---	---
5	---	---	---	---	145	166	133	118	164	---	---	---
6	---	---	---	---	149	168	139	125	170	---	---	---
7	---	---	---	---	153	171	144	133	175	---	---	---
8	---	---	---	---	101	176	150	145	---	---	---	---
9	---	---	---	---	63	180	155	151	---	---	---	---
10	---	---	---	---	73	183	162	156	---	---	---	---
11	---	---	---	---	81	186	167	161	---	---	---	---
12	---	---	---	---	92	190	170	166	---	---	---	---
13	---	---	---	---	100	195	171	173	---	---	---	---
14	---	---	---	---	103	198	172	180	---	---	---	---
15	---	---	---	---	105	201	177	144	---	---	---	---
16	---	---	---	---	111	204	182	97	---	---	---	---
17	---	---	---	---	114	207	181	103	---	---	---	---
18	---	---	---	---	116	209	185	96	---	---	---	---
19	---	---	---	---	116	212	189	80	---	---	---	---
20	---	---	---	216	119	---	193	107	112	---	---	---
21	---	---	---	153	125	---	---	121	99	---	---	---
22	---	---	---	145	130	---	---	140	108	---	---	---
23	---	---	---	147	134	---	---	150	---	---	---	---
24	---	---	---	140	143	---	---	157	---	---	---	---
25	---	---	---	132	147	---	---	161	---	---	---	---
26	---	---	---	135	151	---	200	165	---	---	---	---
27	---	---	---	138	151	---	211	171	---	---	---	---
28	---	---	---	136	150	---	205	176	---	---	---	47
29	---	---	---	137	155	---	205	---	---	---	---	70
30	---	---	---	136	---	---	201	---	---	---	---	79
31	156	---	---	141	---	---	---	101	---	---	---	---
MEAN	156	159	---	146	124	184	175	136	140	---	---	65

Water year October 1979 to September 1980

Table 25.--Average daily specific conductance, in micromhos per centimeter at 25 degrees Celsius,
at site 1 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	---	150	---	206	---	---	---	---	---	---	---
2	---	---	---	---	203	---	224	---	135	---	---	---
3	---	---	---	---	206	109	226	---	118	---	---	---
4	---	---	---	---	208	69	225	---	118	170	---	---
5	---	---	159	---	---	95	229	---	---	163	---	---
6	---	---	163	165	---	109	232	---	---	---	---	---
7	---	---	169	168	---	120	235	---	---	---	---	---
8	---	---	---	168	---	125	237	---	---	174	---	---
9	---	---	79	168	---	128	---	---	154	---	---	---
10	---	---	93	175	---	133	---	---	165	---	---	---
11	---	---	---	---	---	138	---	101	174	---	---	---
12	---	---	---	---	---	145	---	114	178	---	---	---
13	---	---	---	---	165	152	---	125	184	---	---	---
14	---	---	---	---	---	159	250	134	186	---	---	---
15	---	---	---	---	---	165	---	142	175	---	---	---
16	---	---	---	185	---	173	---	145	110	---	---	---
17	---	199	---	183	---	179	---	148	128	---	---	---
18	114	125	---	181	---	183	---	155	134	---	---	---
19	---	---	---	182	---	184	---	161	143	---	---	---
20	---	---	---	185	216	190	---	167	151	---	---	---
21	---	---	---	182	219	196	---	170	---	---	---	---
22	---	---	---	188	---	---	---	172	---	---	---	---
23	---	---	---	---	---	---	213	---	---	---	---	---
24	---	---	---	---	---	---	181	---	---	---	---	---
25	---	---	---	---	---	---	199	---	---	---	---	---
26	---	136	---	---	---	217	---	---	---	---	---	---
27	---	133	---	---	232	---	---	---	---	---	---	---
28	64	137	---	---	---	---	---	---	---	---	84	---
29	71	141	---	---	---	---	---	---	---	---	---	---
30	76	145	---	---	---	---	232	---	---	---	---	---
31	---	---	---	202	---	---	---	---	---	---	---	---
MEAN	82	145	136	179	207	148	224	145	150	169	84	---

Water year October 1980 to September 1981

Table 26.--Average daily pH, in standard units, at site 1

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	7.2	---	---	---	---
6	---	---	---	---	---	---	---	7.1	---	---	---	---
7	---	---	---	---	---	---	---	7.1	---	---	---	---
8	---	---	---	---	---	---	---	7.1	7.4	---	---	---
9	---	---	---	---	---	---	---	7.1	7.3	---	---	---
10	---	---	---	---	---	---	---	7.1	7.2	---	---	---
11	---	---	---	---	---	---	---	7.1	7.2	---	---	---
12	---	---	---	---	---	---	---	7.2	7.1	---	---	---
13	---	---	---	---	---	---	---	7.2	7.1	---	---	---
14	---	---	---	---	---	---	---	7.2	---	---	---	---
15	---	---	---	---	---	---	---	7.2	---	---	---	---
16	---	---	---	---	---	---	---	7.1	---	---	---	---
17	---	---	---	---	---	---	---	7.2	---	---	---	---
18	---	---	---	---	---	---	---	7.2	---	---	---	---
19	---	---	---	---	---	---	---	7.2	---	---	---	---
20	---	---	---	---	---	---	---	7.2	---	---	---	---
21	---	---	---	---	---	---	---	7.0	---	---	---	---
22	---	---	---	---	---	---	---	7.0	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	7.2	---	---	---	---
26	---	---	---	---	---	---	---	7.2	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MEAN	---	---	---	---	---	---	---	7.2	7.2	---	---	---

Water year October 1977 to September 1978

Table 26.--Average daily pH, in standard units, at site 1 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	6.9	7.0	7.2	7.3	6.9	---	---	6.5
2	---	---	---	---	6.9	7.1	7.3	7.3	7.3	---	---	6.5
3	---	---	---	---	6.9	7.1	7.2	7.2	6.9	---	---	---
4	---	---	---	---	6.9	7.2	7.3	7.3	6.9	---	---	---
5	---	---	---	---	7.0	7.3	7.4	7.2	6.9	---	---	---
6	---	---	---	---	7.0	7.3	7.4	7.3	6.9	---	---	---
7	---	---	---	---	7.0	7.3	7.4	7.3	---	---	---	---
8	---	---	---	---	7.0	7.3	7.4	7.3	---	---	---	---
9	---	---	---	---	7.0	7.4	7.5	---	7.1	---	---	---
10	---	---	---	---	7.1	7.4	7.4	---	7.2	---	---	---
11	---	---	---	---	7.0	---	7.0	7.2	7.2	---	---	---
12	---	---	---	---	6.7	---	7.0	7.3	7.2	---	---	---
13	---	---	---	---	6.8	---	7.1	7.2	7.2	---	---	---
14	---	---	---	---	6.8	---	7.2	7.2	7.2	---	---	---
15	---	---	---	7.0	6.8	---	7.2	7.2	7.2	---	---	---
16	---	---	---	7.1	7.0	---	7.2	7.2	7.2	---	---	---
17	---	7.6	---	6.8	---	---	7.3	7.2	7.2	---	---	---
18	---	7.4	---	6.9	---	7.2	7.2	7.2	7.3	7.1	---	---
19	---	---	---	6.9	---	---	7.2	7.3	7.2	---	---	---
20	---	---	---	6.8	---	---	7.1	7.2	---	---	---	---
21	---	---	---	6.9	---	6.7	7.1	6.9	---	---	---	---
22	---	---	---	6.9	---	6.7	7.1	---	---	---	---	---
23	---	---	---	6.9	7.0	6.7	7.2	6.8	---	---	---	---
24	---	---	---	6.9	7.1	6.7	7.2	6.9	---	---	---	---
25	---	7.1	---	7.0	6.9	6.7	7.2	6.9	---	---	---	---
26	---	6.8	---	6.9	6.9	6.7	7.2	6.9	---	---	---	---
27	---	6.5	---	6.9	6.9	6.8	7.2	---	---	---	---	---
28	---	6.6	---	6.9	7.0	6.9	7.2	---	---	---	---	---
29	---	6.6	---	6.9	---	7.1	7.2	---	---	---	---	---
30	---	6.6	---	6.9	---	7.2	7.2	6.9	---	---	---	---
31	---	---	---	6.9	---	7.3	---	6.9	---	---	---	---
MEAN	---	6.9	---	6.9	6.9	7.1	7.2	7.1	7.1	7.1	---	6.5

Water year October 1978 to September 1979

Table 26.--Average daily pH, in standard units, at site 1 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	6.9	---	---	7.0	7.3	---	7.2	6.7	---	---	---
2	---	---	---	---	6.9	7.4	7.3	6.9	6.7	---	---	---
3	---	---	---	---	6.9	7.3	6.8	6.8	6.7	---	---	---
4	---	---	---	---	7.0	7.4	6.7	6.8	6.7	---	---	---
5	---	---	---	---	7.0	7.4	6.8	6.8	6.8	---	---	---
6	---	---	---	---	7.0	7.4	6.9	6.8	6.8	---	---	---
7	---	---	---	---	7.1	7.4	7.0	6.8	6.8	---	---	---
8	---	---	---	---	6.9	7.3	7.1	6.9	---	---	---	---
9	---	---	---	---	6.9	7.3	7.1	6.9	---	---	---	---
10	---	---	---	---	6.9	7.3	7.1	7.0	---	---	---	---
11	---	---	---	---	6.9	7.2	7.1	7.1	---	---	---	---
12	---	---	---	---	7.0	7.4	7.1	7.1	---	---	---	---
13	---	---	---	---	7.0	7.4	7.2	6.9	---	---	---	---
14	---	---	---	---	7.0	7.4	7.4	7.0	---	---	---	---
15	---	---	---	---	6.9	7.4	7.5	7.0	---	---	---	---
16	---	---	---	---	7.0	7.4	7.4	6.7	---	---	---	---
17	---	---	---	---	7.1	7.4	7.3	6.6	---	---	---	---
18	---	---	---	---	7.0	7.4	7.2	6.6	---	---	---	---
19	---	---	---	---	7.0	7.5	7.3	6.6	---	---	---	---
20	---	---	---	7.3	7.0	---	7.3	6.7	6.7	---	---	---
21	---	---	---	7.2	7.0	---	---	6.7	6.4	---	---	---
22	---	---	---	7.0	7.0	---	---	6.9	6.6	---	---	---
23	---	---	---	6.9	7.0	---	---	6.9	---	---	---	---
24	---	---	---	6.9	7.0	---	---	6.9	---	---	---	---
25	---	---	---	6.9	7.1	---	---	6.9	---	---	---	---
26	---	---	---	6.9	7.1	---	7.2	6.8	---	---	---	---
27	---	---	---	7.0	7.1	---	7.2	6.8	---	---	---	---
28	---	---	---	7.0	7.1	---	7.2	6.8	---	---	---	6.5
29	---	---	---	7.0	7.1	---	7.2	---	---	---	---	6.6
30	---	---	---	7.0	---	---	7.3	---	---	---	---	6.6
31	7.0	---	---	7.0	---	---	---	6.6	---	---	---	---
MEAN	7.0	6.9	---	7.0	7.0	7.4	7.2	6.8	6.7	---	---	6.6

Water year October 1979 to September 1980

Table 26.--Average daily pH, in standard units, at site 1 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	---	7.1	---	7.3	---	7.3	---	6.9	---	---	---
2	---	---	---	---	7.4	6.8	7.2	---	6.9	---	---	---
3	---	---	---	---	7.4	6.7	7.2	---	6.9	7.0	---	---
4	---	---	---	---	7.3	6.9	7.3	---	---	6.8	---	---
5	---	---	7.3	---	---	---	---	---	---	---	---	---
6	---	---	7.2	7.3	---	6.9	7.3	---	---	---	---	---
7	---	---	7.2	7.3	---	7.0	7.3	---	---	---	---	---
8	---	---	7.2	7.4	---	7.1	7.3	---	---	6.9	---	---
9	---	---	6.9	7.4	---	7.1	---	---	6.9	---	---	---
10	---	---	7.0	7.4	---	7.1	---	---	6.9	---	---	---
11	---	---	---	---	---	7.1	---	6.8	7.0	---	---	---
12	---	---	---	---	---	7.1	---	6.8	6.9	---	---	---
13	---	---	---	---	7.3	7.2	---	6.8	7.0	---	---	---
14	---	---	---	---	---	7.2	7.1	6.9	7.0	---	---	---
15	---	---	---	---	---	7.3	---	6.9	6.9	---	---	---
16	---	---	---	7.4	---	7.4	---	6.9	6.7	---	---	---
17	---	6.9	---	7.4	---	7.4	---	6.9	6.7	---	---	---
18	6.7	6.8	---	7.4	---	7.5	---	6.9	6.9	---	---	---
19	---	---	---	7.3	---	7.5	---	7.0	6.9	---	---	---
20	---	---	---	7.3	7.4	7.5	---	7.0	6.8	---	---	---
21	---	---	---	7.4	7.3	7.4	---	7.0	---	---	---	---
22	---	---	---	7.4	---	---	---	7.0	---	---	---	---
23	---	---	---	---	---	---	7.1	---	---	---	---	---
24	---	---	---	---	---	---	7.0	---	---	---	---	---
25	---	---	---	---	---	---	7.0	---	---	---	---	---
26	---	6.9	---	---	---	7.3	---	---	---	---	---	---
27	---	6.9	---	---	7.3	---	---	---	---	---	---	---
28	6.6	6.9	---	---	---	---	---	---	---	---	---	---
29	6.6	7.0	---	---	---	---	6.9	---	---	---	6.6	---
30	6.6	7.0	---	---	---	---	---	---	---	---	---	---
31	---	---	---	7.2	---	---	---	---	---	---	---	---
MEAN	6.6	6.9	7.1	7.4	7.3	7.2	7.2	6.9	6.9	6.9	6.6	---

Water year October 1980 to September 1981

Table 27.--Average daily water temperature, in degrees Celsius, at site 1

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	14.0	---	---	---	---
6	---	---	---	---	---	---	---	15.5	---	---	---	---
7	---	---	---	---	---	---	---	19.0	---	---	---	---
8	---	---	---	---	---	---	---	20.0	23.5	---	---	---
9	---	---	---	---	---	---	---	19.5	23.5	---	---	---
10	---	---	---	---	---	---	---	19.5	23.5	---	---	---
11	---	---	---	---	---	---	---	20.5	25.5	---	---	---
12	---	---	---	---	---	---	---	21.5	26.0	---	---	---
13	---	---	---	---	---	---	---	20.0	25.5	---	---	---
14	---	---	---	---	---	---	---	20.0	---	---	---	---
15	---	---	---	---	---	---	---	21.0	---	---	---	---
16	---	---	---	---	---	---	---	20.0	---	---	---	---
17	---	---	---	---	---	---	---	19.0	---	---	---	---
18	---	---	---	---	---	---	---	21.0	---	---	---	---
19	---	---	---	---	---	---	---	23.5	---	---	---	---
20	---	---	---	---	---	---	---	24.5	---	---	---	---
21	---	---	---	---	---	---	---	23.5	---	---	---	---
22	---	---	---	---	---	---	---	24.5	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	24.0	---	---	---	---
26	---	---	---	---	---	---	---	24.5	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MEAN	---	---	---	---	---	---	---	21.0	24.5	---	---	---

Water year October 1977 to September 1978

Table 27.--Average daily water temperature, in degrees Celsius, at site 1 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	2.0	9.5	18.5	17.5	22.0	---	---	23.5
2	---	---	---	---	2.0	10.5	15.0	19.0	---	---	---	26.0
3	---	---	---	---	2.0	11.0	12.5	18.0	21.5	---	---	---
4	---	---	---	---	2.0	8.5	12.0	15.5	22.5	---	---	---
5	---	---	---	---	2.0	8.5	13.5	16.0	22.5	---	---	---
6	---	---	---	---	1.5	10.5	17.0	18.0	23.0	---	---	---
7	---	---	---	---	1.5	12.5	17.0	20.5	---	---	---	---
8	---	---	---	---	1.5	12.0	18.0	22.5	---	---	---	---
9	---	---	---	---	---	11.5	17.5	---	25.5	---	---	---
10	---	---	---	---	---	11.5	16.0	---	23.5	---	---	---
11	---	---	---	---	2.0	---	17.5	17.5	22.0	---	---	---
12	---	---	---	---	3.5	---	18.0	16.5	22.5	---	---	---
13	---	---	---	---	3.5	---	18.0	17.5	23.0	---	---	---
14	---	---	---	---	7.5	---	18.5	---	23.5	---	---	---
15	---	---	---	1.0	10.0	---	20.0	---	24.5	---	---	---
16	---	---	---	.5	4.5	---	21.0	21.5	24.5	---	---	---
17	---	---	---	.5	---	---	21.0	22.0	24.5	---	---	---
18	---	---	---	1.5	---	14.0	18.0	22.0	24.5	25.0	---	---
19	---	---	---	5.5	---	---	18.0	22.5	---	---	---	---
20	---	---	---	6.5	---	---	20.0	---	---	---	---	---
21	---	---	---	4.5	---	16.0	20.0	20.5	---	---	---	---
22	---	---	---	4.0	---	17.0	19.0	---	---	---	---	---
23	---	---	---	3.5	11.0	14.5	19.0	---	---	---	---	---
24	---	---	---	2.0	5.0	12.0	20.0	20.5	---	---	---	---
25	---	13.5	---	2.0	3.0	13.0	21.5	20.0	---	---	---	---
26	---	14.5	---	1.5	5.5	16.0	19.0	---	---	---	---	---
27	---	11.5	---	1.5	7.0	17.0	17.0	---	---	---	---	---
28	---	9.5	---	1.5	8.5	17.0	16.0	---	---	---	---	---
29	---	9.0	---	1.5	---	17.0	16.5	---	---	---	---	---
30	---	---	---	1.5	---	18.5	18.0	---	---	---	---	---
31	---	---	---	2.0	---	18.0	---	22.0	---	---	---	---
MEAN	---	11.5	---	2.5	4.5	13.5	17.5	19.5	23.5	25.0	---	25.0

Water year October 1978 to September 1979

Table 27.--Average daily water temperature, in degrees Celsius, at site 1 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	12.5	---	---	3.0	5.0	---	17.5	25.0	---	---	---
2	---	---	---	---	3.5	3.5	16.5	17.5	25.5	---	---	---
3	---	---	---	---	4.0	4.5	16.0	18.0	26.0	---	---	---
4	---	---	---	---	4.0	9.0	15.5	19.5	28.0	---	---	---
5	---	---	---	---	5.5	8.0	16.0	19.5	28.0	---	---	---
6	---	---	---	---	6.0	8.0	16.0	20.5	29.0	---	---	---
7	---	---	---	---	5.0	13.5	19.0	20.5	29.5	---	---	---
8	---	---	---	---	2.0	12.5	17.0	18.0	---	---	---	---
9	---	---	---	---	1.0	12.0	16.0	17.5	---	---	---	---
10	---	---	---	---	1.0	13.0	16.0	19.0	---	---	---	---
11	---	---	---	---	1.5	11.0	16.0	23.0	---	---	---	---
12	---	---	---	---	2.5	11.0	12.0	23.5	---	---	---	---
13	---	---	---	---	4.0	11.5	9.5	22.0	---	---	---	---
14	---	---	---	---	7.0	11.5	10.0	21.0	---	---	---	---
15	---	---	---	---	9.0	12.0	13.5	18.5	---	---	---	---
16	---	---	---	---	4.5	15.5	15.0	19.0	---	---	---	---
17	---	---	---	---	3.5	14.0	16.5	21.0	---	---	---	---
18	---	---	---	---	4.0	12.0	15.5	19.5	---	---	---	---
19	---	---	---	---	7.5	12.5	17.5	20.0	---	---	---	---
20	---	---	---	9.5	10.0	---	19.0	20.0	22.5	---	---	---
21	---	---	---	7.5	12.5	---	---	19.5	25.0	---	---	---
22	---	---	---	7.5	12.0	---	---	19.5	25.0	---	---	---
23	---	---	---	6.0	10.5	---	---	20.0	---	---	---	---
24	---	---	---	7.0	9.0	---	---	22.0	---	---	---	---
25	---	---	---	7.5	7.5	---	---	24.5	---	---	---	---
26	---	---	---	6.5	7.0	---	15.0	25.5	---	---	---	---
27	---	---	---	4.0	9.0	---	14.0	25.0	---	---	---	---
28	---	---	---	3.0	12.0	---	15.5	24.5	---	---	---	15.0
29	---	---	---	2.0	10.0	---	17.5	---	---	---	---	16.5
30	---	---	---	2.5	---	---	17.5	---	---	---	---	18.0
31	14.0	---	---	2.5	---	---	---	24.5	---	---	---	---
MEAN	14.0	12.5	---	5.5	6.0	10.5	15.5	20.5	26.5	---	---	16.5

Water year October 1979 to September 1980

Table 27.--Average daily water temperature, in degrees Celsius, at site 1 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.5	---	11.5	---	5.5	---	---	---	---	---	---	---
2	---	---	---	---	3.5	---	18.0	---	23.5	---	---	---
3	---	---	---	---	4.0	12.0	19.0	---	24.0	---	---	---
4	---	---	---	---	5.0	12.0	18.5	---	24.0	25.5	---	---
5	---	---	12.0	---	---	13.5	16.5	---	---	25.5	---	---
6	---	---	14.0	4.0	---	12.5	15.5	---	---	---	---	---
7	---	---	14.5	4.5	---	11.5	16.5	---	---	---	---	---
8	---	---	---	4.5	---	10.0	18.5	---	---	27.0	---	---
9	---	---	6.5	5.5	---	9.0	---	---	27.5	---	---	---
10	---	---	5.0	5.5	---	9.5	---	---	27.0	---	---	---
11	---	---	---	---	---	11.5	---	17.0	26.0	---	---	---
12	---	---	---	---	---	12.5	---	20.0	25.0	---	---	---
13	---	---	---	---	2.5	13.5	---	18.5	24.5	---	---	---
14	---	---	---	---	---	14.5	20.0	17.0	25.0	---	---	---
15	---	---	---	---	---	15.0	---	17.0	26.0	---	---	---
16	---	---	---	4.0	---	15.0	---	16.5	25.0	---	---	---
17	---	6.0	---	3.0	---	14.5	---	19.0	24.0	---	---	---
18	16.5	5.0	---	3.0	---	12.5	---	21.5	25.5	---	---	---
19	---	---	---	4.0	---	11.0	---	18.0	26.5	---	---	---
20	---	---	---	4.5	12.0	11.5	---	17.5	27.0	---	---	---
21	---	---	---	4.5	14.5	13.5	---	17.5	---	---	---	---
22	---	---	---	4.0	---	---	---	19.0	---	---	---	---
23	---	---	---	---	---	---	19.5	---	---	---	---	---
24	---	---	---	---	---	---	19.0	---	---	---	---	---
25	---	---	---	---	---	---	20.5	---	---	---	---	---
26	---	6.0	---	---	---	13.0	---	---	---	---	---	---
27	---	4.5	---	---	16.0	---	---	---	---	---	---	---
28	11.5	5.0	---	---	---	---	---	---	---	---	---	---
29	10.0	6.0	---	---	---	---	---	---	---	---	26.0	---
30	9.5	7.5	---	---	---	---	23.5	---	---	---	---	---
31	---	---	---	5.5	---	---	---	---	---	---	---	---
MEAN	13.5	5.5	10.5	4.5	8.0	12.5	19.0	18.5	25.5	26.0	26.0	---

Water year October 1980 to September 1981

Table 28.--Average daily dissolved oxygen, in milligrams per liter, at site 1 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	14.4	10.5	7.5	7.7	7.2	---	---	6.0
2	---	---	---	---	14.0	10.1	8.5	7.4	---	---	---	3.6
3	---	---	---	---	13.7	9.9	8.8	6.0	7.2	---	---	---
4	---	---	---	---	13.5	11.5	9.5	6.6	6.6	---	---	---
5	---	---	---	---	13.3	12.0	9.5	7.3	6.3	---	---	---
6	---	---	---	---	13.1	11.0	9.0	7.6	6.6	---	---	---
7	---	---	---	---	13.2	10.5	8.4	7.3	---	---	---	---
8	---	---	---	---	13.9	10.2	8.1	7.4	---	---	---	---
9	---	---	---	---	14.0	10.3	8.3	---	5.9	---	---	---
10	---	---	---	---	14.1	10.9	7.7	---	6.2	---	---	---
11	---	---	---	---	13.8	---	7.0	6.2	6.5	---	---	---
12	---	---	---	---	13.6	---	7.3	6.4	6.6	---	---	---
13	---	---	---	---	14.3	---	7.4	6.3	6.5	---	---	---
14	---	---	---	---	12.5	---	7.5	---	6.5	---	---	---
15	---	---	---	12.1	10.8	---	7.3	5.7	6.4	---	---	---
16	---	---	---	11.6	11.5	---	7.4	4.4	6.1	---	---	---
17	---	10.4	---	12.3	---	---	7.4	4.3	6.1	---	---	---
18	---	8.9	---	12.6	---	10.4	7.3	4.3	6.2	3.4	---	---
19	---	---	---	12.2	---	---	7.7	4.4	5.7	---	---	---
20	---	---	---	11.9	---	---	7.4	---	---	---	---	---
21	---	---	---	12.5	---	9.9	6.9	6.2	---	---	---	---
22	---	---	---	13.7	11.3	8.7	6.9	---	---	---	---	---
23	---	---	---	14.0	10.3	7.9	6.7	7.2	---	---	---	---
24	---	---	---	14.6	11.6	8.0	6.8	7.3	---	---	---	---
25	---	7.2	---	14.4	13.1	6.9	6.8	7.1	---	---	---	---
26	---	---	---	13.2	12.1	5.6	6.9	6.9	---	---	---	---
27	---	7.6	---	13.9	11.3	7.1	6.7	---	---	---	---	---
28	---	8.8	---	15.2	10.6	8.8	7.2	---	---	---	---	---
29	---	8.3	---	14.9	---	8.0	7.5	---	---	---	---	---
30	---	7.8	---	14.6	---	8.0	7.5	---	---	---	---	---
31	---	---	---	14.6	---	8.1	---	7.6	---	---	---	---
MEAN	---	8.5	---	13.4	12.8	9.3	7.6	6.4	6.4	3.4	---	4.8

Water year October 1978 to September 1979

Table 28.--Average daily dissolved oxygen, in milligrams per liter, at site 1 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	5.5	---	---	11.2	10.3	---	6.4	5.4	---	---	---
2	---	---	---	---	10.0	12.5	8.4	7.3	3.9	---	---	---
3	---	---	---	---	9.9	11.7	7.2	6.9	4.0	---	---	---
4	---	---	---	---	10.8	10.9	6.2	5.9	2.5	---	---	---
5	---	---	---	---	10.7	10.3	6.4	5.0	2.4	---	---	---
6	---	---	---	---	10.5	10.5	7.2	4.7	2.2	---	---	---
7	---	---	---	---	10.7	9.8	7.4	4.3	1.9	---	---	---
8	---	---	---	---	13.2	8.7	6.8	3.3	---	---	---	---
9	---	---	---	---	14.3	8.9	7.6	5.4	---	---	---	---
10	---	---	---	---	14.1	9.0	7.6	7.0	---	---	---	---
11	---	---	---	---	13.6	8.4	7.5	7.1	---	---	---	---
12	---	---	---	---	13.4	9.7	7.4	6.3	---	---	---	---
13	---	---	---	---	13.1	9.4	8.6	4.5	---	---	---	---
14	---	---	---	---	11.8	9.5	10.6	5.3	---	---	---	---
15	---	---	---	---	10.6	9.2	11.1	6.2	---	---	---	---
16	---	---	---	---	10.7	8.5	9.6	6.7	---	---	---	---
17	---	---	---	---	11.9	8.3	8.7	5.5	---	---	---	---
18	---	---	---	---	11.4	9.1	8.3	6.0	---	---	---	---
19	---	---	---	10.1	11.1	9.2	8.9	7.9	5.9	---	---	---
20	---	---	---	---	10.8	---	8.8	6.9	---	---	---	---
21	---	---	---	11.3	10.1	---	---	6.8	4.4	---	---	---
22	---	---	---	11.1	9.3	---	---	7.2	4.4	---	---	---
23	---	---	---	10.8	8.4	---	---	6.7	---	---	---	---
24	---	---	---	10.3	7.9	---	---	6.2	---	---	---	---
25	---	---	---	9.9	9.1	---	---	5.7	---	---	---	---
26	---	---	---	8.8	9.9	---	6.4	5.0	---	---	---	---
27	---	---	---	9.6	10.1	---	6.5	4.5	---	---	---	---
28	---	---	---	10.8	9.6	---	6.7	4.3	---	---	---	9.2
29	---	---	---	11.9	8.6	---	6.9	---	---	---	---	8.2
30	---	---	---	11.3	---	---	6.8	---	---	---	---	6.5
31	6.0	---	---	11.9	---	---	---	7.2	---	---	---	---
MEAN	6.0	5.5	---	10.7	10.9	9.7	7.8	5.9	3.7	---	---	8.0

Water year October 1979 to September 1980

Table 28.--Average daily dissolved oxygen, in milligrams per liter, at site 1 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	---	---	---	10.3	---	7.1	---	5.9	---	---	---
2	---	---	---	---	11.0	---	6.3	---	5.7	---	---	---
3	---	---	---	---	11.0	7.9	6.0	---	5.2	3.7	---	---
4	---	---	---	---	9.6	7.9	6.7	---	---	2.9	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	10.1	---	7.3	7.2	---	---	---	---	---
7	---	---	---	10.1	---	7.4	7.2	---	---	---	---	---
8	---	---	---	10.3	---	8.5	5.8	---	---	2.7	---	---
9	---	---	11.6	9.8	---	8.8	---	---	5.0	---	---	---
10	---	---	11.6	9.4	---	9.2	---	---	4.7	---	---	---
11	---	---	---	---	---	9.4	---	7.8	4.5	---	---	---
12	---	---	---	---	---	9.8	---	7.5	4.5	---	---	---
13	---	---	---	---	12.0	9.9	---	7.1	4.6	---	---	---
14	---	---	---	---	---	9.5	---	6.9	4.6	---	---	---
15	---	---	---	---	---	8.6	---	6.7	3.4	---	---	---
16	---	---	---	9.9	---	8.4	---	6.9	3.2	---	---	---
17	---	6.7	---	10.1	---	8.4	---	7.1	2.5	---	---	---
18	5.6	6.4	---	9.8	---	8.7	---	6.4	3.4	---	---	---
19	---	---	---	9.1	---	10.1	---	6.4	3.1	---	---	---
20	---	---	---	8.6	8.7	10.0	---	6.8	3.0	---	---	---
21	---	---	---	8.7	8.0	9.3	---	6.7	---	---	---	---
22	---	---	---	8.8	---	---	---	6.6	---	---	---	---
23	---	---	---	---	---	---	5.5	---	---	---	---	---
24	---	---	---	---	---	---	4.5	---	---	---	---	---
25	---	---	---	---	---	---	4.0	---	---	---	---	---
26	---	---	---	---	---	8.8	---	---	---	---	---	---
27	---	---	---	---	7.3	---	---	---	---	---	---	---
28	7.2	---	---	---	---	---	---	---	---	---	---	---
29	7.4	---	---	---	---	---	---	---	---	---	5.6	---
30	7.0	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	10.3	---	---	---	---	---	---	---	---
MEAN	6.5	6.6	11.6	9.6	9.7	8.9	6.0	6.9	4.2	3.1	5.6	---

Water year October 1980 to September 1981

Table 29.--Quality of water data, at site 5

[CFS, cubic feet per second; UMHOS, micromhos per centimeter at 25°Celsius; DEG C, degrees Celsius; NTU, nephelometric turbidity units; MG/L, milligrams per liter; AC-FT, acre-feet; UG/L, micrograms per liter]

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPE-CLIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PERCENT SATURATION)	NITROGEN-DIS-SOLVED (MG/L AS N)	HARDNESS (MG/L AS CAC03)	HARDNESS-NONCARBONATE (MG/L CAC03)
JUN , 1978												
14...	1345	0.01	310	7.4	26.5	--	70	7.9	--	--	--	--
NOV												
26...	1215	4.0	85	6.5	14.5	160	80	--	--	--	20	4
FEB , 1979												
24...	0920	5.9	115	7.1	7.5	150	66	--	--	1.7	37	18
28...												
MAR												
22...	1030	60	--	--	--	--	--	--	--	--	--	--
APR												
18...	1145	5.9	--	--	--	--	--	--	--	--	--	--
JAN , 1980												
21...	1615	1.3	--	--	7.0	--	--	--	--	--	--	--
APR												
25...	1900	.42	--	--	15.0	--	--	--	--	--	--	--
MAY												
02...	1725	2.2	--	--	18.5	--	--	--	--	--	--	--
15...	1520	6.6	--	--	--	--	--	--	--	--	--	--
19...	0304	10	--	--	--	--	--	--	--	--	--	--
30...	0200	>100	--	--	--	--	--	--	--	--	--	--
SEP												
28...	1428	1.6	55	6.8	16.0	100	24	--	--	2.1	18	5
29...	1150	1.6	--	--	--	--	--	--	--	--	--	--
MAR , 1981												
03...	1720	3.8	--	--	--	--	--	--	--	--	--	--
04...	0220	28	--	--	--	--	--	--	--	--	--	--
MAY												
11...	1215	.90	125	6.8	17.0	90	24	--	--	1.3	41	--
NOV												
10...	0900	3.6	112	7.0	10.0	80	16	10.0	87	.92	36	--

Table 29.--Quality of water data, at site 5 --Continued

[CFS, cubic feet per second; UMHOS, micromhos per centimeter at 25° Celsius; DMG C, degrees Celsius; NTU, nephelometric turbidity units; MG/L, milligrams per liter; AC-FT, acre-feet; UG/L, micrograms per liter]

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY FIELD (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
JUN , 1978												
14....	--	--	--	--	--	--	--	--	--	--	--	180
NOV												
26....	4.6	2.1	4.3	28	0.4	3.5	16	11	4.4	0.1	8.2	61
FEB , 1979												
24....	9.3	3.3	6.3	25	.5	2.7	19	17	7.1	.1	8.0	81
28....												
MAR												
22....	--	--	--	--	--	--	--	--	--	--	--	--
APR												
18....	--	--	--	--	--	--	--	--	--	--	--	--
JAN , 1980												
21....	--	--	--	--	--	--	--	--	--	--	--	--
APR												
25....	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
02....	--	--	--	--	--	--	--	--	--	--	--	--
15....	--	--	--	--	--	--	--	--	--	--	--	--
19....	--	--	--	--	--	--	--	--	--	--	--	--
30....	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
28....	4.2	1.8	2.7	21	.3	3.4	13	4.7	3.3	.1	6.2	54
29....	--	--	--	--	--	--	--	--	--	--	--	--
MAR , 1981												
03....	--	--	--	--	--	--	--	--	--	--	--	--
04....	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
11....	9.7	4.1	8.5	29	.6	2.6	--	4.3	7.4	.1	10	94
NOV												
10....	8.5	3.6	5.7	24	.4	2.9	--	7.0	7.6	.1	11	91

Table 29.--Quality of water data, at site 5 --Continued

[CFS, cubic feet per second; UMH05, micromhos per centimeter at 25°Celsius; DEG C, degrees Celsius; NTU, nephelometric turbidity units; MG/L, milligrams per liter; AC-FT, acre-feet; UG/L, micrograms per liter]

DATE	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN ORGANIC TOTAL (MG/L AS N)	NITRO- GEN ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)
JUN , 1978											
14...	--	0.24	--	--	--	--	--	--	--	--	--
NOV											
26...	49	.08	0.66	0.28	0.08	0.02	0.03	0.03	1.3	0.96	1.40
FEB , 1979											
24...	--										
28...	66	.11	1.3	.95	.04	.02	.03	.03	.96	.70	1.00
MAR											
22...	--										
APR											
18...	--										
JAN , 1980											
21...	--										
APR											
25...	--										
MAY											
02...	--										
15...	--										
19...	--										
30...	--										
SEP											
28...	35	.07	.23	.92	.02	.00	.02	.00	1.3	1.2	1.30
29...	--										
MAR , 1981											
03...	--										
04...	--										
MAY											
11...	71	.13	.23	.25	.24	.21	.27	.27	.75	.79	.99
NOV											
10...	64	.12	.88	<.09	.07	.10	.13	.13	.77	.65	.84

Table 29.--Quality of water data, at site 5 --Continued

[CFS, cubic feet per second; UMHOS, micromhos per centimeter at 25°Celsius; DEG C, degrees Celsius; NTU, nephelometric turbidity units; MG/L, milligrams per liter; AC-FT, acre-feet; UG/L, micrograms per liter]

DATE	NITRO- GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N03)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDE RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)
JUN , 1978	--	--	--	--	--	--	--	2000	--	--	3	--
NOV 14...	--	--	--	--	--	--	--	2900	2800	150	1	--
FEB , 1979	--	0.98	1.7	7.4	0.20	--	0.11	2900	2800	150	1	--
NOV 26...	--	--	--	--	--	--	--	1300	1200	60	--	--
FEB 24...	--	.72	2.0	8.6	.09	--	.07	1300	1200	60	1	--
MAR 28...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 22...	--	--	--	--	--	--	--	--	--	--	--	--
APR 18...	--	--	--	--	--	--	--	--	--	--	--	--
JAN , 1980	--	--	--	--	--	--	--	--	--	--	--	--
APR 21...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 25...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 02...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 15...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 19...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 30...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 28...	0.10	1.2	2.2	9.8	.11	0.34	.07	450	370	80	2	0
SEP 29...	--	--	--	--	--	--	--	--	--	--	--	--
MAR , 1981	--	--	--	--	--	--	--	--	--	--	--	--
MAR 03...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 04...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 11...	.00	1.0	1.2	5.5	.08	.25	.10	630	590	40	2	0
NOV 10...	.09	.75	--	--	.07	.21	.07	700	670	30	1	0

Table 29.--Quality of water data, at site 5 --Continued

[CFS, cubic feet per second; UMHOS, micromhos per centimeter at 25° Celsius; DEG C, degrees Celsius; NTU, nephelometric turbidity units; MG/L, milligrams per liter; AC-FT, acre-feet; UG/L, micrograms per liter]

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	BORON, SUS- PENDE RECOV- ERABLE (UG/L AS B)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDE RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)
JUN , 1978	--	--	--	--	11	--	15	--	--	8	--	--
14....												
NOV												
26....	1	120	50	70	ND	<2	ND	--	ND	6	--	ND
FEB , 1979												
24....	--	--	--	--	--	--	--	--	--	--	--	--
28....	<1	90	20	70	ND	ND	ND	--	ND	8	--	2
MAR												
22....	--	--	--	--	--	--	--	--	--	--	--	--
APR												
18....	--	--	--	--	--	--	--	--	--	--	--	--
JAN , 1980												
21....	--	--	--	--	--	--	--	--	--	--	--	--
APR												
25....	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
02....	--	--	--	--	--	--	--	--	--	--	--	--
15....	--	--	--	--	--	--	--	--	--	--	--	--
19....	--	--	--	--	--	--	--	--	--	--	--	--
30....	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
28....	2	40	0	40	0	<1	10	0	20	30	24	6
29....	--	--	--	--	--	--	--	--	--	--	--	--
MAR , 1981												
03....	--	--	--	--	--	--	--	--	--	--	--	--
04....	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
11....	2	220	190	30	0	<1	10	10	0	50	42	8
NOV												
10....	1	200	180	20	<30	<1	<10	--	<10	170	160	7

Table 29.--Quality of water data, at site 5 --Continued

[CFS, cubic feet per second; UMHOS, micromhos per centimeter at 25° Celsius; DEG C, degrees Celsius; NTU, nephelometric turbidity units; MG/L, milligrams per liter; AC-FT, acre-feet; UG/L, micrograms per liter]

DATE	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOVERABLE (UG/L AS MN)	MANGANESE, DIS-SOLVED (UG/L AS MN)	MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	MERCURY, SUSPENDED RECOVERABLE (UG/L AS HG)	MERCURY, DIS-SOLVED (UG/L AS HG)
JUN , 14... 1978	<10	--	--	ND	--	--	1900	--	--	<0.1	--	--
NOV 26... 1978	3700	3100	620	4	--	ND	160	70	90	<.1	--	<0.1
FEB , 24... 1979	1500	1200	260	20	--	ND	60	20	40	<.1	--	<.1
MAR 22... 1979	--	--	--	--	--	--	--	--	--	--	--	--
APR 18... 1979	--	--	--	--	--	--	--	--	--	--	--	--
JAN , 21... 1980	--	--	--	--	--	--	--	--	--	--	--	--
APR 25... 1980	--	--	--	--	--	--	--	--	--	--	--	--
MAY 02... 1980	--	--	--	--	--	--	--	--	--	--	--	--
MAY 15... 1980	--	--	--	--	--	--	--	--	--	--	--	--
MAY 19... 1980	--	--	--	--	--	--	--	--	--	--	--	--
MAY 30... 1980	--	--	--	--	--	--	--	--	--	--	--	--
SEP 28... 1980	2200	2000	200	0	0	8	60	50	10	.1	.1	.0
SEP 29... 1980	--	--	--	--	--	--	--	--	--	--	--	--
MAR , 03... 1981	--	--	--	--	--	--	--	--	--	--	--	--
MAR 04... 1981	--	--	--	--	--	--	--	--	--	--	--	--
MAY 11... 1981	2700	2000	660	0	0	4	240	10	230	.2	.2	.0
NOV 10... 1981	1800	1500	270	<100	--	<1	150	20	130	.1	--	<.1

Table 29.--Quality of water data, at site 5 --Continued

[CFS, cubic feet per second; UMHOS, micromhos per centimeter at 25° Celsius; DEG C, degrees Celsius; NTU, nephelometric turbidity units; MG/L, milligrams per liter; AC-FT, acre-feet; UG/L, micrograms per liter]

DATE	MOLYB- DENIUM, TOTAL RECOV- ERABLE (UG/L AS MO)	MOLYB- DENIUM, DIS- SOLVED (UG/L AS MO)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JUN , 1978											
14....	4	--	1	--	30	--	--	--	--	--	--
NOV											
26....	<1	<1	3	--	20	--	<3	--	--	117	99
FEB , 1979											
24....	--	--	<1	--	20	--	--	--	--	211	82
28....	<1	<1	<1	--	20	--	--	--	--	68	86
MAR											
22....	--	--	--	--	--	--	--	--	--	396	68
APR											
18....	--	--	--	--	--	--	--	--	--	272	93
JAN , 1980											
21....	--	--	--	--	--	--	--	--	--	169	97
APR											
25....	--	--	--	--	--	--	--	--	--	400	83
MAY											
02....	--	--	--	--	--	--	--	--	--	65	86
15....	--	--	--	--	--	--	--	--	--	114	91
19....	--	--	--	--	--	--	--	--	--	98	68
30....	--	--	--	--	--	--	--	--	--	912	71
SEP											
28....	1	<10	0	0	30	20	10	13	1.5	92	91
29....	--	--	--	--	--	--	--	--	--	30	87
MAR , 1981											
03....	--	--	--	--	--	--	--	--	--	244	96
04....	--	--	--	--	--	--	--	--	--	89	82
MAY											
11....	2	<10	0	0	10	0	30	8.4	1.7	29	90
NOV											
10....	2	<10	<1	<1	30	20	7	--	--	11	98

Table 30.--Quality of water data, at site 18

[CFS, cubic feet per second; UMHOS, micromhos per centimeter at 25°Celsius; DEG C, degrees Celsius; NTU, nephelometric turbidity units; MG/L, milligrams per liter; AC-FT, acre-feet; UG/L, micrograms per liter]

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPL- CLIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	NITRO- GEN DIS- SOLVED (MG/L AS N)	HARD- NESS (MG/L AS CACO3)
JUN , 1978	1420	0.01	290	7.4	25.0	--	5.1	7.5	--	--	83
NOV 14...											
NOV 26...	1315	.99	140	6.8	15.0	240	96	--	--	--	40
FEB , 1979	1040	2.3	115	7.5	8.0	140	39	--	--	1.7	37
MAR 28...											
MAR 22...	1056	38	--	--	--	--	--	--	--	--	--
APR 18...	1320	4.2	--	--	--	--	--	--	--	--	--
JAN , 1980	1655	.79	--	--	8.0	--	--	--	--	--	--
JAN 21...											
APR 02...	2159	25	128	7.2	15.5	160	460	--	--	1.5	49
APR 25...	1955	4.5									
MAY 15...	1558	5.0	--	--	--	--	--	--	--	--	--
SEP 28...	1520	5.0	77	6.9	16.0	100	20	--	--	2.9	25
SEP 29...	1245	.30	--	--	--	--	--	--	--	--	--
MAR , 1981	1755	8.2	--	--	--	--	--	--	--	--	--
MAR 03...	0240	14	--	--	--	--	--	--	--	--	--
MAY 11...	1920	.12	134	7.0	18.0	60	18	--	--	1.1	48
AUG 28...	1515	.05	--	--	--	--	--	--	--	--	--
NOV 10...	1000	2.5	108	7.1	10.5	60	18	10.0	87	.85	36

Table 30.--Quality of water data, at site 18 --Continued

[CFS, cubic feet per second; UMHOS, micromhos per centimeter at 25°Celsius; DEG C, degrees Celsius; NTU, nephelometric turbidity units; MG/L, milligrams per liter; AC-FT, acre-feet; UG/L, micrograms per liter]

DATE	HARD- NESS NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (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)
JUN , 1978											
14....	0	18	9.2	26	40	1.3	2.5	110	19	11	0.1
NOV											
26....	8	8.7	4.5	5.9	21	.4	5.7	32	19	6.7	.1
FEB , 1979											
28....	17	8.4	3.8	6.6	27	.5	2.4	20	16	6.4	.1
MAR											
22....	--	--	--	--	--	--	--	--	--	--	--
APR											
18....	--	--	--	--	--	--	--	--	--	--	--
JAN , 1980											
21....	--	--	--	--	--	--	--	--	--	--	--
APR											
02....	--	--	5.2	5.1	17	.3	3.1	34	17	5.0	.2
25....	15	11									
MAY											
15....	--	--	--	--	--	--	--	--	--	--	--
SEP											
28....	4	5.5	2.7	3.6	21	.3	4.2	21	12	3.8	.1
29....	--	--	--	--	--	--	--	--	--	--	--
MAR , 1981											
03....	--	--	--	--	--	--	--	--	--	--	--
04....	--	--	--	--	--	--	--	--	--	--	--
MAY											
11....	--	11	5.0	8.4	26	.5	2.7	--	4.2	12	.1
AUG											
28....	--	--	--	--	--	--	--	--	--	--	--
NOV											
10....	--	7.9	3.9	4.8	21	.4	2.7	--	6.0	8.3	.1

Table 30.--Quality of water data, at site 18 --Continued

[CFS, cubic feet per second; UMH05, micromhos per centimeter at 25° Celsius; DEG C, degrees Celsius; NTU, nephelometric turbidity units; MG/L, milligrams per liter; AC-FT, acre-feet; UG/L, micrograms per liter]

DATE	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+N03 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
JUN , 1978											
14...	15	157	167	0.21	0.00	--	--	--	--	--	--
NOV											
26...	8.4	109	79	.15	.29	--	--	0.02	0.03	0.08	<0.01
FEB , 1979											
28...	7.9	93	64	.13	.58	--	--	1.2	1.2	.03	<.01
MAR											
22...	--	--	--	--	--	--	--	--	--	--	--
APR											
18...	--	--	--	--	--	--	--	--	--	--	--
JAN , 1980											
21...	--	--	--	--	--	--	--	--	--	--	--
APR											
02...	6.2	88	74	.12	1.1	--	--	.41	.44	.16	.04
25...											
MAY											
15...	--	--	--	--	--	--	--	--	--	--	--
SEP											
28...	6.5	71	52	.10	.96	--	--	1.7	1.7	.02	.00
29...	--	--	--	--	--	--	--	--	--	--	--
MAR , 1981											
03...	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--
MAY											
11...	12	104	82	.14	.03	0.46	0.10	.47	.12	.25	.18
AUG											
28...	--	--	--	--	--	--	--	--	--	--	--
NOV											
10...	11	95	62	.13	.64	--	--	.13	.14	<.06	.08

Table 30.--Quality of water data, at site 18 --Continued

[CFS, cubic feet per second; UMHOS, micromhos per centimeter at 25°Celsius; DEG C, degrees Celsius; NIU, nephelometric turbidity units; MG/L, milligrams per liter; AC-FT, acre-feet; UG/L, micrograms per liter]

DATE	NITRO- GEN AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN ORGANIC TOTAL (MG/L AS N)	NITRO- GEN ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL, (MG/L AS N)	NITRO- GEN, TOTAL, (MG/L AS N)	NITRO- GEN, TOTAL, (MG/L AS N03)	PHOS- PHORUS, TOTAL, (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS P04)
JUN , 1978	--	--	--	--	--	--	--	--	--	--	0.03	--
NOV 14...	--	--	--	--	--	--	--	--	--	--	--	--
NOV 26...	--	0.00	1.3	0.82	1.40	--	0.82	1.4	6.3	6.3	.24	--
FEB , 1979	--	.00	.66	.45	.69	--	.45	1.9	8.4	8.4	.08	--
MAR 28...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 22...	--	--	--	--	--	--	--	--	--	--	--	--
APR 18...	--	--	--	--	--	--	--	--	--	--	--	--
JAN , 1980	--	--	--	--	--	--	--	--	--	--	--	--
JAN 21...	--	--	--	--	--	--	--	--	--	--	--	--
APR 02...	.19	.05	2.0	1.1	2.20	1.1	1.1	2.6	12	12	.67	2.1
MAY 25...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 15...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 28...	.02	.00	1.8	1.2	1.80	.60	1.2	3.5	15	15	.12	.37
SEP 29...	--	--	--	--	--	--	--	--	--	--	--	--
MAR , 1981	--	--	--	--	--	--	--	--	--	--	--	--
MAR 03...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 04...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 11...	--	.23	.73	.81	.98	.00	.99	1.5	6.4	6.4	.08	.25
AUG 28...	--	--	--	--	--	--	--	--	--	--	--	--
NOV 10...	--	.10	--	.63	.80	.09	.71	.93	4.1	4.1	.07	.21

Table 30.--Quality of water data, at site 18 --Continued

DATE	CADMIUM		CHROMIUM		COPPER		COPPER		COPPER		IRON		IRON	
	SUS- RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDED RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)			
JUN , 1978	--	ND	5	--	5	6	--	ND	1700	1600	60			
14...	--	<2	ND	--	ND	8	--	3	4100	4000	140			
NOV 26... 1979	--	<2	ND	--	ND	4	--	<2	1500	1200	340			
FEB , 28...	--	--	--	--	--	--	--	--	--	--	--			
MAR 22...	--	--	--	--	--	--	--	--	--	--	--			
APR 18...	--	--	--	--	--	--	--	--	--	--	--			
JAN , 21... 1980	--	--	--	--	--	--	--	--	--	--	--			
APR 02...	--	--	30	20	10	1	--	6	12000	12000	230			
25...	8	2	--	--	--	--	--	--	--	--	--			
MAY 15...	--	--	--	--	--	--	--	--	--	--	--			
SEP 28...	--	<1	20	0	30	10	5	5	1400	670	730			
MAR , 03... 1981	--	--	--	--	--	--	--	--	--	--	--			
04...	--	--	--	--	--	--	--	--	--	--	--			
MAY 11...	--	<1	0	0	10	50	46	4	1600	1300	310			
AUG 28...	--	--	--	--	--	--	--	--	--	--	--			
NOV 10...	--	<1	<10	--	<10	170	170	3	1300	1100	210			

[CFS, cubic feet per second; UMH0S, micromhos per centimeter at 25°Celsius; DEG C, degrees Celsius; NTU, nephelometric turbidity units; MG/L, milligrams per liter; AC-FT, acre-feet; UG/L, micrograms per liter]

Table 30.--Quality of water data, at site 18 --Continued

[CFS, cubic feet per second; UMHOS, micromhos per centimeter at 25° Celsius; DEG C, degrees Celsius; NTU, nephelometric turbidity units; MG/L, milligrams per liter; AC-FI, acre-feet; UG/L, micrograms per liter]		LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)		LEAD, DIS- SOLVED (UG/L AS PB)		MANGA- NESE, SUS- PENDED RECOV- ERABLE (UG/L AS MN)		MANGA- NESE, DIS- SOLVED (UG/L AS MN)		MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)		MERCURY DIS- SOLVED (UG/L AS HG)		MOLYB- DENUM, SUS- PENDED RECOV- ERABLE (UG/L AS MO)	
DATE	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	MOLYB- DENUM, SUS- PENDED RECOV- ERABLE (UG/L AS MO)			
JUN , 1978	ND	ND	--	ND	670	80	590	<0.1	--	<0.1	4	--			
NOV 14....	ND	ND	--	ND	280	80	200	<.1	--	<.1	<1	--			
FEB , 1979	4	4	--	ND	70	30	40	<.1	--	<.1	<1	--			
MAR 28....	--	--	--	--	--	--	--	--	--	--	--	--			
APR 22....	--	--	--	--	--	--	--	--	--	--	--	--			
MAY 18....	--	--	--	--	--	--	--	--	--	--	--	--			
JAN , 1980	--	--	--	--	--	--	--	--	--	--	--	--			
APR 21....	--	--	--	--	--	--	--	--	--	--	--	--			
APR 02....	0	3	--	3	460	290	170	.2	.2	.0	0	--			
MAY 25....	--	--	--	--	--	--	--	--	--	--	--	--			
MAY 15....	--	--	--	--	--	--	--	--	--	--	--	--			
SEP 28....	0	5	--	5	50	10	40	.1	.1	.0	1	--			
SEP 29....	--	--	--	--	--	--	--	--	--	--	--	--			
MAR , 1981	--	--	--	--	--	--	--	--	--	--	--	--			
MAR 03....	--	--	--	--	--	--	--	--	--	--	--	--			
MAY 04....	--	--	--	--	--	--	--	--	--	--	--	--			
MAY 11....	0	3	--	3	170	10	160	.0	.0	.0	2	--			
AUG 28....	--	--	--	--	--	--	--	--	--	--	--	--			
NOV 10....	<100	2	--	2	60	10	50	.1	--	<.1	2	0			

Table 30.--Quality of water data, at site 18 --Continued

[CFS, cubic feet per second; UMHOS, micromhos per centimeter at 25°Celsius; DEG.C, degrees Celsius; NTU, nephelometric turbidity units; MG/L, milligrams per liter; AC-FT, acre-feet; UG/L, micrograms per liter]

DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	SELLE- NIUM, TOTAL (UG/L AS SE)	SELLE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL, RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE- RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON ORGANIC DIS- SOLVED (MG/L AS C)	CARBON ORGANIC SUS- PENDE- TOTAL (MG/L AS C)	SEDI- MENT, SUS- PENDE- (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JUN , 1978										
14....	1	<1	<1	20	--	5	--	--	--	--
NOV										
26....	<1	2	<1	20	--	<3	--	--	109	91
FEB , 1979										
28....	<1	<1	<1	20	--	ND	--	--	43	93
MAR										
22....	--	--	--	--	--	--	--	--	401	57
APR										
18....	--	--	--	--	--	--	--	--	91	78
JAN , 1980										
21....	--	--	--	--	--	--	--	--	57	96
APR										
02....	--	1	--	80	--	10	--	--	831	90
25....	<10	1	0	70	--	10	--	--	274	96
MAY										
15....	--	--	--	--	--	--	--	--	144	97
SEPT										
28....	<10	0	0	40	30	9	14	1.2	40	91
29....	--	--	--	--	--	--	--	--	52	77
MAR , 1981										
03....	--	--	--	--	--	--	--	--	108	91
04....	--	--	--	--	--	--	--	--	71	84
MAY										
11....	<10	0	0	10	3	7	8.8	1.0	21	91
AUG										
28....	--	--	--	--	--	--	--	--	25	94
NOV										
10....	<10	<1	<1	20	--	<3	--	--	10	96

Table 31.--Daily suspended-sediment discharge, in tons per day, at site 1

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.01	1.4	0.70	0.01	0.13	0.00	0.00	3.6
2	.00	.00	.00	.00	.01	.56	.28	.01	7.6	.00	.00	.04
3	.00	.00	.00	.00	.01	9.8	.10	.02	.66	.00	.00	.00
4	.00	.00	.00	.00	.01	1.3	.14	.04	.18	.00	.00	.00
5	.00	.00	.00	.00	.01	.25	.10	.04	117	.00	.00	.00
6	.00	.00	.00	.00	.01	.14	.04	.03	9.1	.00	.00	.00
7	.00	.00	.00	.00	.02	.04	.03	.02	.50	.00	.00	.00
8	.00	.00	.00	.00	.02	.02	.02	.01	.17	.00	.00	.00
9	.00	.00	.00	.00	.01	.01	.02	.01	.09	.00	.00	.00
10	.00	.00	.00	.00	.02	.01	.23	.00	.06	.00	.00	.00
11	.00	.00	.00	.00	3.7	.01	61	.16	.03	.00	.00	.00
12	.00	.00	.00	.00	1.4	.00	.76	.18	.01	.00	.00	.00
13	.00	.00	.00	.00	.21	.00	.20	.05	.01	.00	.00	.00
14	.00	.00	.00	.00	.10	.00	.11	.02	.01	.00	.00	.00
15	.00	.00	.00	.04	.07	.00	.06	.01	.00	.00	.00	.00
16	.00	1.4	.00	.05	.02	.00	.03	.01	.00	.00	.00	.00
17	.00	.01	.00	1.1	.01	.00	.02	.01	.00	.42	.00	.00
18	.00	.00	.00	1.4	.01	.03	.02	.00	.00	.10	.00	.00
19	.00	.00	.00	7.6	.00	1680	.39	.00	.00	.00	.00	.00
20	.00	.00	.00	.98	.00	46	.14	.00	.00	.00	.00	.00
21	.00	.00	.00	.18	.00	2.7	.08	.48	.00	.00	.00	.00
22	.00	.00	.00	.04	.02	57	.05	323	.00	.00	.00	.00
23	.00	.00	.00	.02	.10	1.8	.05	3.8	.00	.00	.00	.00
24	.00	.00	.00	.01	7.9	.70	.04	.38	.00	.00	.00	.00
25	.00	.02	.00	.01	2.8	.39	.03	.14	.00	.00	.00	.00
26	.00	5.9	.00	1.3	2.0	.40	.02	.07	.00	.00	.00	.00
27	.00	.05	.00	.38	1.2	.16	.02	.06	.00	.00	.00	.00
28	.00	.01	.00	.06	3.9	.09	.01	159	.00	.00	.00	.00
29	.00	.00	.00	.02	---	.11	.01	35	.00	.00	.00	.00
30	.00	.00	.00	.01	---	.43	.01	1.1	.00	.00	.00	.00
31	.00	---	.00	.01	---	.26	---	.44	---	.00	.38	---
TOTAL	.00	7.37	.00	13.21	23.57	1803.61	65.89	571.62	135.55	.52	38	3.64

Water year October 1978 to September 1979

Table 31.--Daily suspended-sediment discharge, in tons per day, at site 1 --Continued

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	1.8	0.22	0.00	0.00	0.00
2	.00	.00	.00	.00	.00	.00	.12	26	.09	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	5.3	.65	.06	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.14	.07	.02	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.02	.02	.02	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.01	.02	.01	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.02	.01	.00	.00	.00
8	.00	.00	.00	.00	9.6	.00	.00	.01	.01	.00	.00	.00
9	.00	.00	.00	.00	1.1	.00	.00	.01	.01	.00	.00	.00
10	.00	.00	.00	.00	.27	.00	.00	.01	.00	.00	.00	.00
11	.00	.00	.00	.00	.25	.00	.00	.01	.00	.00	.00	.00
12	.00	.00	.00	.00	.25	.00	.00	.01	.00	.00	.00	.00
13	.00	.00	.00	.00	.04	.00	.00	.01	.00	.00	.00	.00
14	.00	.00	.00	.00	.03	.00	.00	.01	.00	.00	.00	.00
15	.00	.00	.00	.00	.02	.00	.00	4.8	.00	.00	.00	.00
16	.00	.00	.00	.00	.01	.00	.00	1.4	.00	.00	.00	.00
17	.00	.00	.00	.00	.01	.00	.00	.22	.00	.00	.00	.00
18	.00	.00	.00	.00	.01	.00	.00	261	.00	.00	.00	.00
19	.00	.00	.00	.00	.01	.00	.00	16	.00	.00	.00	.00
20	.00	.00	.00	.01	.01	.00	.00	.37	20	.00	.00	.00
21	.00	.00	.00	2.3	.01	.00	.00	.44	.21	.00	.00	.00
22	.00	.00	.00	.40	.00	.00	.00	.49	.03	.00	.00	.00
23	.00	.00	.00	.08	.00	.00	.00	.17	.01	.00	.00	.00
24	.00	.00	.00	.02	.00	.00	.00	.11	.01	.00	.00	.00
25	.00	.00	.00	.02	.00	.00	.20	.06	.00	.00	.00	.00
26	.00	.00	.00	.01	.00	.00	.80	.05	.00	.00	.00	.00
27	.00	.00	.00	.01	.00	.00	.14	.03	.00	.00	.00	.65
28	.00	.00	.00	.00	.00	.00	.04	.02	.00	.00	.00	111
29	.00	.00	.00	.00	.00	.00	.02	.630	.00	.00	.00	2.2
30	.01	.00	.00	.00	---	.00	.22	511	.00	.00	.00	.08
31	.00	---	.00	.00	---	.00	---	1.6	---	.00	.00	---
TOTAL	0.01	.00	.00	2.85	11.62	.00	7.01	1456.41	20.71	.00	.00	178.28

Water year October 1979 to September 1980

Table 31.--Daily suspended-sediment discharge, in tons per day, at site 1 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.02	0.01	0.00	0.00	0.00	4.0	0.01	0.02	0.09	0.00	0.00	0.00
2	.00	.01	.00	.00	.00	.31	.01	.01	7.6	.00	.00	.00
3	.00	.00	.00	.00	.00	160	.01	.00	10	.02	.00	.00
4	.00	.00	.00	.00	.00	38	.02	.00	1.4	.66	.00	.00
5	.00	.00	.00	.00	.00	.52	.02	.00	35	.08	.00	.00
6	.00	.00	.00	.00	.00	.14	.01	.00	4.7	.01	.00	.00
7	.00	.00	.01	.00	.00	.09	.01	.00	.62	.10	.00	.00
8	.00	.00	173	.00	.00	.12	.00	.00	.23	.04	.00	.00
9	.00	.00	2.2	.00	.02	.09	.00	174	.12	.01	.00	.00
10	.00	.00	.27	.00	.38	.08	.00	8.4	.06	.01	.00	.00
11	.00	.00	.09	.00	.03	.06	.00	.44	.04	.00	.00	.00
12	.00	.00	.05	.00	.01	.05	.00	.13	.02	.00	.00	.00
13	.00	.00	.03	.00	.01	.04	.00	.06	.02	.00	.00	.00
14	.00	.00	.02	.00	.01	.04	.00	.04	.02	.00	.00	.00
15	.00	.00	.01	.00	.01	.04	.00	.03	4.2	.00	.00	.00
16	.00	.00	.01	.00	.01	.03	.00	.02	12	.00	.00	.00
17	.02	.07	.01	.00	.01	.02	.00	.02	.22	.00	.02	.00
18	.00	.17	.01	.00	.01	.02	.01	.02	.06	.00	.00	.00
19	.00	.02	.01	.00	.01	.02	.04	.01	.02	.00	.00	.00
20	.00	.01	.01	.00	.01	.01	.05	.01	.01	.00	.00	.00
21	.00	.01	.01	.01	.01	.01	.03	.01	.00	.00	.00	.00
22	.00	.01	.01	.02	.00	.01	.43	.00	.00	.00	.00	.00
23	.00	.00	.00	.01	.00	.01	2.2	7.2	.00	.00	.00	.00
24	.00	.00	.00	.01	.00	.01	.21	44	.00	.00	.00	.00
25	.00	.00	.00	.01	.00	.01	.06	.58	.00	.00	.00	.00
26	.00	.00	.00	.01	.00	.01	.02	.22	.00	.00	.02	.00
27	.39	.00	.00	.00	.00	.01	.01	.10	.00	.00	77	.00
28	.31	.00	.00	.00	307	.01	.01	.04	.00	.24	.36	.01
29	.06	.00	.00	.00	.00	.16	.03	.04	.00	.03	.06	.00
30	.02	.00	.00	.01	.00	.05	.05	1.6	.00	.01	.01	.00
31	.02	.00	.00	.00	.00	.02	.00	.30	.00	.00	.00	.00
TOTAL	39.45	0.31	175.75	0.08	307.53	203.99	3.24	237.30	76.43	1.21	77.47	0.01

Water year October 1980 to September 1981

Table 32.--Records of wells and springs

[W, well; S, spring; A, taped-better than 1 ft; G, reported; ft, feet; gpm, gallons per minute; F, flowing; Aquifer: Pm, McAlester Formation, Ph, Hartshorne Sandstone, Ps, Savanna Formation; Pb, Boggy Formation; Pa, Atoka Formation; mo-yr, month, year; 0, chemical analysis in Table 35; P, physical properties in Table 35; M, water-level data in Table 34; L, water-level data in Table 33]

Site location	Site type	Well depth (ft)	Well diameter (inches)	Depth to water (ft)	Well or spring discharge (gpm)	Aquifer	Date measured (mo-yr)	Altitude of land surface (ft)	Remarks
01S-09E-01 DDC 1	W	15 A	--	4 A	--	Ph	8-77	660	0
01S-09E-24 CDB 1	W	20 A	--	16 A	--	Pa	1-78	700	0
01S-09E-25 BCC 1	W	53 A	--	F	--	Pa	1-78	685	0
01S-10E-02 AAA 1	W	16 A	--	4 A	--	Pm	7-81	610	0
01S-10E-06 ABB 1	W	146 A	--	34 A	--	Pm	7-77	640	0
01S-10E-06 ADB 1	W	18 A	--	5 A	--	Pm	7-81	685	0
01S-10E-06 RRB 1	W	70 G	--	38 G	--	Pm	7-81	670	0
01S-10E-06 BCB 1	W	19 A	--	10 A	--	Pm	7-81	675	0
01S-10E-08 ABC 1	W	370 G	5	135 G	--	Ph	8-77	625	0
01S-10E-08 ABD 1	W	370 G	--	179 A	--	Ph	8-79	630	0
01S-10E-08 ACA 1	W	545 G	6	135 G	--	Ph	8-77	538	0
01S-10E-08 BAA 1	W	350 G	--	165 A	--	Ph	8-79	625	0
01S-10E-08 BAC 1	W	350 G	--	135 G	--	Ph	8-77	632	0
01S-10E-08 CCC 1	W	52 A	--	14 A	--	Ph	8-79	690	0
01S-10E-15 BDD 1	W	40 G	--	--	--	Pm	5-77	615	0
01S-10E-16 BAD 1	W	127 A	--	6 A	--	Pm	8-79	645	P
01S-10E-16 CBA 1	S	--	--	8 A	3.0	Pm	5-77	640	--
01S-10E-17 BAA 1	W	25 A	24	6 A	--	Pm	5-77	695	0
01S-10E-17 CAD 1	W	49 A	6	8 A	5.4	Ph	8-79	670	0
01S-10E-17 CDB 1	W	50 G	--	F	5.1		8-79		0
01S-10E-17 CDB 1	W	50 G	--		5.3		1-81		0
01S-10E-17 CDB 1	W	50 G	--		5.5		1-82		0
01S-10E-20 ABB 1	S	--	--	--	--	Ph	5-77	710	P
01S-10E-20 ABB 1	S	--	--	--	3.0	Ph	8-78	710	0
01S-10E-20 DCC 1	S	--	--	--	1.0	Ph	1-82	710	0
01S-10E-20 DCC 1	S	--	--	--	F	Ph	5-77	690	0
01S-10E-20 DCC 1	S	--	--	--	F	Ph	8-78	690	0
01S-10E-20 DCC 1	S	--	--	--	F	Ph	8-79	690	0
01S-10E-20 DCC 1	S	--	--	--	0.37	Ph	1-82	690	P

Table 32.--Records of wells and springs --Continued

Site location	Site type	Well depth (ft)	Well diameter (inches)	Depth to water (ft)	Well or spring discharge (gpm)	Aquifer	Date measured (mo-yr)	Altitude of land surface (ft)	Remarks
01S-10E-21 ACB 1	W	365 G	--	F F	--	Ph	5-77 8-79	630	0 0
01S-10E-21 BCC 1	W	121 A	4	13 A 14 A	--	Ph	1-82 9-77 11-78	710	P 0,M 0
01S-10E-21 CCC 1	W	272 A	5	F	-- 0.62 0.39	Ph	5-77 8-79	655	-- 0
01S-10E-21 DBB 1	W	360 G	8	F	--	Ph	1-82	620	P
01S-10E-21 DBC 2	W	375 G	--	0 G	--	Ph	5-77 7-78	615	0 0
01S-10E-21 DCA 1	W	500 G	--	28 A -- F	--	Ph	8-79 1-82 5-77	610	0 P --
01S-10E-21 DCD 1	W	350 G	8	-- 9 A F	--	Ph	8-79 1-82 5-77 7-78	610	0 P 0 0
01S-10E-21 DCD 2	W	400 G	--	-- 9 A -- F	--	Ph	8-79 1-82 5-77 7-78	610	0 P 0 0
01S-10E-22 ADA 1	W	21 A	--	-- 10 A -- 4 A	--	Pm	8-79 1-82 5-77	603	0 P 0
01S-10E-22 DDD 1	W	47 A	4	6 A 5 A	--	Pm	8-79 5-77 7-78	600	-- 0 0
01S-10E-23 CCC 1	S	--	--	-- 2 A 1 A	F F F	Pm	8-79 1-82 5-77 8-79	599	0 P 0 0
01S-10E-25 BAB 1	W	95 A	--	-- 6 A	--	Pm	1-82 5-77 8-79	580	0 P 0
01S-10E-27 AAA 1	W	--	--	-- 9 A	--	Pm	1-82 8-79	620	-- L
01S-10E-27 BAB 1	W	32 A	8	-- 9 A	--	Pm	9-77	630	0
01S-10E-34 DDA 1	S	--	--	--	F	Pm	8-77	630	0
01S-10E-35 BAA 1	W	98 G	--	--	--	Pm	1-78	625	0
01S-11E-04 CCD 1	W	113 A	--	45 A	--	Pb	8-77	595	0
01S-11E-07 ACC 1	W	33 A	--	11 A	--	Ps	1-78	600	0
01S-11E-17 ACB 1	S	--	--	--	F	Pb	8-77	560	0
01S-11E-18 DBD 1	W	21 A	--	-- 6 A	--	Pb	8-77	600	0
02S-10E-06 DDD 1	W	150 A	--	2 A	--	Pa	1-78	640	0

Table 33.--Average daily water level, in feet below land surface, at site 2

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	6.56	7.91	---	6.15	7.25	10.05	12.27
2	---	---	---	---	---	6.59	7.87	---	6.10	7.44	10.04	12.30
3	---	---	---	---	---	6.73	7.83	6.14	6.14	7.64	10.06	12.33
4	---	---	---	---	---	6.88	7.74	6.38	6.06	7.84	9.92	12.35
5	---	---	---	---	---	7.10	7.65	6.41	6.10	8.04	9.84	12.37
6	---	---	---	---	---	7.20	7.78	6.37	6.08	8.23	9.85	12.39
7	---	---	---	---	---	7.30	7.72	6.50	6.25	8.45	9.75	12.42
8	---	---	---	---	---	7.39	7.63	6.51	6.28	8.62	9.70	12.44
9	---	---	---	---	---	7.51	7.61	6.53	6.35	8.79	9.77	12.33
10	---	---	---	---	---	7.55	7.79	6.43	6.32	9.04	9.86	12.23
11	---	---	---	---	---	7.52	7.98	6.49	6.25	9.23	9.96	12.19
12	---	---	---	---	---	7.52	8.17	6.44	6.13	9.41	10.12	12.17
13	---	---	---	---	---	7.53	8.16	6.20	6.14	9.50	10.40	12.20
14	---	---	---	---	---	7.48	8.14	6.20	6.28	9.56	10.58	12.23
15	---	---	---	---	---	7.50	8.02	6.17	6.53	9.64	10.77	12.25
16	---	---	---	---	---	7.52	8.02	6.01	6.66	9.79	11.05	12.27
17	---	---	---	---	---	7.58	7.94	5.94	6.61	9.94	11.33	12.27
18	---	---	---	---	---	7.72	7.92	6.10	6.55	10.13	11.55	12.28
19	---	---	---	---	---	7.84	7.79	6.15	6.56	10.30	11.73	12.33
20	---	---	---	---	---	7.78	7.74	6.09	6.88	10.51	11.92	12.38
21	---	---	---	---	---	7.78	7.83	6.09	6.90	10.60	12.00	12.45
22	---	---	---	---	---	7.85	7.96	6.37	7.05	10.65	12.02	12.53
23	---	---	---	---	---	8.00	7.98	6.52	7.08	10.74	12.01	12.59
24	---	---	---	---	---	7.93	7.76	6.47	7.17	10.76	12.03	12.63
25	---	---	---	---	---	7.77	7.44	6.61	7.18	10.73	12.12	12.66
26	---	---	---	---	---	7.66	7.24	6.45	7.07	10.64	12.17	12.65
27	---	---	---	---	---	7.55	---	6.41	7.16	10.52	12.18	12.64
28	---	---	6.57	---	---	7.51	---	6.29	7.19	10.27	12.18	12.66
29	---	---	---	---	---	7.62	---	6.34	7.07	10.12	12.19	12.66
30	---	---	---	---	---	7.58	---	6.27	7.16	10.07	12.20	12.69
31	---	---	---	---	---	7.72	---	6.11	---	10.06	12.23	---
MEAN	---	---	6.57	---	---	7.48	7.83	6.31	6.58	9.50	11.02	12.41

Water year October 1977 to September 1978

Table 33.--Average daily water level, in feet below land surface, at site 2 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.73	12.97	11.72	11.71	11.89	7.93	6.16	6.41	6.14	7.77	8.91	10.16
2	12.74	12.95	11.63	11.65	11.89	7.79	6.21	6.44	6.20	7.84	8.96	9.87
3	12.75	12.93	11.59	11.45	11.89	7.48	6.14	6.32	6.23	7.91	9.00	9.47
4	12.76	12.92	11.58	11.29	11.89	7.45	6.12	6.22	6.25	8.00	9.03	9.29
5	12.77	12.91	11.50	11.48	11.89	7.39	6.04	6.21	6.25	8.09	9.10	9.27
6	12.78	12.90	11.42	11.81	11.89	7.33	6.03	6.26	6.20	8.19	9.16	9.30
7	12.81	12.91	11.40	12.15	11.17	7.18	6.15	6.34	6.14	8.27	9.23	9.34
8	12.82	12.94	11.40	12.53	10.85	7.10	6.20	6.46	6.02	8.34	9.35	9.42
9	12.83	12.94	11.42	12.86	10.65	6.96	6.12	6.61	6.00	8.40	9.57	9.49
10	12.83	12.91	11.44	13.02	10.49	7.04	6.05	6.74	6.00	8.45	9.70	9.53
11	12.81	12.88	11.46	13.04	10.37	7.17	5.87	6.89	6.05	8.50	9.77	9.55
12	12.79	12.92	11.53	13.08	10.28	7.11	5.84	6.89	6.06	8.55	9.83	9.54
13	12.78	12.89	11.70	13.18	10.22	6.91	6.00	6.89	6.06	8.49	9.88	9.54
14	12.86	12.84	11.83	13.30	9.94	6.96	6.02	6.95	6.11	8.44	9.91	9.57
15	12.86	12.83	11.85	13.36	9.73	7.11	6.09	7.03	6.15	8.52	9.96	9.63
16	12.92	12.78	11.83	13.41	9.61	7.22	6.25	6.97	6.15	8.63	10.03	9.67
17	12.98	12.66	11.86	13.41	9.55	7.27	6.46	6.94	6.09	8.73	10.10	9.70
18	13.01	12.56	11.69	13.46	9.52	7.09	6.65	6.98	6.12	8.80	10.14	9.73
19	13.03	12.46	11.50	13.55	9.49	6.97	6.54	7.02	6.19	8.82	10.17	9.76
20	13.02	12.37	11.37	13.62	9.28	6.75	6.47	6.90	6.44	8.82	10.20	9.79
21	12.99	12.29	11.41	13.67	9.09	6.56	6.34	6.85	6.67	8.82	10.23	9.82
22	12.95	12.18	11.57	13.65	8.86	6.30	6.29	6.80	6.89	8.82	10.25	9.90
23	12.94	12.09	11.64	13.62	8.73	6.18	6.28	6.55	7.05	8.82	10.26	9.96
24	12.98	12.04	11.66	13.63	8.69	6.31	6.14	6.49	7.17	8.78	10.26	10.03
25	12.94	12.00	11.74	13.52	8.55	6.42	6.08	6.52	7.18	8.76	10.26	10.09
26	12.91	11.96	11.86	13.13	8.27	6.50	6.05	6.55	7.24	8.76	10.26	10.14
27	12.91	11.93	11.88	12.71	8.05	6.59	6.10	6.53	7.43	8.76	10.26	10.17
28	12.93	11.89	11.85	12.49	8.00	6.51	6.28	6.38	7.56	8.77	10.20	10.19
29	12.95	11.86	11.82	12.17	---	6.43	6.28	6.28	7.64	8.77	10.16	10.20
30	12.96	11.80	11.78	11.98	---	6.39	6.32	6.25	7.71	8.80	10.18	10.24
31	12.96	---	11.74	11.95	---	6.28	---	6.13	---	8.84	10.20	---
MEAN	12.88	12.55	11.63	12.77	10.03	6.93	6.19	6.61	6.51	8.52	9.82	9.75

Water year October 1978 to September 1979

Table 33.--Average daily water level, in feet below land surface, at site 2 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.28	11.04	10.00	9.57	8.49	7.58	7.64	7.86	6.78	8.05	11.41	13.32
2	10.33	11.00	9.92	9.55	8.45	7.59	7.74	7.86	6.75	8.14	11.46	13.31
3	10.37	10.95	9.81	9.55	8.27	7.48	7.87	7.81	6.80	8.28	11.51	13.31
4	10.45	10.87	9.75	9.56	8.16	7.36	7.96	7.71	6.85	8.40	11.55	13.32
5	10.50	10.78	9.64	9.58	8.13	7.40	7.94	7.64	6.88	8.53	11.60	13.34
6	10.52	10.62	9.55	9.57	8.14	7.48	7.81	7.59	6.92	8.65	11.67	13.36
7	10.56	10.32	9.54	9.54	8.17	7.44	7.70	7.56	7.02	8.77	11.80	13.37
8	10.58	9.90	9.61	9.55	8.18	7.45	7.74	7.57	7.16	8.92	11.93	13.38
9	10.62	9.58	9.68	9.55	8.06	7.50	7.81	7.57	7.17	9.05	11.97	13.40
10	10.70	9.55	9.70	9.53	7.81	7.51	7.80	7.49	7.17	9.24	12.01	13.44
11	10.73	9.62	9.67	9.46	7.52	7.55	7.74	7.46	7.25	9.47	12.10	13.46
12	10.78	9.70	9.68	9.49	7.44	7.52	7.78	7.51	7.33	9.61	12.22	13.47
13	10.97	9.78	9.70	9.46	7.41	7.57	7.82	7.62	7.39	9.72	12.25	13.45
14	11.17	9.86	9.74	9.41	7.38	7.69	7.79	7.73	7.45	9.86	12.28	13.33
15	11.36	9.87	9.72	9.38	7.39	7.73	7.77	7.78	7.53	10.05	12.31	13.11
16	11.44	9.88	9.67	9.35	7.45	7.69	7.80	7.73	7.62	10.18	12.34	12.88
17	11.47	9.88	9.72	9.35	7.52	7.56	7.75	7.69	7.72	10.31	12.39	12.64
18	11.50	9.85	9.73	9.36	7.53	7.59	7.76	7.65	7.81	10.47	12.45	12.48
19	11.50	9.82	9.69	9.37	7.44	7.59	7.79	7.44	7.94	10.56	12.50	12.40
20	11.47	9.84	9.60	9.38	7.34	7.55	7.84	7.31	8.14	10.63	12.60	12.43
21	11.43	9.84	9.53	9.35	7.30	7.62	7.88	7.27	8.12	10.73	12.75	12.53
22	11.40	9.85	9.48	9.20	7.33	7.64	7.94	7.22	8.02	10.88	12.87	12.65
23	11.41	9.87	9.46	9.08	7.38	7.60	8.01	7.14	7.94	11.00	12.95	12.79
24	11.41	9.88	9.46	8.98	7.45	7.60	8.06	7.07	7.86	11.14	13.01	12.92
25	11.39	9.87	9.51	8.88	7.54	7.67	8.09	7.01	7.84	11.23	13.09	13.02
26	11.38	9.85	9.53	8.82	7.64	7.68	8.10	7.05	7.83	11.29	13.23	13.13
27	11.36	9.85	9.53	8.83	7.63	7.68	8.12	7.12	7.85	11.32	13.32	13.23
28	11.34	9.90	9.55	8.83	7.56	7.67	8.11	7.19	7.88	11.32	13.38	13.20
29	11.30	9.97	9.58	8.78	7.50	7.65	8.00	7.19	7.92	11.32	13.39	13.02
30	11.20	10.00	9.57	8.56	---	7.61	7.90	7.06	7.98	11.32	13.38	12.79
31	11.08	---	9.56	8.48	---	7.62	---	6.86	---	11.36	13.35	---
MEAN	11.03	10.05	9.64	9.27	7.71	7.58	7.87	7.44	7.50	9.99	12.42	13.08

Water year October 1979 to September 1980

Table 33.--Average daily water level, in feet below land surface, at site 2 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.55	10.23	8.95	7.56	7.28	6.91	6.51	6.76	5.93	7.12	8.30	8.78
2	12.40	10.08	8.95	7.60	7.30	6.87	6.55	6.85	5.98	7.20	8.30	8.77
3	12.28	9.99	9.00	7.58	7.33	6.84	6.54	6.86	5.97	7.29	8.28	8.76
4	12.15	9.96	9.04	7.51	7.38	6.52	6.57	6.73	5.88	7.35	8.28	8.77
5	12.07	9.95	9.09	7.48	7.42	6.47	6.64	6.74	5.86	7.38	8.23	8.80
6	12.02	9.92	8.99	7.47	7.41	6.47	6.75	6.87	5.72	7.39	8.19	8.84
7	11.83	9.88	8.88	7.52	7.39	6.50	6.77	6.95	5.81	7.32	8.20	8.86
8	11.65	9.83	8.70	7.45	7.30	6.63	6.63	6.95	5.92	7.30	8.23	8.90
9	11.57	9.80	8.45	7.43	7.24	6.62	6.49	6.76	5.98	7.31	8.29	8.96
10	11.61	9.81	8.25	7.54	7.19	6.47	6.53	6.49	6.06	7.20	8.30	9.00
11	11.78	9.82	8.00	7.67	7.35	6.44	6.64	6.48	6.17	7.14	8.31	9.04
12	11.88	9.83	7.81	7.67	7.46	6.35	6.78	6.35	6.30	7.19	8.35	9.09
13	11.90	9.82	7.68	7.56	7.51	6.32	6.79	6.31	6.37	7.24	8.40	9.11
14	11.89	9.80	7.64	7.39	7.52	6.43	6.87	6.42	6.31	7.26	8.46	9.13
15	11.84	9.80	7.57	7.36	7.49	6.34	6.92	6.39	6.32	7.18	8.54	9.14
16	11.63	9.78	7.53	7.46	7.41	6.37	6.94	6.18	6.24	7.15	8.60	9.18
17	11.47	9.71	7.50	7.52	7.36	6.24	6.97	6.11	6.30	7.23	8.66	9.24
18	11.37	9.67	7.44	7.53	7.35	6.17	7.03	6.10	6.31	7.32	8.73	9.30
19	11.32	9.63	7.51	7.53	7.35	6.36	6.92	6.23	6.18	7.41	8.81	9.35
20	11.28	9.53	7.68	7.50	7.21	6.48	6.70	6.31	6.16	7.51	8.92	9.36
21	11.17	9.30	7.79	7.51	7.08	6.31	6.70	6.39	6.24	7.63	9.00	9.32
22	11.09	9.20	7.69	7.56	7.01	6.18	6.75	6.43	6.23	7.75	9.05	9.30
23	10.91	9.24	7.53	7.53	7.04	6.38	6.83	6.48	6.32	7.87	9.09	9.31
24	10.82	9.26	7.50	7.35	7.01	6.55	6.87	6.52	6.48	7.96	9.13	9.32
25	10.77	9.28	7.58	7.24	6.95	6.55	6.86	6.42	6.62	8.06	9.16	9.25
26	10.71	9.26	7.54	7.15	6.97	6.58	6.75	6.31	6.78	8.13	9.17	9.19
27	10.61	9.18	7.54	7.16	7.05	6.65	6.73	6.15	6.93	8.19	8.91	9.21
28	10.55	9.10	7.55	7.23	7.05	6.69	6.82	6.14	7.04	8.26	8.87	9.24
29	10.55	9.04	7.57	7.28	7.05	6.55	6.87	6.19	7.03	8.28	8.89	9.27
30	10.50	9.00	7.61	7.29	7.05	6.50	6.75	6.11	7.05	8.29	8.84	9.27
31	10.40	---	7.56	7.29	7.05	6.52	---	5.95	---	8.29	8.81	---
MEAN	11.44	9.62	8.00	7.45	7.26	6.49	6.75	6.45	6.28	7.55	8.62	9.10

Water year October 1980 to September 1981

Table 33.--Average daily water level, in feet below land surface, at site 2 --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.26	5.36	5.70	6.58	---	---	---	---	---	---	---	---
2	9.26	6.04	6.17	6.55	---	---	---	---	---	---	---	---
3	9.17	6.54	6.41	6.54	---	---	---	---	---	---	---	---
4	9.08	6.80	6.63	6.65	---	---	---	---	---	---	---	---
5	9.06	6.92	6.72	6.71	---	---	---	---	---	---	---	---
6	9.10	7.02	6.56	6.66	---	---	---	---	---	---	---	---
7	9.15	7.04	6.47	6.76	---	---	---	---	---	---	---	---
8	9.19	6.51	6.87	6.87	---	---	---	---	---	---	---	---
9	9.22	5.71	6.60	6.82	---	---	---	---	---	---	---	---
10	9.26	6.02	6.52	6.84	---	---	---	---	---	---	---	---
11	9.25	6.43	6.44	6.89	---	---	---	---	---	---	---	---
12	8.56	6.67	6.47	6.64	---	---	---	---	---	---	---	---
13	7.36	6.78	6.53	6.44	---	---	---	---	---	---	---	---
14	7.10	6.70	6.45	6.38	---	---	---	---	---	---	---	---
15	7.42	6.58	6.42	6.37	---	---	---	---	---	---	---	---
16	7.04	6.59	6.41	6.55	---	---	---	---	---	---	---	---
17	6.85	6.65	6.47	6.73	---	---	---	---	---	---	---	---
18	6.96	6.65	6.59	6.70	---	---	---	---	---	---	---	---
19	7.29	6.61	6.64	6.71	---	---	---	---	---	---	---	---
20	7.43	6.70	6.60	6.80	---	---	---	---	---	---	---	---
21	7.50	6.73	6.35	6.86	---	---	---	---	---	---	---	---
22	7.22	6.73	6.20	5.82	---	---	---	---	---	---	---	---
23	7.04	6.72	6.37	5.83	---	---	---	---	---	---	---	---
24	7.17	6.76	6.54	6.45	---	---	---	---	---	---	---	---
25	7.18	6.71	6.60	6.62	---	---	---	---	---	---	---	---
26	7.18	6.55	6.43	6.79	---	---	---	---	---	---	---	---
27	7.22	6.62	6.34	6.74	---	---	---	---	---	---	---	---
28	7.26	6.73	6.39	6.67	---	---	---	---	---	---	---	---
29	7.27	6.80	6.61	6.51	---	---	---	---	---	---	---	---
30	7.25	5.61	6.70	5.54	---	---	---	---	---	---	---	---
31	6.51	---	6.57	4.77	---	---	---	---	---	---	---	---
MEAN	7.93	6.54	6.46	6.51	---	---	---	---	---	---	---	---

Water year October 1981 to September 1982

Table 34.--Water level measurements, in feet below land surface, at site 17

Aquifer: Hartshorne Sandstone

Well characteristics: Drilled, unused domestic supply well;
diameter, 4 inches; depth, 121 feet.

Datum: Altitude of land surface datum is 713.48 feet.

[ft, feet]

Date	Water level (ft)	Date	Water level (ft)
May 24, 1977	8.26	Nov 29, 1979	13.42
Sep 13	13.04	Dec 20	14.16
Aug 30, 1978	12.92	Jan 08, 1980	14.51
Sep 12	13.09	22	14.83
26	13.68	Feb 01	15.17
Oct 03	13.59	20	15.18
18	13.87	Mar 05	15.54
25	13.81	20	15.81
31	14.03	Apr 03	16.03
Nov 07	13.92	15	16.26
14	13.15	May 09	16.63
17	13.08	16	16.64
21	13.37	30	1.73
30	13.50	Jun 12	16.67
Dec 07	13.60	Jul 03	15.82
19	14.12	08	15.70
Jan 16, 1979	15.00	Aug 14	14.80
31	15.35	Sep 28	8.54
Feb 09	15.45	29	12.32
21	15.73	Oct 03	14.30
Mar 01	13.20	23	14.38
07	15.35	Nov 05	14.48
Mar 13	16.32	25	14.76
21	2.20	Dec 09	7.28
28	9.62	Jan 06, 1981	15.28
Apr 11	10.31	15	15.28
17	11.32	30	15.15
25	10.41	Feb 01	15.14
May 01	10.83	12	15.31
08	10.38	20	15.38
31	2.20	26	15.33
Jun 19	7.43	Mar 02	12.70
Jul 02	8.57	04	2.26
17	9.73	12	11.70
30	10.24	17	11.07
Aug 14	11.05	25	11.72
28	11.40	Apr 02	11.62
Sep 10	12.02	14	11.74
25	12.38	22	11.49
Oct 09	12.39	23	11.56
22	12.69	May 06	11.88

Table 34.--Water level measurements, in feet below land surface,
at site 17 --Continued

Aquifer: Hartshorne Sandstone

Well characteristics: Drilled, unused domestic supply well;
diameter, 4 inches; depth, 121 feet.

Datum: Altitude of land surface datum is 713.48 feet.

[ft, feet]

Date	Water level (ft)
May 12, 1981	11.98
19	12.25
Jun 08	10.61
Jul 09	11.55
29	12.06
Aug 11	12.45
25	12.77
29	12.79
Sep 08	13.18
23	13.27
Oct 14	1.72
27	2.54
Nov 09	1.44
23	3.46
Dec 01	2.66
10	4.50
16	5.75
30	7.76
Jan 28, 1982	9.06

Table 35.-- Concentration of common constituents, selected trace elements, and physical properties of water from wells and springs
 [W, well; S, spring; DEG C, degrees Celsius; UMHOS, micromhos per centimeter at 25 degrees Celsius; MG/L, milligrams per liter; UG/L, micrograms per liter; AC-FT, acre-feet]

STATION NUMBER	SITE TYPE	DATE OF SAMPLE	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	SPECLIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	ALKALINITY FIELD AS (MG/L CAC03)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, SOLVED (MG/L AS N)
01S-09E-01	DDC 1	77-08-16	25.5	--	1780	7.1	--	--	--
01S-09E-24	CDB 1	78-01-06	15.0	--	980	--	--	--	--
01S-09E-25	BCC 1	78-01-06	12.5	--	450	--	--	--	--
01S-10E-02	AAA 1	81-07-22	26.0	--	182	7.2	--	--	--
01S-10E-06	ABB 1	77-07-21	19.5	--	370	7.8	--	--	--
01S-10E-06	ADB 1	81-07-22	25.5	--	512	7.1	--	--	--
01S-10E-06	BBB 1	81-07-23	21.5	--	2090	7.0	--	--	--
01S-10E-06	BCB 1	81-07-23	20.5	--	840	7.1	--	--	--
01S-10E-08	ABC 1	77-08-16	19.0	--	820	8.0	--	--	--
01S-10E-08	ABD 1	79-08-02	21.0	--	640	8.4	--	--	--
01S-10E-08	ABD 1	77-08-16	19.0	--	540	8.4	--	--	--
01S-10E-08	ACA 1	79-08-02	20.5	--	540	8.7	--	--	--
01S-10E-08	BAA 1	77-08-16	19.5	--	670	7.5	--	--	--
01S-10E-08	BAC 1	77-08-16	19.5	--	680	8.8	--	--	--
01S-10E-08	BAC 1	77-08-16	19.0	--	890	7.4	--	--	--
01S-10E-08	BDD 1	79-08-02	22.0	--	880	8.0	--	--	--
01S-10E-15	BDD 1	78-08-29	19.0	2	570	7.8	260	.17	--
01S-10E-15	BDD 1	79-08-01	25.0	--	535	7.8	--	--	--
01S-10E-16	CBA 1	82-01-28	16.0	--	530	7.5	--	--	--
01S-10E-17	BAA 1	77-05-25	16.5	--	370	6.7	--	--	--
01S-10E-17	BAA 1	77-05-25	16.5	--	260	7.1	--	--	--
01S-10E-17	CAD 1	78-08-29	18.0	5	490	7.5	200	.32	--
01S-10E-17	CAD 1	79-08-02	18.0	--	435	7.5	--	--	--
01S-10E-17	CDB 1	81-01-07	16.0	--	450	7.4	--	--	--
01S-10E-17	CDB 1	82-01-28	17.0	--	460	7.6	--	--	--
01S-10E-20	ABB 1	77-05-25	21.0	--	740	3.3	--	--	--
01S-10E-20	ABB 1	78-08-29	20.0	10	335	4.5	<1.0	4.5	--
01S-10E-20	ABB 1	82-01-28	12.0	--	780	4.3	--	--	--
01S-10E-20	ABB 1	77-05-25	18.0	--	185	6.4	--	--	--
01S-10E-20	DCC 1	81-01-07	13.0	--	208	7.2	--	--	--
01S-10E-20	DCC 1	82-01-28	17.0	--	195	6.6	--	--	--
01S-10E-20	DCC 1	77-05-24	18.5	--	410	7.3	--	--	--
01S-10E-20	DCC 1	78-08-30	18.5	7	410	7.3	200	.43	--
01S-10E-20	DCC 1	79-08-02	20.0	--	395	7.4	--	--	--
01S-10E-21	ACB 1	82-01-28	15.0	--	380	7.2	--	--	--
01S-10E-21	ACB 1	77-05-24	19.0	--	520	8.1	--	--	--
01S-10E-21	ACB 1	79-08-03	19.0	0	490	8.2	210	.18	.41
01S-10E-21	ACB 1	79-08-03	19.0	--	490	8.2	--	--	--
01S-10E-21	ACB 1	82-01-28	18.0	--	520	8.7	--	--	--

Table 35.-- Concentration of common constituents, selected trace elements, and physical properties of water from wells and springs --Continued

STATION NUMBER	SITE TYPE	DATE OF SAMPLE	TEMPERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	ALKALINITY FIELD AS (MG/L CAC03)	NITROGEN TOTAL (MG/L AS N)	NITROGEN SOLVED (MG/L AS N)
01S-10E-21 BCC 1	W	77-09-13	21.0	--	80	5.1	--	--	--
01S-10E-21 CCC 1	W	78-11-07	18.0	90	315	6.5	52	2.6	--
01S-10E-21 CCC 1	W	79-08-02	20.0	--	610	8.7	--	--	--
01S-10E-21 DBB 1	W	82-01-28	18.0	--	615	8.9	--	--	--
01S-10E-21 DBC 2	W	82-01-28	18.0	--	455	8.3	--	--	--
		77-05-24	19.0	--	295	7.3	--	--	--
		78-07-19	18.5	2	310	7.4	120	.16	--
		79-08-03	19.5	--	280	7.4	--	--	--
		82-01-28	18.0	--	265	7.7	--	--	--
01S-10E-21 DCA 1	W	77-05-24	18.5	--	610	8.0	--	--	--
		79-08-03	19.5	0	690	8.4	210	.23	.37
		79-08-03	19.5	--	690	8.4	--	--	--
01S-10E-21 DCD 1	W	82-01-28	19.0	--	350	7.5	--	--	--
		77-05-24	19.0	--	630	7.7	--	--	--
		78-07-19	19.0	1	700	8.0	200	.85	--
		79-08-03	19.0	--	640	8.1	--	--	--
		82-01-28	19.0	--	600	8.1	--	--	--
01S-10E-21 DCD 2	W	77-05-24	18.5	--	2270	8.3	--	--	--
		78-07-19	19.0	1	1150	8.2	210	.58	--
		79-08-03	19.5	--	1830	8.6	--	--	--
		82-01-28	18.0	--	1460	8.5	--	--	--
01S-10E-22 ADA 1	W	77-05-26	16.0	--	360	7.7	--	--	--
01S-10E-22 DDD 1	W	77-05-24	17.0	--	525	7.8	--	--	--
		78-07-19	21.5	1	540	7.8	240	.30	--
		79-08-01	20.0	--	460	7.7	--	--	--
01S-10E-23 CCC 1	S	82-01-28	15.0	--	544	7.8	--	--	--
		77-05-25	16.0	--	530	7.6	--	--	--
		79-08-01	24.0	--	511	8.3	--	--	--
01S-10E-25 BAB 1	W	82-01-28	13.5	--	510	8.3	--	--	--
01S-10E-27 AAA 1	W	78-01-05	17.0	--	750	--	--	--	--
01S-10E-34 DDA 1	W	78-08-30	26.5	8	590	7.6	270	.21	--
01S-10E-35 BAA 1	W	77-08-16	24.5	--	325	7.9	--	--	--
01S-11E-04 CCD 1	W	78-01-04	19.0	--	1400	--	--	--	--
01S-11E-07 ACC 1	W	77-08-19	27.0	--	1200	7.5	--	--	--
01S-11E-17 ACB 1	W	78-01-04	18.0	--	85	--	--	--	--
01S-11E-18 DBD 1	W	77-08-18	23.5	--	148	6.5	--	--	--
02S-10E-06 DDD 1	W	77-08-19	21.5	--	293	6.9	--	--	--
		78-01-05	15.0	--	5400	--	--	--	--

Table 35.-- Concentration of common constituents, selected trace elements, and physical properties of water from wells and springs --Continued

STATION	NUMBER	DATE OF SAMPLE	[W, well; S, spring; DEG C, degrees Celsius; UMHOS, micromhos per centimeter at 25 degrees Celsius; MG/L, milligrams per liter; UG/L, micrograms per liter; AC-FT, acre-feet]										
			NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
01S-10E-21	BCC 1	77-09-13	.89	<.010	.030	.50	.92	1.7	1.7	1.7	.150		
01S-10E-21	CCC 1	78-11-07	.50	<.010	.030	.50	.92	1.7	1.7	1.7	.150		
01S-10E-21	DBB 1	82-01-28	.50	<.010	.030	.50	.92	1.7	1.7	1.7	.150		
01S-10E-21	DBC 2	77-05-24	.11	.010	<.010	.14	.11	.05	.05	.06	.020		
01S-10E-21	DCA 1	79-08-03	.00	.06	.220	.32	.18	.05	.05	.05	.020		
01S-10E-21	DCD 1	77-05-24	.62	.03	.140	.19	.76	.09	.09	.05	<.010		
01S-10E-21	DCD 2	78-07-19	.19	.14	.200	.35	.39	.19	.19	.18	.010		
01S-10E-22	ADA 1	82-01-28	.07	.06	.120	.19	.19	.11	.11	.07	.010		
01S-10E-22	DDD 1	77-05-24	.07	.06	.120	.19	.19	.11	.11	.07	.010		
01S-10E-23	CCC 1	77-05-25	.06	.15	<.010	.15	.07	.14	.14	.17	<.010		
01S-10E-25	BAB 1	78-01-05	.06	.15	<.010	.15	.07	.14	.14	.17	<.010		
01S-10E-27	AAA 1	78-08-30	.06	.15	<.010	.15	.07	.14	.14	.17	<.010		
01S-10E-34	DDA 1	77-08-16	.06	.15	<.010	.15	.07	.14	.14	.17	<.010		
01S-10E-35	BAA 1	78-01-04	.06	.15	<.010	.15	.07	.14	.14	.17	<.010		
01S-11E-04	CCD 1	77-08-19	.06	.15	<.010	.15	.07	.14	.14	.17	<.010		
01S-11E-07	ACC 1	78-01-04	.06	.15	<.010	.15	.07	.14	.14	.17	<.010		
01S-11E-17	ACB 1	77-08-18	.06	.15	<.010	.15	.07	.14	.14	.17	<.010		
01S-11E-18	DBD 1	77-08-19	.06	.15	<.010	.15	.07	.14	.14	.17	<.010		
02S-10E-06	DDD 1	78-01-05	.06	.15	<.010	.15	.07	.14	.14	.17	<.010		

Table 3b.-- Concentration of common constituents, selected trace elements, and physical properties of water from wells and springs --Continued

[W, well; S, spring; DEG C, degrees Celsius; UMHOS, micromhos per centimeter at 25 degrees Celsius; MG/L, milligrams per liter; UG/L, micrograms per liter; AC-FT, acre-feet]

STATION NUMBER	DATE OF SAMPLE	CHLORIDE, DIS-SOLVED (MG/L AS CL)	SULFATE DIS-SOLVED (MG/L AS SO4)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SI02)	ARSENIC DIS-SOLVED (UG/L AS AS)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHROMIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)
01S-10E-21 BCC 1	77-09-13	6.0	6.0	--	--	--	<20	--	ND	--
01S-10E-21 CCC 1	78-11-07	6.2	44	.20	16	1	<20	<2	ND	3
	79-08-02	37	19	--	--	--	--	--	--	--
01S-10E-21 DBB 1	82-01-28	--	--	--	--	--	--	--	--	--
01S-10E-21 DBC 2	82-01-28	9.0	24	--	--	--	--	--	--	--
	77-05-24	5.7	23	.10	23	2	60	<2	ND	2
	78-07-19	5.0	20	--	--	--	--	--	--	--
	79-08-03	--	--	--	--	--	--	--	--	--
01S-10E-21 DCA 1	82-01-28	--	--	--	--	--	--	--	--	--
	77-05-24	--	--	--	--	--	--	--	--	--
	79-08-03	53	24	.20	12	2	280	2	20	2
	79-08-03	55	18	--	--	--	--	--	--	--
01S-10E-21 DCD 1	82-01-28	--	--	--	--	--	--	--	--	--
	77-05-24	24	73	--	--	--	--	--	--	--
	78-07-19	70	26	.20	16	2	180	<2	ND	2
	79-08-03	68	26	--	--	--	--	--	--	--
01S-10E-21 DCD 2	82-01-28	--	--	--	--	--	--	--	--	--
	77-05-24	550	59	--	--	--	--	--	--	--
	78-07-19	210	34	.20	15	2	290	<2	ND	ND
	79-08-03	400	57	--	--	--	--	--	--	--
01S-10E-22 ADA 1	82-01-28	--	--	--	--	--	--	--	--	--
	77-05-26	16	23	--	--	--	--	--	--	--
01S-10E-22 DDD 1	77-05-24	17	20	--	--	--	--	--	--	--
	78-07-19	17	17	.40	18	2	230	3	ND	26
	79-08-01	16	13	--	--	--	--	--	--	--
01S-10E-23 CCC 1	82-01-28	--	--	--	--	--	--	--	--	--
	77-05-25	19	14	--	--	--	--	--	--	--
	79-08-01	18	14	--	--	--	--	--	--	--
01S-10E-25 BAB 1	82-01-28	--	--	--	--	--	--	--	--	--
	78-01-05	91	96	.50	17	1	170	<2	ND	6
01S-10E-27 AAA 1	78-08-30	15	9.0	--	--	--	--	--	--	--
01S-10E-34 DDA 1	77-08-16	21	18	--	--	--	--	--	--	--
01S-10E-35 BAA 1	78-01-04	160	80	--	--	--	--	--	--	--
01S-11E-04 CCD 1	77-08-19	100	200	--	--	--	--	--	--	--
01S-11E-07 ACC 1	78-01-04	8.0	11	--	--	--	--	--	--	--
01S-11E-17 ACB 1	77-08-18	12	6.0	--	--	--	--	--	--	--
01S-11E-18 DBD 1	77-08-19	31	25	--	--	--	--	--	--	--
02S-10E-06 DDD 1	78-01-05	1400	80	--	--	--	--	--	--	--

Table 35.--- Concentration of common constituents, selected trace elements, and physical properties of water from wells and springs --Continued

STATION NUMBER	DATE OF SAMPLE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGANESE, DIS-SOLVED (UG/L AS MN)	MOLYBDENUM, DIS-SOLVED (UG/L AS MO)	ZINC, DIS-SOLVED (UG/L AS ZN)	ALUMINUM, DIS-SOLVED (UG/L AS AL)	SELENIUM, DIS-SOLVED (UG/L AS SE)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)
01S-10E-21 BCC 1	77-09-13	30	--	140	--	--	--	--	--	--
01S-10E-21 CCC 1	78-11-07	<0	ND	30	<1	20	<100	<1	157	145
01S-10E-21 DBB 1	79-08-02	30	--	15	--	--	--	--	--	--
01S-10E-21 DBC 2	82-01-28	--	--	--	--	--	--	--	--	--
	82-01-28	10	--	--	--	--	--	--	--	--
	77-05-24	<10	2	80	<1	150	<100	<1	171	183
	78-07-19	570	--	230	--	--	--	--	--	--
	79-08-03	--	--	--	--	--	--	--	--	--
	82-01-28	--	--	--	--	--	--	--	--	--
01S-10E-21 DCA 1	77-05-24	--	ND	7	<10	50	<100	<1	352	358
	79-08-03	40	--	10	--	--	--	--	--	--
	82-01-28	--	--	--	--	--	--	--	--	--
	77-05-24	50	--	--	--	--	--	--	--	--
01S-10E-21 DCD 1	78-07-19	<10	3	<10	<1	50	5	<1	360	379
	79-08-03	40	--	<10	--	--	--	--	--	--
	82-01-28	--	--	--	--	--	--	--	--	--
01S-10E-21 DCE 2	77-05-24	20	2	<10	1	<20	<100	<1	617	631
	78-07-19	20	--	<10	--	--	--	--	--	--
	79-08-03	50	--	--	--	--	--	--	--	--
	82-01-28	--	--	--	--	--	--	--	--	--
01S-10E-22 ADA 1	77-05-26	40	--	--	--	--	--	--	--	--
01S-10E-22 DDD 1	77-05-24	20	--	--	--	--	--	--	--	--
	78-07-19	<10	35	40	2	80	10	<1	298	320
	79-08-01	20	--	50	--	--	--	--	--	--
	82-01-28	20	--	--	--	--	--	--	--	--
01S-10E-23 CCC 1	77-05-25	20	--	<10	--	--	--	--	--	--
	79-08-01	30	--	<10	--	--	--	--	--	--
	82-01-28	--	--	--	--	--	--	--	--	--
01S-10E-25 BAB 1	78-01-05	60	--	25	<1	1300	<100	<1	325	332
01S-10E-27 AAA 1	78-08-30	40	8	<10	--	--	--	--	--	--
01S-10E-34 DDA 1	77-08-16	30	--	<10	--	--	--	--	--	--
01S-10E-35 BAA 1	78-01-04	80	--	50	--	--	--	--	--	--
01S-11E-04 CCD 1	77-08-19	20	--	210	--	--	--	--	--	--
01S-11E-07 ACC 1	78-01-04	200	--	40	--	--	--	--	--	--
01S-11E-17 ACB 1	77-08-18	440	--	530	--	--	--	--	--	--
01S-11E-18 DBD 1	77-08-19	140	--	15	--	--	--	--	--	--
02S-10E-06 DDD 1	78-01-05	60	--	20	--	--	--	--	--	--

Table 35.-- Concentration of common constituents, selected trace elements, and physical properties of water from wells and springs --Continued

[W, well; S, spring; DEG C, degrees Celsius; UMHOS, micromhos per centimeter at 25 degrees Celsius; MG/L, milligrams per liter; UG/L, micrograms per liter; AC-FI, acre-feet]

STATION NUMBER	DATE OF SAMPLE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	PHOS-PHORUS TOTAL (MG/L AS P04)	NITRO-GEN, TOTAL (MG/L AS N03)	MERCURY DIS-SOLVED (UG/L AS HG)
01S-09E-01	DDC 1	77-08-16	--	--	--	--	--
01S-09E-24	CDB 1	78-01-06	--	--	--	--	--
01S-09E-25	BCC 1	78-01-06	--	--	--	--	--
01S-10E-02	AAA 1	81-07-22	--	--	--	--	--
01S-10E-06	ABB 1	77-07-21	--	--	--	--	--
01S-10E-06	ABB 1	81-07-22	--	--	--	--	--
01S-10E-06	BBB 1	81-07-23	--	--	--	--	--
01S-10E-06	BCB 1	81-07-23	--	--	--	--	--
01S-10E-08	ABC 1	77-08-16	--	--	--	--	--
		79-08-02	--	--	--	--	--
01S-10E-08	ABD 1	77-08-16	--	--	--	--	--
		79-08-02	--	--	--	--	--
01S-10E-08	ACA 1	77-08-16	--	--	--	--	--
01S-10E-08	BAA 1	77-08-16	--	--	--	--	--
01S-10E-08	BAC 1	77-08-16	--	--	--	--	--
		79-08-02	--	--	--	--	--
01S-10E-15	BDD 1	78-08-29	.41	.01	--	.75	<.1
		79-08-01	--	--	--	--	--
		82-01-28	--	--	--	--	--
01S-10E-16	CBA 1	77-05-25	--	--	--	--	--
01S-10E-17	BAA 1	77-05-25	--	--	--	--	--
01S-10E-17	CAD 1	78-08-29	.32	.19	--	1.4	<.1
		79-08-02	--	--	--	--	--
		81-01-07	--	--	--	--	--
		82-01-28	--	--	--	--	--
01S-10E-17	CDB 1	77-05-25	.27	.06	--	20	<.1
		78-08-29	--	--	--	--	--
01S-10E-20	ABB 1	77-05-25	--	--	--	--	--
		82-01-28	--	--	--	--	--
		81-01-07	--	--	--	--	--
		82-01-28	--	--	--	--	--
01S-10E-20	DCC 1	77-05-24	.29	.04	--	1.9	<.1
		78-08-30	--	--	--	--	--
		79-08-02	--	--	--	--	--
		82-01-28	--	--	--	--	--
01S-10E-21	ACB 1	77-05-24	.40	.30	.03	.80	<.1
		79-08-03	--	--	--	--	--
		79-08-03	--	--	--	--	--
		82-01-28	--	--	--	--	--

Table 35.-- Concentration of common constituents, selected trace elements, and physical properties of water from wells and springs --Continued
 [W, well; S, spring; DEG C, degrees Celsius; UMHOS, micromhos per centimeter at 25 degrees Celsius; MG/L, milligrams per liter; UG/L, micrograms per liter; AC-FT, acre-feet]

STATION	NUMBER	DATE OF SAMPLE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO-GEN AMMONIA DIS-SOLVED (MG/L AS NH4)	PHOS-PHORUS TOTAL (MG/L AS P04)	NITRO-GEN, TOTAL (MG/L AS N03)	MERCURY DIS-SOLVED (UG/L AS HG)
01S-10E-21	BCC 1	77-09-13	--	--	--	--	--	--
		78-11-07	.21	--	.00	--	12	--
01S-10E-21	CCC 1	79-08-02	--	--	--	--	--	--
		82-01-28	--	--	--	--	--	--
01S-10E-21	DBB 1	82-01-28	--	--	--	--	--	--
01S-10E-21	DBC 2	77-05-24	--	--	--	--	--	--
		78-07-19	.23	--	.01	--	.71	<.1
		79-08-03	--	--	--	--	--	--
		82-01-28	--	--	--	--	--	--
01S-10E-21	DCA 1	77-05-24	--	--	--	--	--	--
		79-08-03	.48	.27	.33	.06	1.0	<.1
		82-01-28	--	--	--	--	--	--
01S-10E-21	DCD 1	77-05-24	--	--	--	--	--	--
		78-07-19	.49	--	.21	--	3.8	--
		79-08-03	--	--	--	--	--	--
		82-01-28	--	--	--	--	--	--
01S-10E-21	DCD 2	77-05-24	--	--	--	--	--	--
		78-07-19	.84	--	.27	--	2.6	<.1
		79-08-03	--	--	--	--	--	--
		82-01-28	--	--	--	--	--	--
01S-10E-22	ADA 1	77-05-26	--	--	--	--	--	--
01S-10E-22	DDD 1	77-05-24	--	--	--	--	--	--
		78-07-19	.41	--	.17	--	1.3	<.1
		79-08-01	--	--	--	--	--	--
		82-01-28	--	--	--	--	--	--
01S-10E-23	CCC 1	77-05-25	--	--	--	--	--	--
		79-08-01	--	--	--	--	--	--
		82-01-28	--	--	--	--	--	--
01S-10E-25	BAB 1	78-01-05	--	--	--	--	--	--
01S-10E-27	AAA 1	78-08-30	--	--	--	--	.93	<.1
01S-10E-34	DDA 1	77-08-16	.44	--	.00	--	--	--
01S-10E-35	BAA 1	78-01-04	--	--	--	--	--	--
01S-11E-04	CCD 1	77-08-19	--	--	--	--	--	--
01S-11E-07	ACC 1	78-01-04	--	--	--	--	--	--
01S-11E-17	ACB 1	77-08-18	--	--	--	--	--	--
01S-11E-18	DBD 1	77-08-19	--	--	--	--	--	--
02S-10E-06	DDD 1	78-01-05	--	--	--	--	--	--

Table 36.--Once daily reading of surface-mine pond stage, in feet,
at Latitude 34°26'00", Longitude 096°12'18"

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	9.93	10.09	10.06	10.26	10.36	10.41	10.51	10.52	10.30	10.31
2	---	---	9.92	10.09	10.04	10.29	10.35	10.41	10.62	10.50	10.28	10.40
3	---	---	9.92	10.09	10.03	10.29	10.35	10.38	10.66	10.47	10.24	10.38
4	---	---	9.91	10.08	10.01	10.41	10.36	10.36	10.64	10.60	10.26	10.37
5	---	---	9.91	10.07	10.00	10.41	10.35	10.35	10.71	10.59	10.24	10.37
6	---	---	9.91	10.07	9.99	10.40	10.34	10.33	10.73	10.57	10.22	10.36
7	---	---	9.92	10.07	9.99	10.40	10.32	10.31	10.71	10.55	10.29	10.34
8	---	---	10.26	10.06	10.00	10.39	10.30	10.34	10.70	10.59	10.25	10.31
9	---	---	10.28	10.06	10.01	10.39	10.29	10.34	10.69	10.57	10.23	10.29
10	---	---	10.26	10.06	10.08	10.39	10.29	10.56	10.68	10.56	10.21	10.27
11	---	---	10.25	10.05	10.07	10.39	10.29	10.54	10.66	10.55	10.19	10.24
12	---	---	10.25	10.04	10.06	10.38	10.29	10.52	10.65	10.53	10.19	10.28
13	---	---	10.24	10.03	10.04	10.38	10.30	10.50	10.63	10.49	10.17	10.27
14	---	---	10.24	10.03	10.04	10.38	10.29	10.48	10.60	10.47	10.15	10.27
15	---	---	10.24	10.02	10.03	10.37	10.28	10.48	10.63	10.46	10.12	10.24
16	---	---	10.23	10.02	10.03	10.37	10.28	10.49	10.75	10.42	10.20	10.21
17	---	---	10.24	10.01	10.02	10.37	10.27	10.48	10.74	10.40	10.31	10.19
18	---	---	10.24	10.01	10.02	10.36	10.27	10.48	10.71	10.37	10.28	10.16
19	---	---	10.22	10.01	10.02	10.36	10.33	10.47	10.69	10.36	10.25	10.15
20	---	---	10.22	10.06	10.01	10.35	10.32	10.44	10.68	10.34	10.24	10.14
21	---	---	10.18	10.06	10.02	10.34	10.31	10.41	10.67	10.32	10.23	10.11
22	---	---	10.18	10.06	10.01	10.33	10.36	10.39	10.65	10.28	10.22	10.10
23	---	---	10.17	10.05	10.00	10.32	10.44	10.38	10.63	10.26	10.21	10.09
24	---	9.97	10.16	10.05	10.00	10.30	10.42	10.55	10.61	10.21	10.20	10.08
25	---	9.96	10.15	10.05	10.00	10.29	10.41	10.54	10.59	10.19	10.18	10.07
26	---	9.96	10.14	10.05	9.99	10.28	10.40	10.55	10.58	10.16	10.26	10.06
27	---	9.95	10.13	10.04	9.99	10.27	10.39	10.53	10.55	10.14	10.45	10.06
28	---	9.95	10.12	10.04	10.22	10.26	10.38	10.51	10.53	10.38	10.44	10.09
29	---	9.94	10.11	10.04	---	10.40	10.44	10.50	10.51	10.38	10.43	10.07
30	---	9.93	10.10	10.03	---	10.38	10.43	10.57	10.50	10.35	10.38	10.05
31	---	---	10.10	10.03	---	10.37	---	10.55	---	10.31	10.34	---
MEAN	---	---	10.13	10.05	10.03	10.35	10.34	10.46	10.64	10.42	10.26	10.21
MAX	---	---	10.28	10.09	10.22	10.41	10.44	10.57	10.75	10.60	10.45	10.40
MIN	---	---	9.91	10.01	9.99	10.25	10.27	10.31	10.50	10.14	10.12	10.05

Water year October 1980 to September 1981

Table 36.--Once daily reading of surface-mine pond stage, in feet,
at Latitude 34°26'00", Longitude 096°12'18" --Continued

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.04	12.41	12.38	12.19	---	---	---	---	---	---	---	---
2	10.03	12.39	12.35	12.22	---	---	---	---	---	---	---	---
3	10.02	12.37	12.32	12.21	---	---	---	---	---	---	---	---
4	10.01	12.35	12.31	12.21	---	---	---	---	---	---	---	---
5	10.00	12.33	12.31	12.21	---	---	---	---	---	---	---	---
6	10.00	12.32	12.31	12.20	---	---	---	---	---	---	---	---
7	10.00	12.31	12.30	12.20	---	---	---	---	---	---	---	---
8	10.00	12.46	12.30	12.20	---	---	---	---	---	---	---	---
9	9.99	12.43	12.30	12.19	---	---	---	---	---	---	---	---
10	9.99	12.40	12.30	12.19	---	---	---	---	---	---	---	---
11	9.98	12.38	12.30	12.19	---	---	---	---	---	---	---	---
12	10.02	12.36	12.29	12.18	---	---	---	---	---	---	---	---
13	11.30	12.36	12.29	12.17	---	---	---	---	---	---	---	---
14	11.80	12.35	12.30	12.16	---	---	---	---	---	---	---	---
15	11.80	12.35	12.29	12.16	---	---	---	---	---	---	---	---
16	12.50	12.34	12.29	12.15	---	---	---	---	---	---	---	---
17	12.40	12.34	12.28	12.14	---	---	---	---	---	---	---	---
18	12.38	12.33	12.27	12.13	---	---	---	---	---	---	---	---
19	12.35	12.32	12.26	12.12	---	---	---	---	---	---	---	---
20	12.33	12.31	12.26	12.14	---	---	---	---	---	---	---	---
21	12.31	12.30	12.25	12.15	---	---	---	---	---	---	---	---
22	12.34	12.29	12.25	12.29	---	---	---	---	---	---	---	---
23	12.31	12.28	12.24	12.29	---	---	---	---	---	---	---	---
24	12.31	12.28	12.24	12.29	---	---	---	---	---	---	---	---
25	12.30	12.28	12.23	12.28	---	---	---	---	---	---	---	---
26	12.29	12.27	12.22	12.28	---	---	---	---	---	---	---	---
27	12.28	12.27	12.21	12.28	---	---	---	---	---	---	---	---
28	12.27	12.27	12.21	12.27	---	---	---	---	---	---	---	---
29	12.27	12.26	12.20	---	---	---	---	---	---	---	---	---
30	12.26	12.41	12.20	---	---	---	---	---	---	---	---	---
31	12.37	---	12.19	---	---	---	---	---	---	---	---	---
MEAN	11.36	12.34	12.27	---	---	---	---	---	---	---	---	---
MAX	12.50	12.46	12.38	---	---	---	---	---	---	---	---	---
MIN	9.98	12.26	12.19	---	---	---	---	---	---	---	---	---

Water year October 1981 to September 1982

Table 37.-- Selected chemical constituents and physical properties of water from strip-mine ponds

[ft, feet below water surface; °C, degrees Celsius; micromhos, micromhos per centimeter at 25° Celsius; mg/L, milligrams per liter; percent, percent saturation; ug/L, micrograms per liter]

Depth (ft)	Temperature (°C)	Specific Conductance (micromhos)	pH (units)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent)	Chloride (mg/L)	Sulfate (mg/L)	Iron (ug/L)	Manganese (ug/L)
LOCATION OF SAMPLING SITE: Latitude 34°23'53", Longitude 096°13'53", 02S-10E-11 BCB 2									
Date sampled: 7-20-77 Total depth of pond: 10 ft									
1	30.0	180	6.9	6.9	91.	-	-	-	-
4	28.0	180	6.9	6.2	78.	-	-	-	-
7	25.0	190	7.0	1.9	23.	-	-	-	-
10	20.5	240	7.0	2.1	23.	-	-	-	-
Date sampled: 8-7-79 Total depth of pond: 12 ft									
0.25	31.5	200	7.3	7.8	105.	-	-	-	-
1	31.5	-	-	7.6	103.	-	-	-	-
2	31.0	-	-	7.4	99.	-	-	-	-
3	30.5	200	7.2	7.1	93.	3	33	10	20
4	28.5	-	-	4.6	58.	-	-	-	-
5	27.5	-	-	2.3	29.	-	-	-	-
6	26.0	210	7.1	0.2	2.	-	-	-	-
7	24.5	-	-	0.1	1.	-	-	-	-
8	23.0	-	-	0.1	1.	-	-	-	-
9	23.0	270	7.0	0.1	1.	3	28	80	1,990
10	23.0	-	-	0.1	1.	-	-	-	-
11	23.0	400	6.3	0.1	1.	-	-	-	-

Table 37.-- Selected chemical constituents and physical properties of water from strip-mine ponds--Continued
 [ft, feet below water surface; °C, degrees Celsius; micromhos, micromhos per centimeter at 25° Celsius;
 mg/L, milligrams per liter; percent, percent saturation; ug/L, micrograms per liter]

Depth (ft)	Temperature (°C)	Specific Conductance (micromhos)	pH (units)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent)	Chloride (mg/L)	Sulfate (mg/L)	Iron (ug/L)	Manganese (ug/L)
LOCATION OF SAMPLING SITE: Latitude 34°23'58", Longitude 096°13'57", 02S-10E-11 BCB 1									
Date sampled: 7-20-77 Total depth of pond: 16.5 ft									
1	30.0	180	7.4	6.9	91.	-	-	-	-
4	28.5	180	7.1	6.4	81.	3	40	10	25
7	23.5	160	7.2	2.0	23.	-	-	-	-
10	18.0	180	7.2	2.1	22.	-	-	-	-
13	16.0	200	7.3	2.1	21.	-	-	-	-
16	15.0	220	7.3	2.2	22.	4	30	2,040	1,550
Date sampled: 8-7-79 Total depth of pond: 18.5 ft									
0.25	32.0	200	7.5	7.6	103.	-	-	-	-
1	32.0	-	-	7.4	100.	-	-	-	-
2	31.0	-	-	7.2	96.	-	-	-	-
3	29.0	210	7.4	6.3	81.	4	11	<10	10
4	28.0	-	-	4.6	58.	-	-	-	-
5	27.0	-	-	1.6	20.	-	-	-	-
6	24.0	225	7.1	0.1	1.	-	-	-	-
7	22.0	-	-	0.1	1.	-	-	-	-
8	20.5	-	-	0.1	1.	-	-	-	-
9	19.0	250	6.8	0.1	1.	4	39	1,310	1,740
10	18.0	-	-	0.1	1.	-	-	-	-
11	16.5	-	-	0.1	1.	-	-	-	-
12	15.0	360	6.7	0.1	1.	-	-	-	-
13	15.0	-	-	0.1	1.	-	-	-	-
14	14.5	-	-	0.1	1.	-	-	-	-
15	14.5	390	6.8	0.1	1.	6	84	3,600	3,780
16	14.0	-	-	0.1	1.	-	-	-	-
17	14.0	-	-	0.1	1.	-	-	-	-
18	15.0	400	6.6	0.1	1.	-	-	-	-

Table 37.-- Selected chemical constituents and physical properties of water from strip-mine ponds--Continued
 [ft, feet below water surface; °C, degrees Celsius; micromhos, micromhos per centimeter at 25° Celsius; mg/L, milligrams per liter; percent, percent saturation; ug/L, micrograms per liter]

Depth (ft)	Temperature (°C)	Specific Conductance (micromhos)	pH (units)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent)	Chloride (mg/L)	Sulfate (mg/L)	Iron (ug/L)	Manganese (ug/L)
LOCATION OF SAMPLING SITE: Latitude 34°28'07", Longitude 096°13'33", 01S-10E-14 CAB 1									
Date sampled: 7-21-77 Total depth of pond: 17.5 ft									
1	28.5	510	8.3	7.3	92.	-	-	-	-
5	28.5	500	8.2	7.5	95.	6	144	20	10
8	28.0	500	-	7.6	96.	-	-	-	-
11	28.0	500	8.3	7.8	99.	-	-	-	-
14	23.0	460	-	3.1	36.	-	-	-	-
17	18.5	480	7.3	4.4	46.	6	128	10	180
LOCATION OF SAMPLING SITE: Latitude 34°28'11", Longitude 096°13'33", 01S-10E-14 BDC 1									
Date sampled: 7-21-77 Total depth of pond: 27 ft									
1	28.5	510	-	7.2	91.	-	-	-	-
5	28.5	510	-	7.1	90.	-	-	-	-
10	28.0	500	-	6.7	85.	-	-	-	-
15	21.0	430	-	2.4	27.	-	-	-	-
20	16.0	460	-	2.2	22.	-	-	-	-
26	14.5	490	-	2.4	23.	-	-	-	-

Table 37.-- Selected chemical constituents and physical properties of water from strip-mine ponds--Continued
 [ft, feet below water surface; °C, degrees Celsius; micromhos, micromhos per centimeter at 25° Celsius;
 mg/L, milligrams per liter; percent, percent saturation; ug/L, micrograms per liter]

Depth (ft)	Temperature (°C)	Specific Conductance (micromhos)	pH (units)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent)	Chloride (mg/L)	Sulfate (mg/L)	Iron (ug/L)	Manganese (ug/L)
1	29.5	120	7.6	6.8	88.	-	-	-	-
4	29.0	120	7.5	6.7	86.	2	19	30	15
7	29.0	120	7.2	6.5	83.	-	-	-	-
10	25.5	110	7.1	3.3	40.	-	-	-	-
13	20.5	110	7.2	1.9	21.	-	-	-	-
16	15.0	150	7.3	2.0	20.	-	-	-	-
19	14.0	150	7.3	2.2	21.	2	13	650	1,675
22	13.5	160	7.4	2.4	23.	-	-	-	-

LOCATION OF SAMPLING SITE: Latitude 34° 31' 06", Longitude 096° 13' 38", 01N-10E-35 BBD 1
 Date sampled: 7-20-77 Total depth of pond: 23 ft

Table 37.-- Selected chemical constituents and physical properties of water from strip-mine ponds--Continued
 [ft, feet below water surface; °C, degrees Celsius; micromhos, micromhos per centimeter at 25° Celsius;
 mg/L, milligrams per liter; percent, percent saturation; ug/L, micrograms per liter]

Depth (ft)	Temperature (°C)	Specific Conductance (micromhos)	pH (units)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent)	Chloride (mg/L)	Sulfate (mg/L)	Iron (ug/L)	Manganese (ug/L)	Total depth of pond: 26 ft	
										Date sampled: 8-7-79	
0.25	30.0	140	7.6	7.3	96.	-	-	-	-		
2	30.0	-	-	7.3	96.	-	-	-	-		
3	30.0	140	7.4	7.3	96.	2	7.2	20	20		
4	30.0	-	-	7.2	95.	-	-	-	-		
5	30.0	-	-	7.2	95.	-	-	-	-		
6	29.5	140	7.2	7.2	94.	-	-	-	-		
7	29.5	-	-	7.0	91.	-	-	-	-		
8	29.0	-	-	6.8	87.	-	-	-	-		
9	29.0	140	7.0	6.4	82.	-	-	-	-		
10	28.5	-	-	5.3	67.	-	-	-	-		
11	27.5	-	-	4.7	59.	-	-	-	-		
12	26.0	140	6.9	1.5	18.	2	10	10	40		
13	25.0	-	-	0.8	10.	-	-	-	-		
14	22.5	-	-	0.2	2.	-	-	-	-		
15	20.5	140	6.9	0.2	2.	-	-	-	-		
17	18.5	-	-	0.1	1.	-	-	-	-		
18	17.0	145	6.7	0.1	1.	-	-	-	-		
19	16.0	-	-	0.1	1.	-	-	-	-		
20	14.0	160	6.4	0.2	2.	2	3.7	3,400	4,520		
23	13.0	-	-	0.2	2.	-	-	-	-		
24	13.0	190	6.4	0.2	2.	-	-	-	-		
25	13.0	-	-	0.2	2.	-	-	-	-		

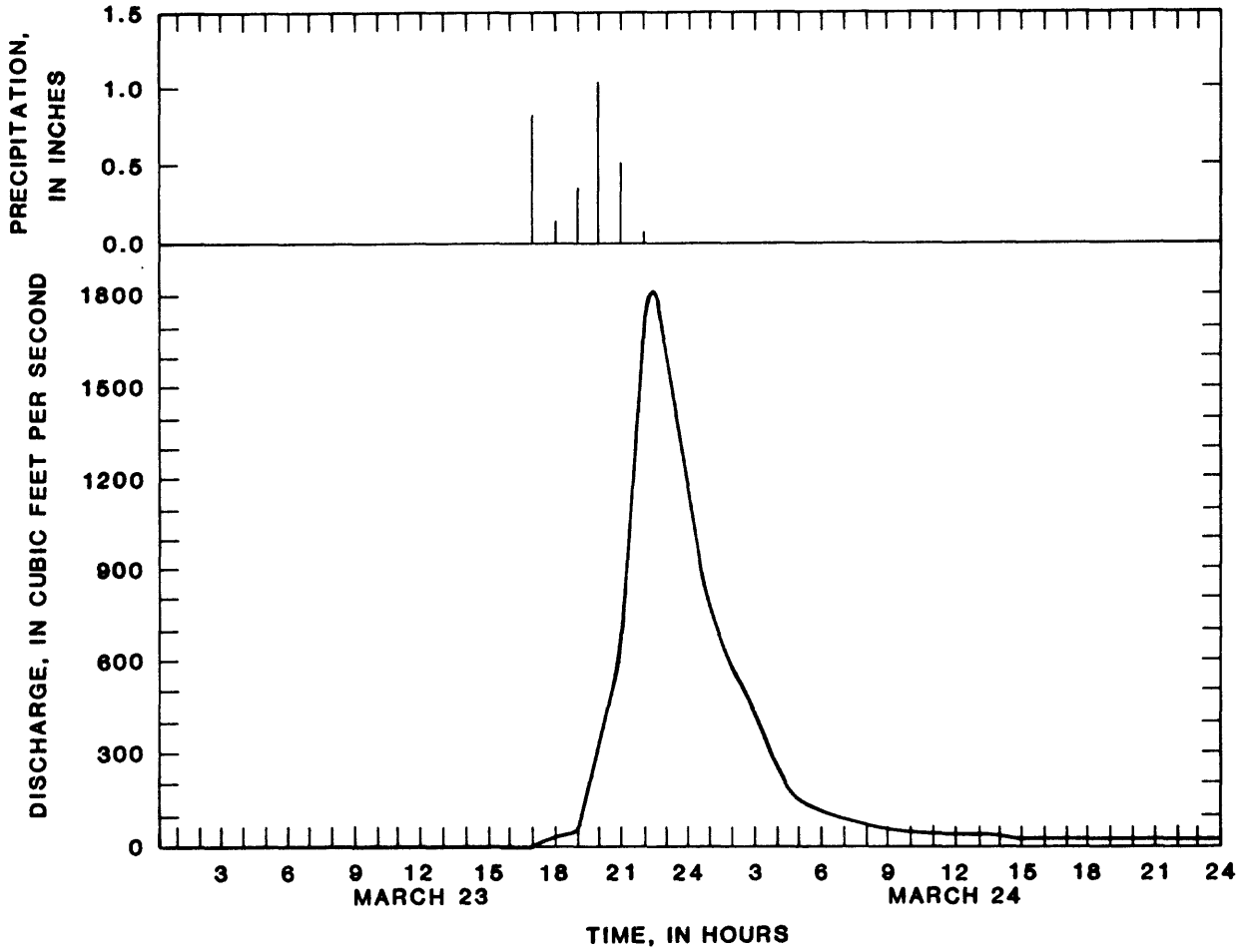


Figure 5.--Precipitation at latitude 34°28', longitude 96°13' and resulting stream discharge at Site 1, March 23-24, 1978.

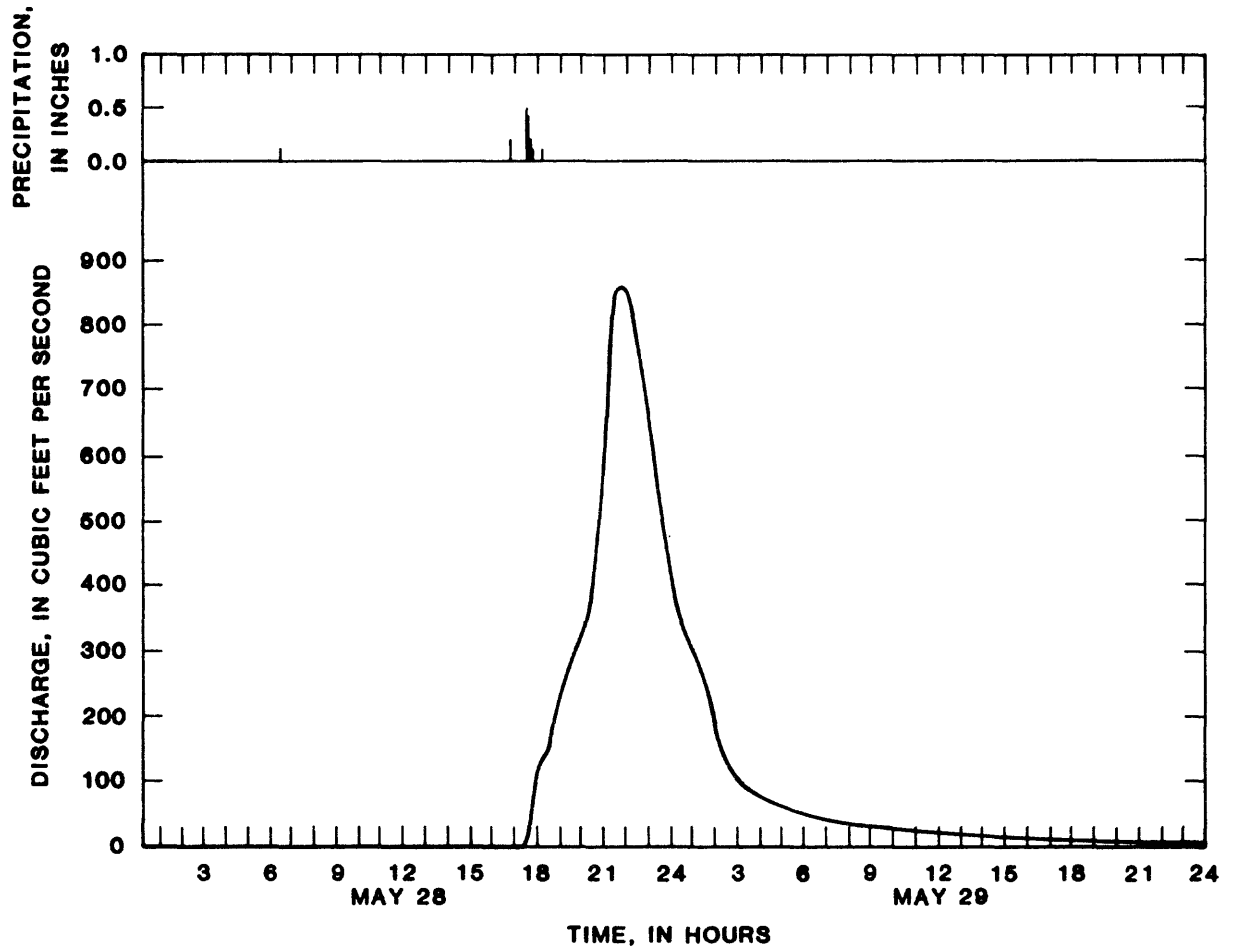


Figure 6.--Precipitation at Site 11 and resulting stream discharge at Site 1, May 28-29, 1979.

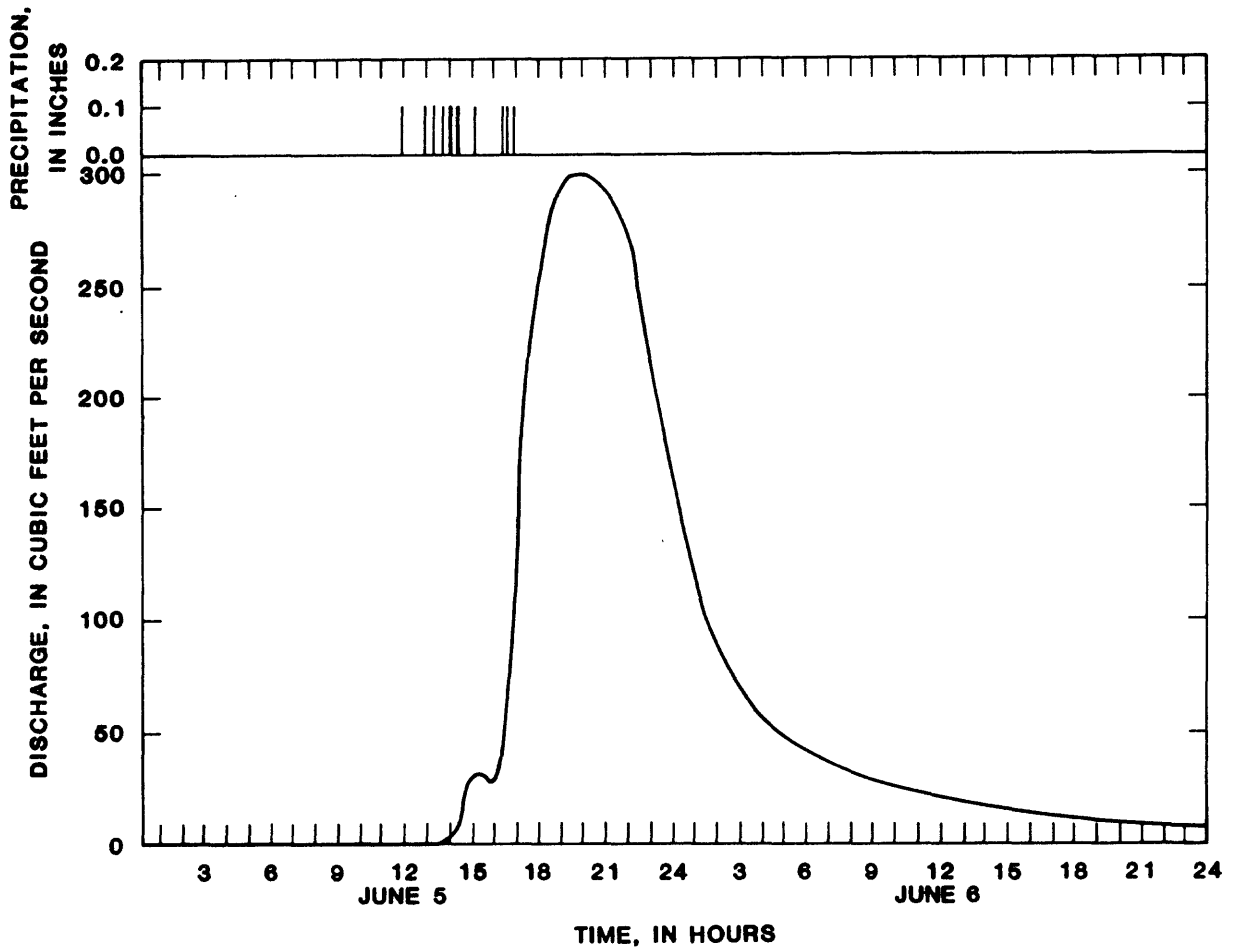


Figure 7.--Precipitation at Site 11 and resulting stream discharge at Site 1, June 5-6, 1979.

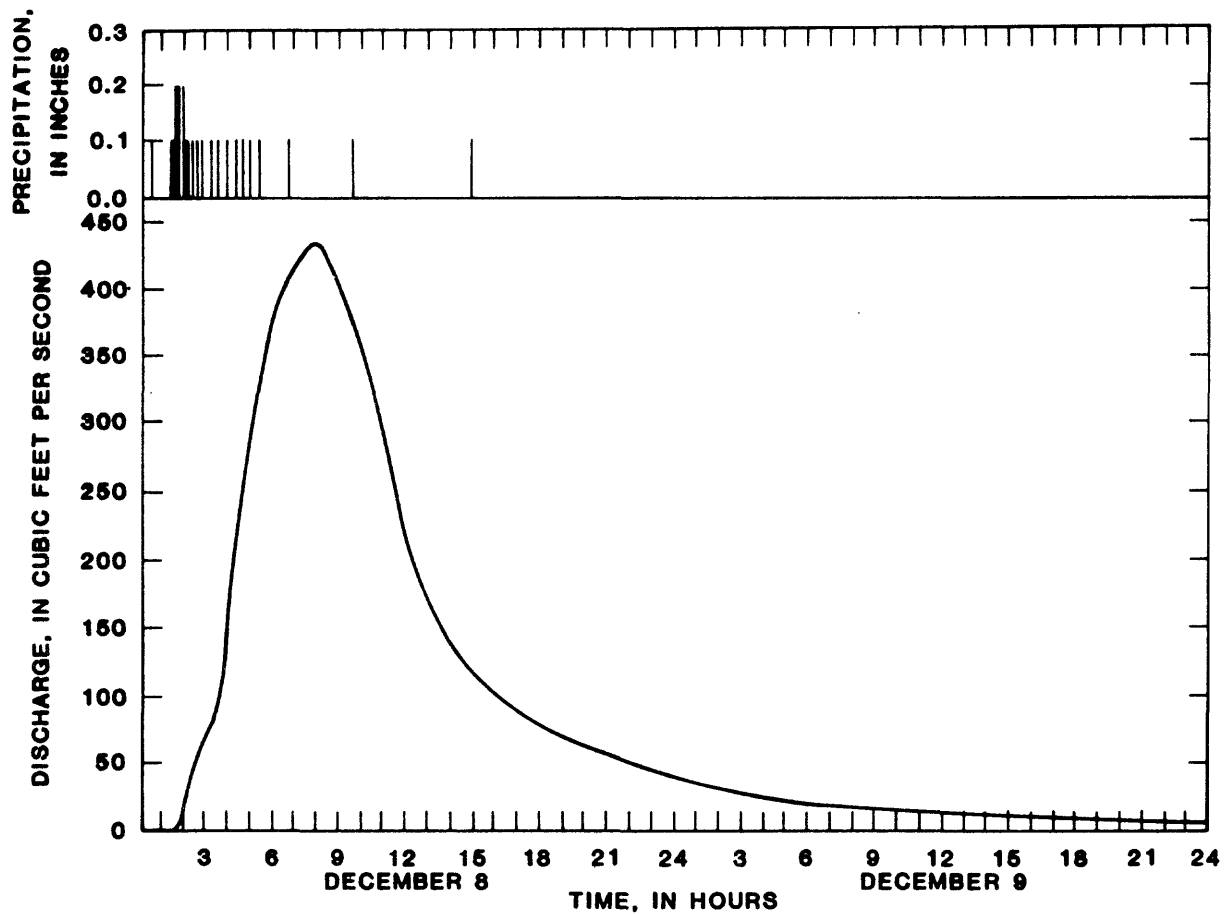


Figure 8.--Precipitation at Site 11 and resulting stream discharge at Site 1, December 8-9, 1980.

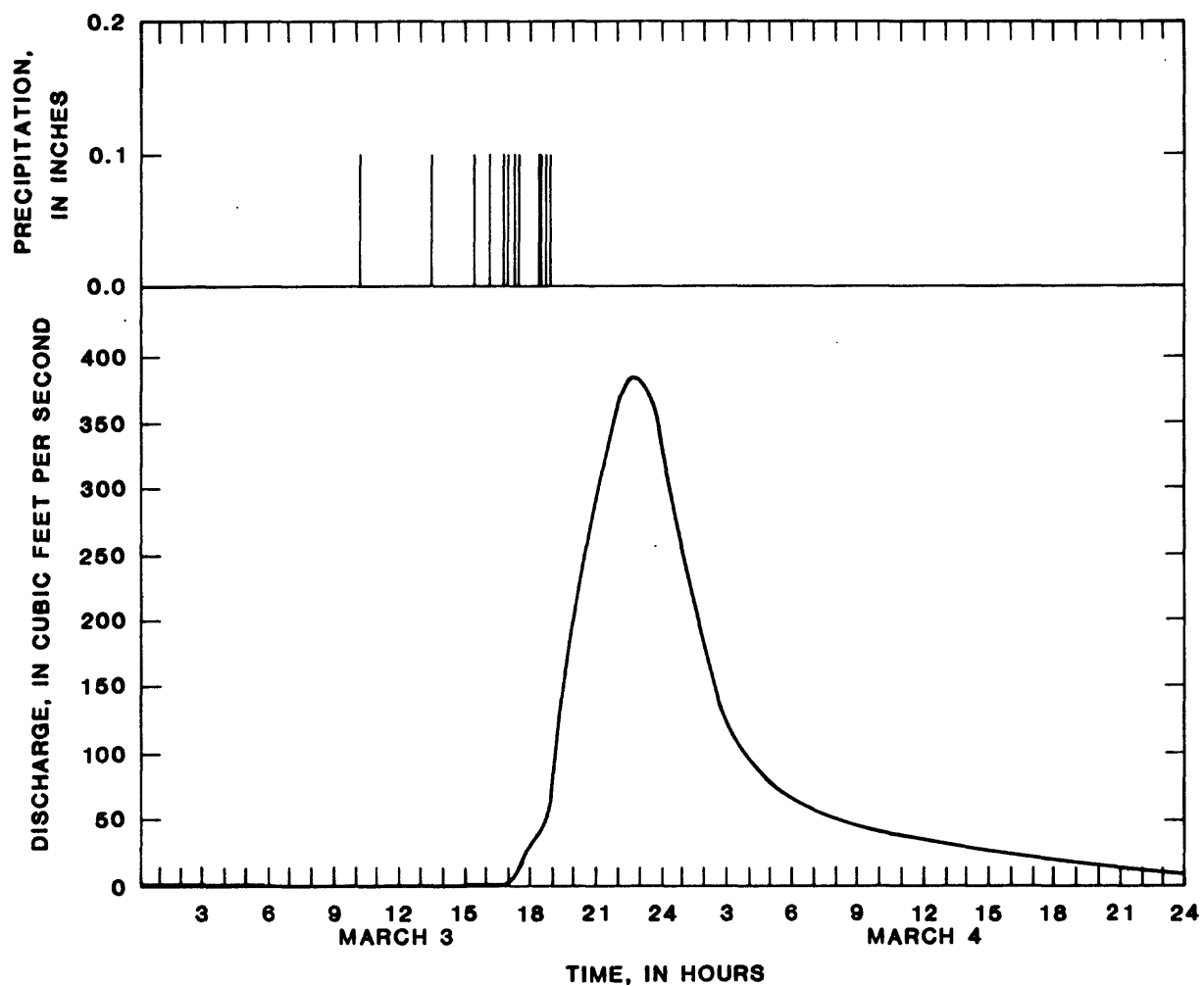


Figure 9.--Precipitation at Site 11 and resulting stream discharge at Site 1, March 3-4, 1981.

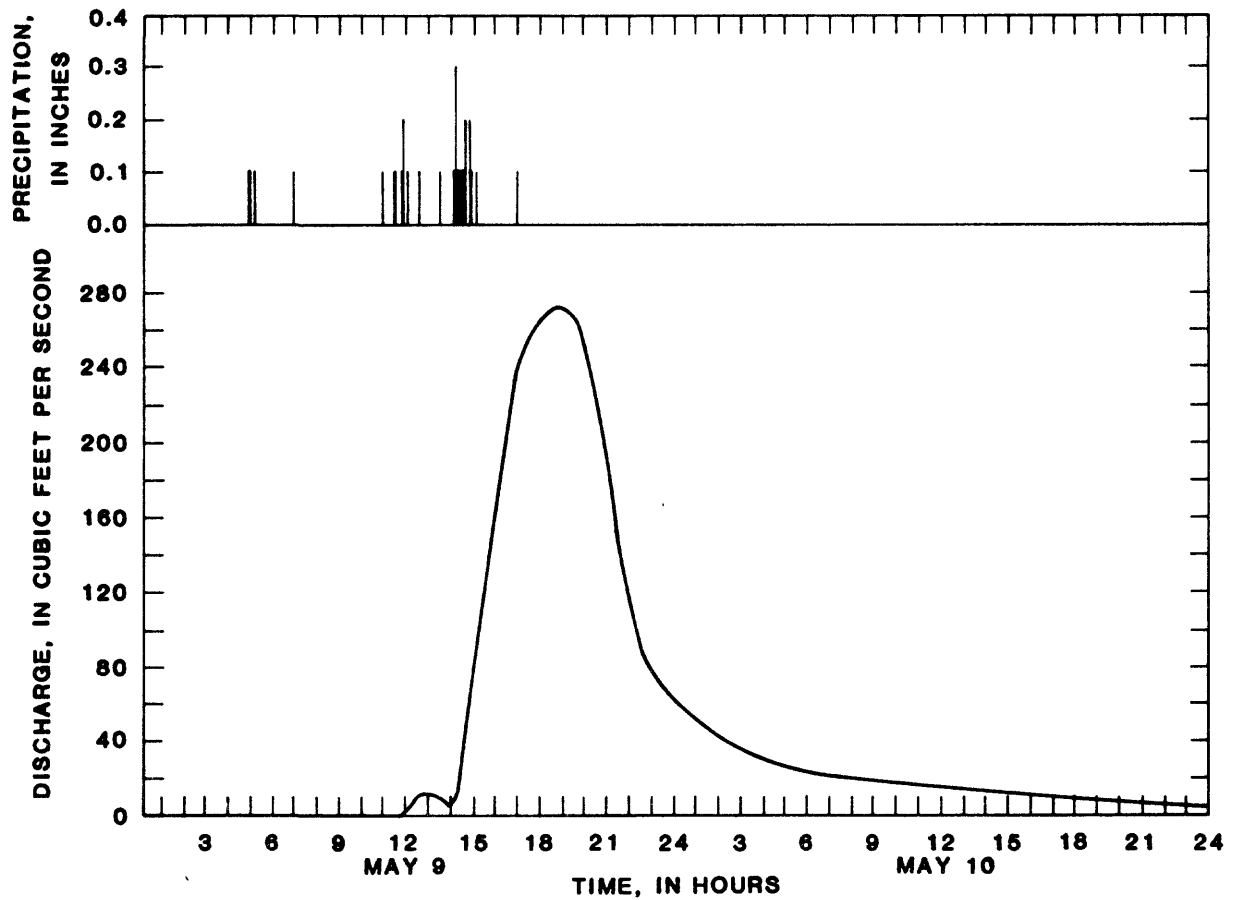


Figure 10.--Precipitation at Site 11 and resulting stream discharge at Site 1, May 9-10, 1981.

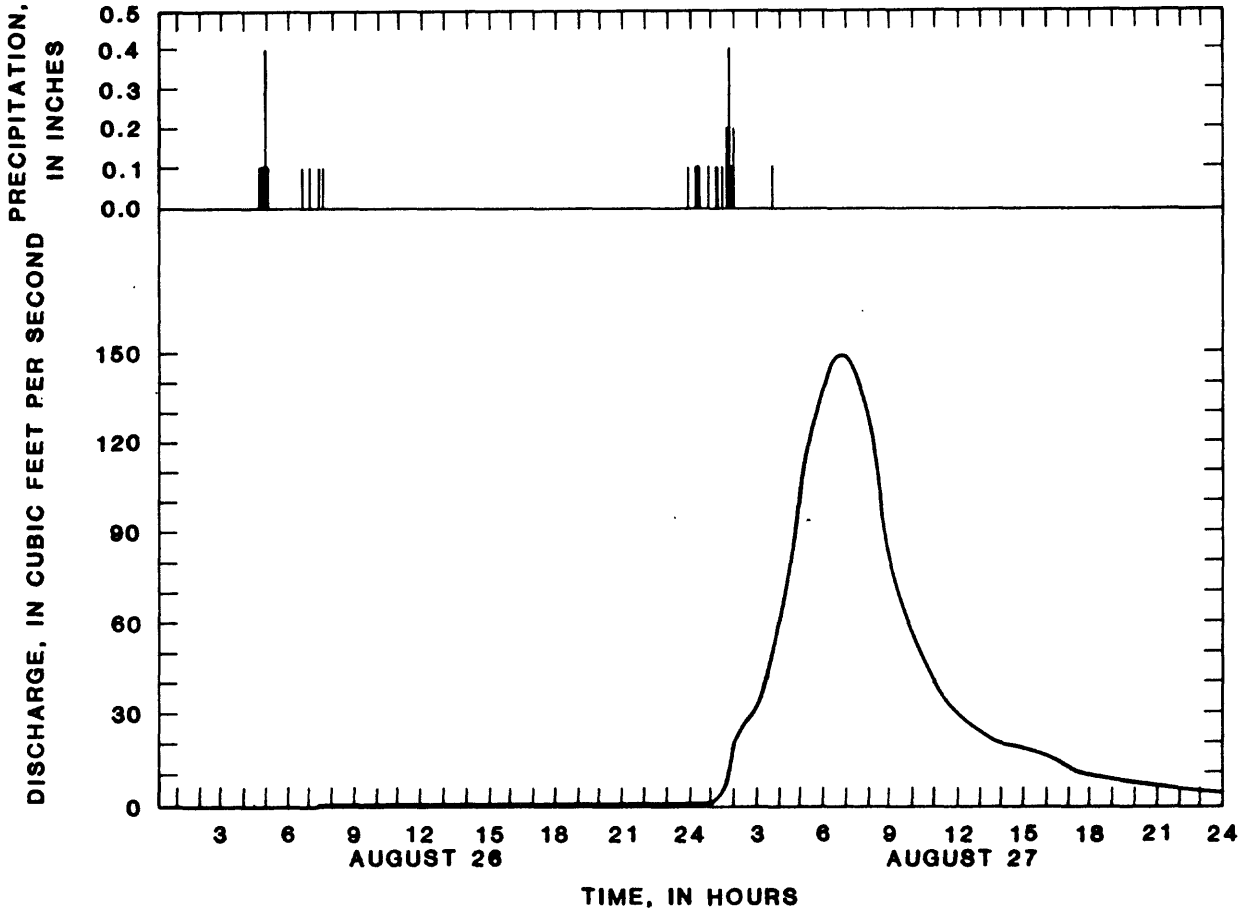


Figure 11.--Precipitation at Site 11 and resulting stream discharge at Site 1, August 26-27, 1981.

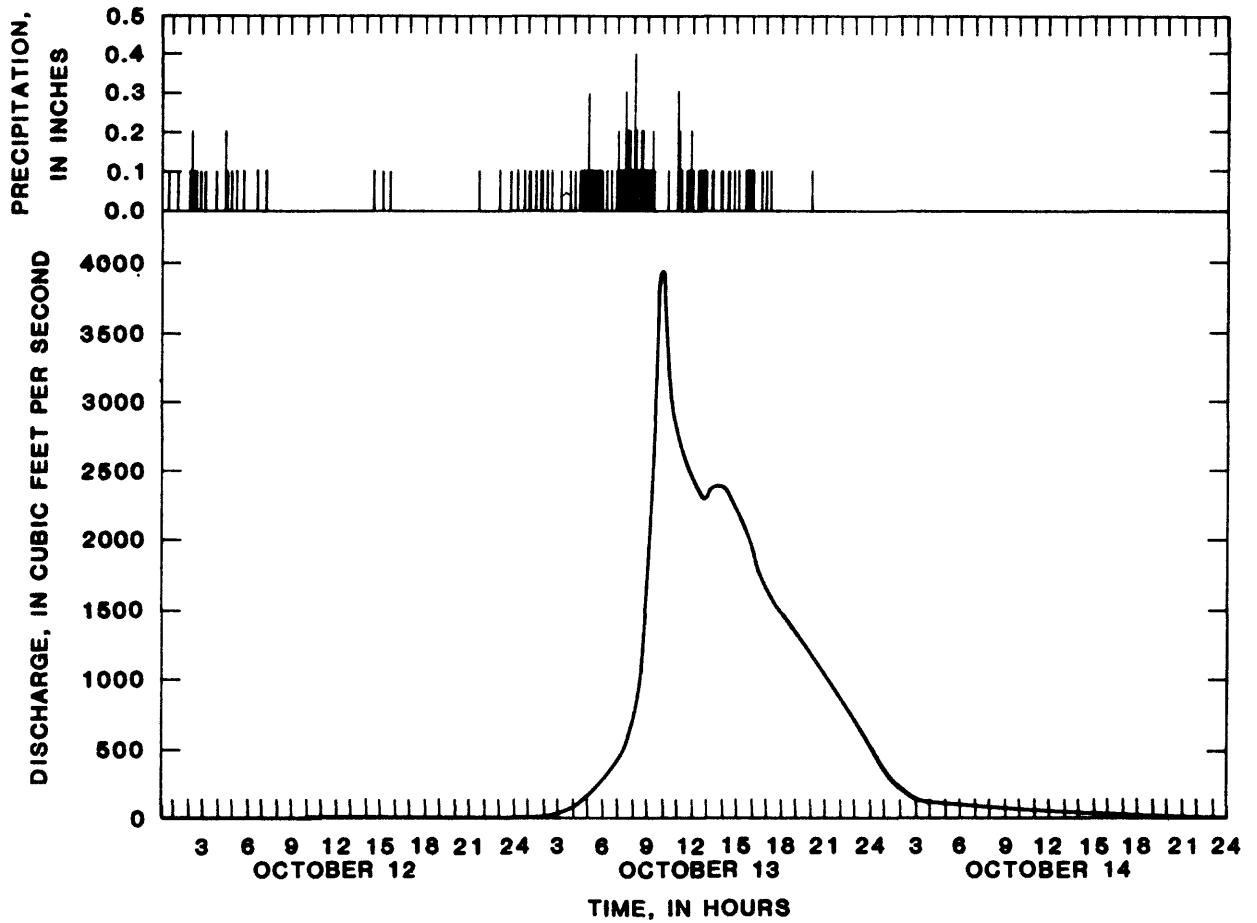


Figure 12.--Precipitation at Site 11 and resulting stream discharge at Site 1, October 12-14, 1981.