HYDROLOGIC DATA FROM THE INTEGRATED-LAKE WATERSHED ACIDIFICATION STUDY IN THE WEST-CENTRAL ADIRONDACK MOUNTAINS, NEW YORK--OCTOBER 1977 THROUGH JANUARY 1982

By Norman E. Peters, Peter S. Murdoch, and Frank N. Dalton

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DONALD PAUL HODEL, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

For additional information write to:

District Chief
U.S. Geological Survey
P.O. Box 1669
Albany, New York 12201
(518) 472-3107

Copies of this report may be purchased from:

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CONVERSION FACTORS AND ABBREVIATIONS

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

Multiply inch-pound units	By	To obtain SI units
	Length	
inch (in.)	25.4	millimeter (mm)
	0.0254	meter (m)
foot (ft)	0.3048	meter (m)
mile (mi)	1.609	kilometer (km)
	Area	
square mile (mi^2)	2.590	square kilometer (km^2)
	Volume	
cubic foot (ft^3)	28.32	cubic decimeter (dm^3)
	0.02832	cubic meter (m^3)
	Flow	
cubic foot per second (ft^3/s)	28.32	liter per second (L/s)
	28.32	cubic decimeter per second (dm^3/s)
	0.02832	cubic meter per second (m^3/s)
degrees Fahrenheit (°F)	°C = 5/9 (°F-32)	degrees Celsius (°C)
micromho	1.0	microsiemens

Other abbreviations used in this report:

mg/L, milligram per liter
µg/L, microgram per liter
µmho/cm at 25°C, micromhos per centimeter at 25° Celsius

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Abstract

Hydrologic data were collected from three forested headwater lake watersheds in Herkimer and Hamilton Counties, N.Y., from October 1977 through early January 1982 as part of the Integrated Lake-Watershed Acidification Study (ILWAS). ILWAS was established in 1977 to determine why these lakes differ in pH while receiving equal acidic atmospheric deposition. Woods Lake is acidic (pH ranges from 4 to 5), Panther Lake is neutral (pH ranges from 5 to 7.5), and Sagamore Lake is intermediate (pH ranges from 5 to 6). The data tabulated herein include discharge at the three lake outlets and discharge of a tributary to each lake; lake-water stage at each lake; lake-water quality, including total concentrations of zinc, iron, manganese, and lead in each lake outlet and in Lost Brook (a tributary to Sagamore Lake); ground-water stage from 29 wells and major ion concentrations of ground water from 22 of these wells; temperature of soil from three depths at one site in each watershed; soil-moisture tension at three depths at eight sites--four in the neutral-lake basin, three in the acidic-lake basin, and one in the intermediate-lake basin; and average snowpack depths and water equivalents at approximately 20 snow-course sites in each basin for three sampling periods during the 1979-80 winter.

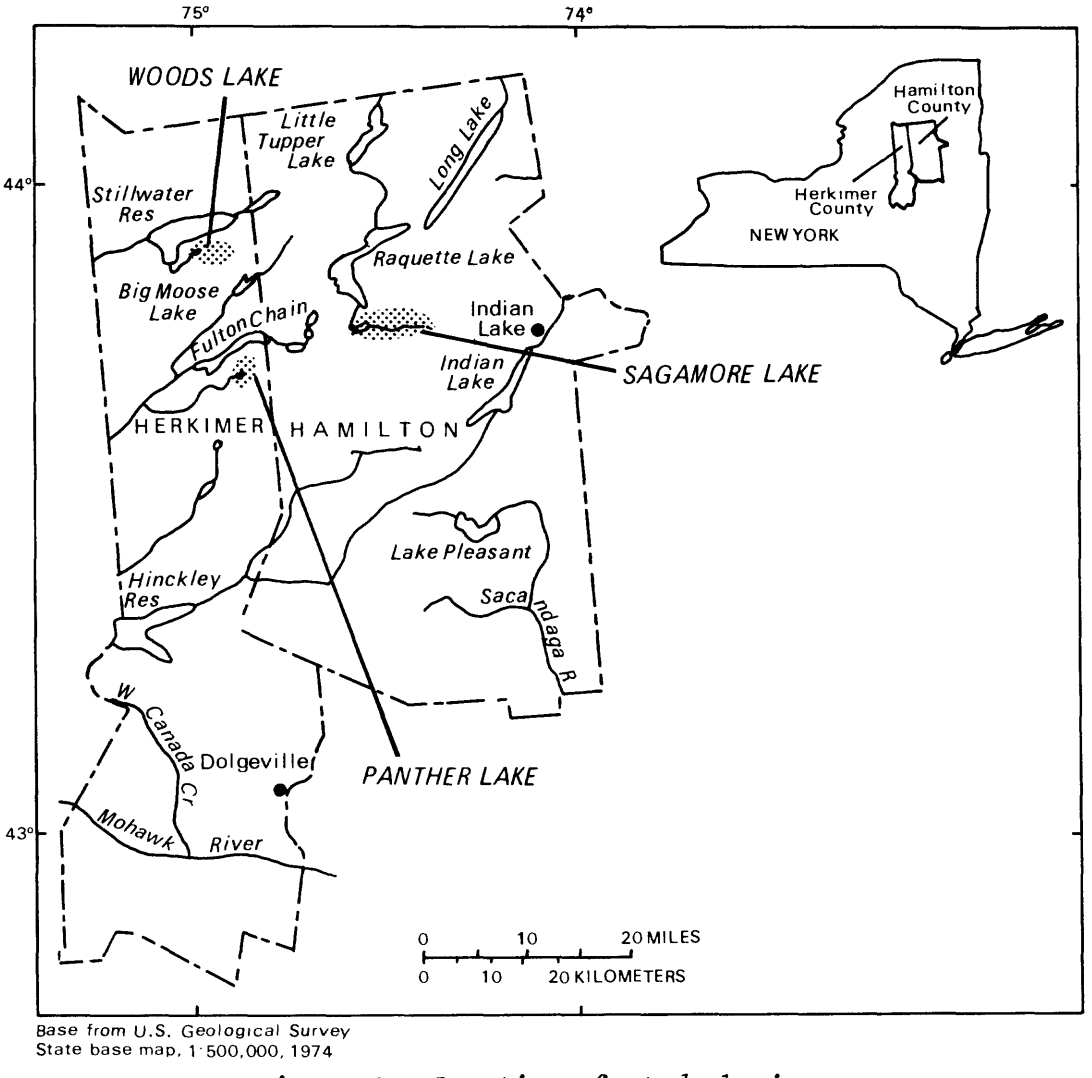
INTRODUCTION

The Integrated Lake-Watershed Acidification Study (ILWAS) began in 1977 to discover why three pristine headwater lake watersheds in the west-central Adirondack Mountains of New York (fig. 1) differ in lake pH values when all receive similar amounts of acidic (average pH = 4.1) precipitation. Woods Lake is acidic (pH ranges from 4 to 5), Panther Lake is neutral (pH ranged from 5 to 7), and Sagamore Lake is intermediate (pH ranged from 5 to 6). The study included researchers in a variety of scientific disciplines from several universities, government agencies, and a consulting firm. A complete overview of the project is given in Goldstein and others (1984).

Chemical and physical data were obtained in each basin by the U.S. Geological Survey from October 1977 through early January 1982.

Purpose and Scope

This report contains tables of data and describes the methods used for collection and analysis. Table 1 presents discharge of the largest tributary to each lake and the discharges at the three lake outlets, water stage of the three lakes, and the water quality at the outlets. Table 2 presents ground-



Base from U.S. Geological Survey
State base map, 1:500,000, 1974

Figure 1.--Location of study basins.

water levels from 29 wells in the surficial material of the watersheds and chemical quality of water from 22 of these wells. Table 3 presents soil-moisture and soil-temperature data from one site in each basin and additional soil-moisture data from five other sites in the basins. Table 4 presents the average snowpack depth and water equivalent from approximately 20 snow-course stations in each basin for three sample-collection periods during the 1979-80 winter.

Availability of Other Data

More specific data than those in this report--for example, discharge, gage-height, rating tables, datum, reference marks, and temperature of water--are on file in the Albany, N.Y., office of the U.S. Geological Survey. Most gaging-station records are available in computer-usable form. Inquiries on the availability of unpublished data or statistical analyses may be directed to: District Chief, U.S. Geological Survey, P.O. Box 1669, Albany, N.Y. 12201.

Acknowledgments

This study was conducted by the U.S. Geological Survey in cooperation with the University of Virginia and the Electric Power Research Institute under grant RP-1109-5.

Thanks are extended to the Adirondack League Club, owners of property in the Panther Lake basin, and to the International Paper Company, which owns most of the Woods Lake basin, for access to the sites, and to the Sagamore Institute and the State of New York (Adirondack Park Agency and Department of Environmental Conservation) for access to and equipment installation in Sagamore Lake and adjacent lands.

Equipment inspections and observations were made by technicians and observers from the Sagamore Institute, the University of Virginia field station at Sagamore, and the Rensselaer Polytechnic Institute field station in Big Moose.

SURFACE WATER

Surface-water data for nine stations representing the three lakes, the main tributary to each, and the three lake outlets are given in tables 1A through 1C. The types of data given for each station are as follows:

Table	Station name	Type of data: Discharge	Stage	Water Quality
1A	1. Panther Lake tributary near Old Forge	X	--	--
	2. Panther Lake	--	X	--
	3. Panther Lake outlet	X	--	X
1B	1. Lost Brook near Raquette Lake	X	--	X
	2. Sagamore Lake near Raquette Lake	--	X	--
	3. Sagamore Lake outlet	X	--	X
1C	1. Woods Lake tributary near Big Moose	X	--	--
	2. Woods Lake	--	X	--
	3. Woods Lake outlet	X	--	X

Organization of Data

A description of each gaging station is given, and daily and monthly figures are tabulated. For the three stations on the lake outlets (tables 1A-3, 1B-3, and 1C-3), the daily, monthly, and yearly discharges are included, and, for the Woods Lake stage-monitoring station (table 1C-2), daily mean gage heights are given. Records are compiled by water year, which begins on October 1 and ends on September 30.

The description of each gaging station gives the location, drainage area, period of record, type and history of gages, extremes of the discharge record, and general remarks, which include information pertaining to the accuracy of the discharge records and to conditions that affect the natural flow at the gaging station. The location of the gaging station and the drainage area are obtained from the most recent U.S. Geological Survey topographic maps available. Water-quality data from the three lake outlets and Lost Brook, the major tributary to Sagamore Lake, are listed chronologically after the discharge data. These tables include the date and time of collection, stream discharge at the time of collection, specific conductance, pH, and temperature, and concentrations of suspended solids, suspended volatile solids, and total recoverable iron, lead, manganese, and zinc.

Collection and Computation of Stage and Discharge Records

Water-stage and water-discharge data were collected at gaging stations. Other information, including weather records, factors affecting the stage-discharge relationship, and records on the functioning of field equipment, were used to supplement these data in determining the daily flow. Stage was obtained either from direct readings on a nonrecording gage, from a continuous graph of the fluctuations, or a tape punched at selected time intervals by a water-stage recorder. Discharge was measured with a current meter as explained in Rantz and others (1982a).

Rating tables giving the discharge for any stage at stream-gaging stations were prepared from stage-discharge curves. The daily mean discharge was computed from gage heights and rating tables. Monthly and yearly mean discharges were computed from the daily values. Where the stage-discharge relationship was subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge was computed by the shifting-control method. In this method, correction factors based on individual discharge measurements and notes by hydrologists and observers were used in applying the gage heights to the rating tables. Where the stage-discharge relationship for a station was temporarily changed by aquatic growth or debris on the control, the daily mean discharge was computed by a separate shifting-control method.

The stage-discharge relationship at most of the stream-gaging stations was affected by ice during winter. Discharge during this period was computed from the gage-height records and occasional winter discharge measurements. Consideration was given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge at other stations in the same or nearby basins.

Gage-height record at some gaging stations was incomplete or was questionable because of improperly operating recorders so that the record could not be used to compute daily discharge. The daily discharges for those stations were estimated from the range in recorded stage, prior and subsequent records, discharge measurements, weather records, and comparison with records from other stations in the same or nearby basins. A more complete description of methods for computing discharge is given in Rantz and others (1982b).

In table 1, the "EXTREMES" paragraph for each station gives minimum and maximum discharge for the period of record. Unless otherwise stated, the maximum discharge is the instantaneous maximum corresponding to the maximum gage height (stage) obtained by a water-stage recorder (graphic or digital). Where the date of the maximum gage height differs from that of the maximum discharge, the maximum gage height is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified.

Data from some of the stream-gaging stations include a daily mean discharge for each day as well as monthly and yearly summaries. In the monthly summary, the sum of the daily figures is cited in the line headed "TOTAL"; average flow, in cubic feet per second, is cited in the line headed "MEAN"; and the maximum and minimum daily discharges for the month are cited in the lines headed "MAX" and "MIN." Discharge for the month is also expressed in cubic feet per second per square mile (line headed "CFSM"), and in inches of runoff (line headed "IN."). The figures shown in the yearly summary are the appropriate values for the calendar years and water years corresponding to those shown in monthly summaries.

Footnotes are used to indicate periods for which the discharge was computed or was estimated by special methods where gage-height record was unavailable, stage-discharge relationship was affected by backwater from various sources, or other unusual conditions. Periods having no gage-height record, an indefinite stage-discharge relationship, or any unusual condition at the gage site are indicated. Days on which the stage-discharge relationship was affected by backwater from ice are also indicated. The methods used in computing discharge for various unusual conditions is explained in preceding paragraphs. For gaging stations on lakes, a description of the station and a table of observed gage heights are presented.

Accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relationship; (2) the frequency of discharge measurements, if the control was unstable; and (3) the accuracy of observations of gage height, measurements of discharge, and interpretations of all available data. The general degree of accuracy of the records is indicated in the "ACCURACY" paragraph in each station description. "Excellent" means that about 95 percent of the daily mean discharges were correct to within 5 percent of the actual discharge; "good" to within 10 percent, and "fair" to within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy. Most stations were affected by backwater from ice. Because ice forms during 3 months of each year, the estimates of discharge during that time were poor, and the accuracy of the annual rating was reduced.

Daily mean discharge is shown to the nearest hundreth of a cubic foot per second (ft^3/s) for discharges less than 1.0 ft^3/s, to tenths of a ft^3/s from 1.0 to 10 ft^3/s, and to whole numbers from 10 to 1,000 ft^3/s. The same rounding rules apply to discharge for partial-record stations.

Collection and Processing of Samples for Water-Quality Analysis

From October 1977 through May 1979, stream samples were collected in prerinsed polyethylene bottles from the centroid of flow directly above the gage at the outlet of each lake. Biweekly samples were collected by hand

throughout the period and more frequently with a stage-activated automatic sampler during high runoff from several storms and snowmelt. Stream temperature, specific conductance, and pH were determined at the time of sampling or when samples were retrieved from the automatic sampler. All samples for iron, lead, zinc, and manganese were acidified at the time of collection (or retrieval) to a pH less than 2.0 with ultrapure nitric acid. The samples were shipped to the U.S. Geological Survey Central Laboratory in Atlanta, Ga., for analysis. The analytical techniques are described in Skougstad and others (1979). Detection limits for iron, manganese, and zinc were 10 µg/L and for lead was 1 µg/L.

GROUND WATER

Water levels and chemical quality of ground water in the three lake basins are presented in table 2 (parts A, B, C, for Panther, Sagamore, and Woods Lake basins, respectively). Well installation and data collection began in the fall of 1979. At the end of the study in the fall of 1981, 16 wells had been installed in Panther Lake basin, six in Sagamore, and seven in Woods. Water-quality data are presented only for the wells constructed of polyvinyl chloride (PVC), which excludes four wells in Panther Lake basin, one in Sagamore Lake basin, and three in Woods Lake basin.

Organization of Data

Each well is identified by a 15-digit number that combines latitude and longitude with a sequential number. Each well is also identified by a local number. Wells in Panther Lake basin are numbered with the prefix PG; those in Sagamore basin with SG, and those in Woods basin with WG. Well records are given in the order of the local well number. Locations of the wells are shown in figures 2A, 2B, and 2C.

A detailed site description for each well is given in the water-level section. The site descriptions consist of seven paragraphs describing location, aquifer type, gage type, well characteristics, datum, period of record, and extremes. The "LOCATION" paragraph gives latitude, longitude, and distance from nearby landmarks. The "AQUIFER" paragraph describes age and type of material in which the well is screened. The "GAGE" paragraph describes the type of continuous recorder used on selected wells in Woods Lake basin (WG10 and WG30) and in Panther Lake basin (PG10, PG70, and PG71). The "WELL CHARACTERISTICS" paragraph describes the well construction. The "DATUM" paragraph describes the reference altitude, the height of the land-surface datum above the zero point on the staff gage at each lake. Land-surface datum in this study is a datum plane that is approximately at the land surface at each well. The height of the measuring point (MP) above or below the land-surface datum is also listed. The "PERIOD OF RECORD" paragraph refers to the time period during which data were collected. The "EXTREMES" paragraph tells the maximum and minimum water level recorded during the period of record.

A table of water-level values follows the header information for each well. Water levels in wells equipped with recording gages are reported for noon of each day if the equipment was operational; otherwise values are

electric-tape readings, as are those for the remaining wells. For the wells in the Panther Lake basin, an additional table of water levels is included. The water levels were measured at approximately 6-hour intervals during intensive sampling of storms between September 15, 1981 and October 15, 1981. For each well that consisted of polyvinyl chloride, chemical analyses of monthly water samples are also included. Analyses of samples collected during the intensive sampling period in the fall of 1981 at Panther Lake basin are also included in this table. The data are listed chronologically by date and time and include the water level at the time the sample was collected. Also included are specific conductance, and field- and air-equilibrated or laboratory pH, temperature, and concentrations of calcium, magnesium, sodium, potassium, alkalinity, sulfate, chloride, nitrate, and ammonium.

Collection and Computation of Water Levels

From August 1979 through January 1982, ground-water levels were read monthly at observation wells in the three watersheds if the water was not frozen. Depth of water was measured with an electric tape.

During July and August 1981, ground-water levels were measured weekly in Woods Lake and Panther Lake basins. Water levels were recorded continuously at two wells (WG10 and WG30) in Woods Lake basin and three wells (PG10, PG70, PG71) in Panther Lake basin by graphic recorders driven by special small-diameter float mechanisms. In addition, water levels at some wells in Panther Lake basin were measured every 6 hours during three rainstorms that occurred between September 15 and October 15, 1981. These latter measurements are given under the heading "intensive sampling" in table 2A.

Collection and Processing of Samples for Water-Quality Analysis

After the water-table measurements were made, the wells were purged with a peristaltic pump that was fitted with 5/8-inch-diameter Silastic[1] tubing. During this process, water temperature was read from a liquid-in-glass thermometer that was in contact with the pumped water.

After a volume of water equal to the original volume contained in the well had been pumped out, a sample was collected in a polyethylene bottle that had been prerinsed with the purged water. Specific conductance and pH were measured at the sampling site when possible, or shortly thereafter if field conditions such as below-freezing temperatures prohibited onsite measurement. Samples were processed by technicians from the University of Virginia at a field laboratory near Raquette Lake (fig. 1). Alkalinity was measured in the same field laboratory, generally within a month of sample collection; and pH was again measured on a sample aliquot that was equilibrated with atmospheric carbon dioxide by bubbling the sample with an aquarium-type air pump. The samples were stored at 4°C and subsequently shipped on ice to the University of Virginia, where the concentrations of major ions and nutrients were measured. Analytical methods for each constituent are listed in Galloway and others (1982).

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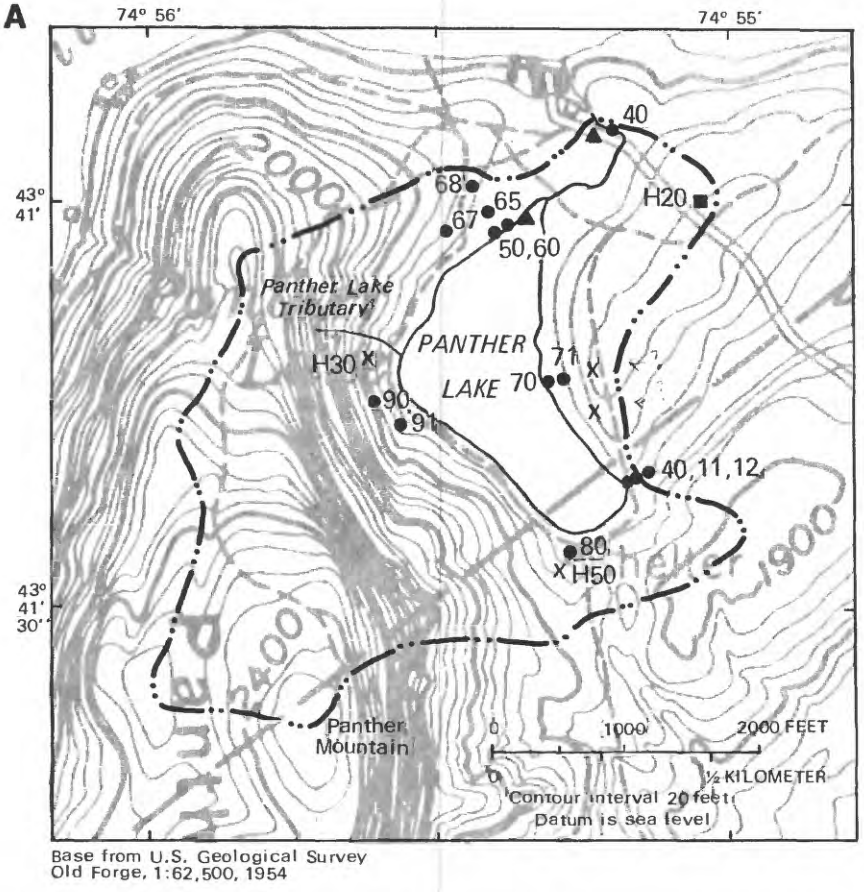
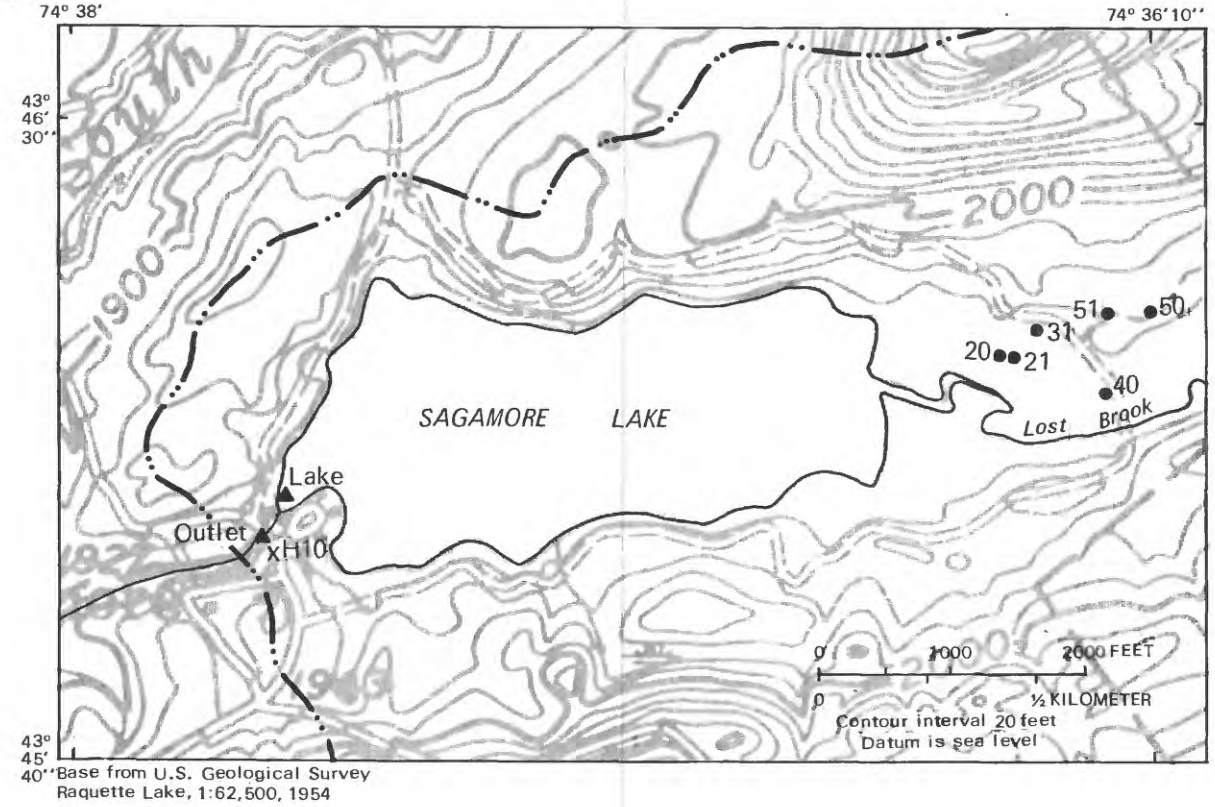
[1] Use of trade names in this report is for identification puposes only and does not constitute endorsement by the U.S. Geological Survey.



Base from U.S. Geological Survey
Old Forge, 1:62,500, 1954



Base from U.S. Geological Survey
Raquette Lake, 1:62,500, 1954

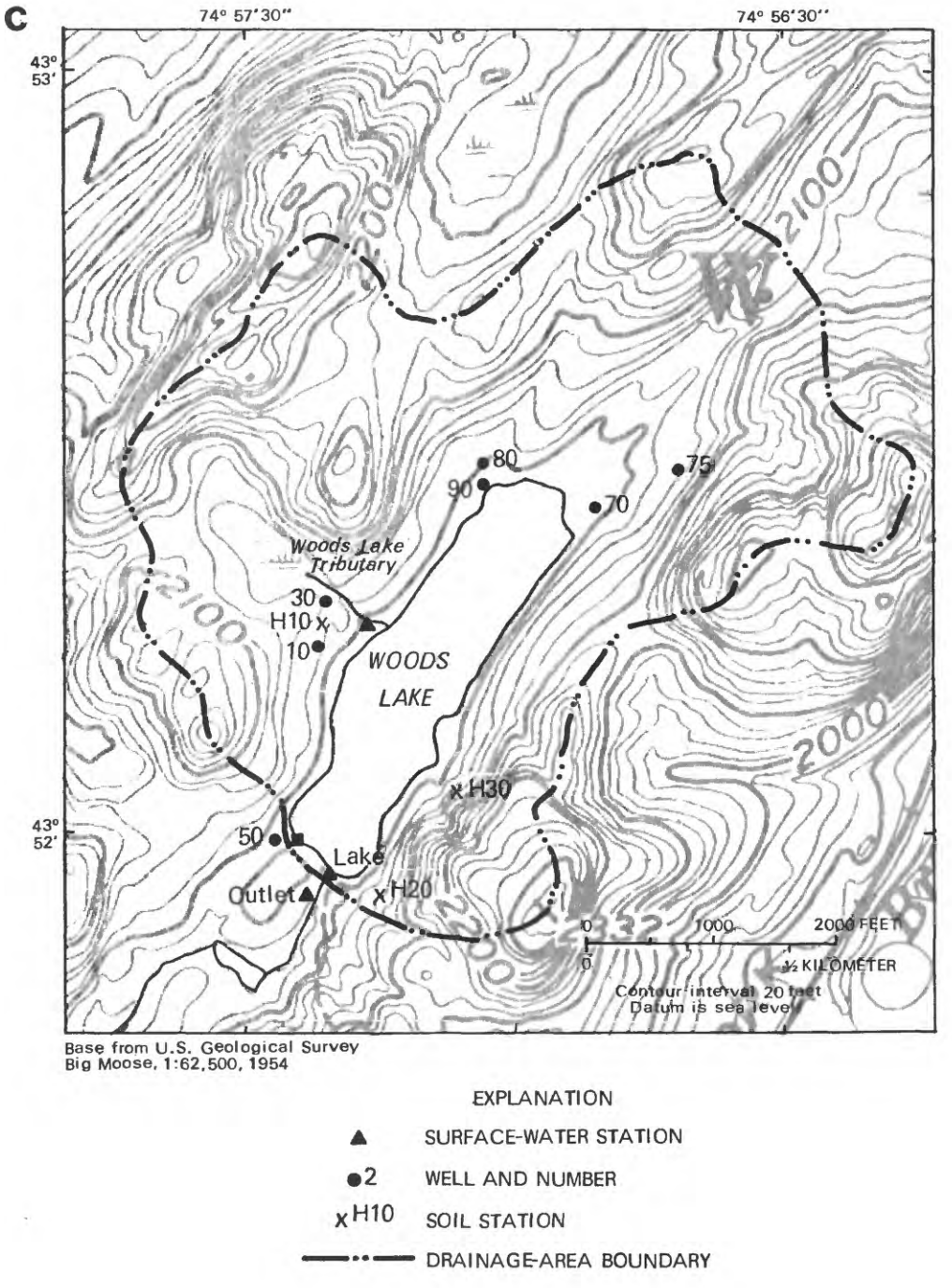


Figure 2.--Locations of data-collection stations: A. Panther Lake basin. B. Sagamore Lake basin. C. Woods Lake basin. (Basin locations are shown in fig. 1.)

SOIL MOISTURE AND SOIL TEMPERATURE

Soil-moisture and soil-temperature data from three stations in each of the lake basins and soil moisture from five additional stations are given in tables 3A, 3B, and 3C; sampling locations are shown in figures 2A, 2B, and 2C.

Organization of Data

A detailed site description is given for each station. The site descriptions consist of five paragraphs describing location, soil profile, datum, period of record, and remarks.

The location is given in latitude and longitude and is described in relation to other landmarks. The "SOIL-PROFILE" paragraph describes the thickness of the respective horizons. The "DATUM" paragraph gives the depth of the tensiometers and temperature probes used at each site. The "PERIOD OF RECORD" paragraph gives the dates of record. The "REMARKS" paragraph includes information on equipment installation.

Soil-moisture and soil-temperature data for each site consist of the date, hour, and value at three or four depths, represented by probes A, B, C, and D.

Collection and Computation of Data

Soil moisture and soil temperature at three depths were recorded at least weekly at one site in each watershed (four depths at one site). Soil-moisture tension was recorded monthly at several other sites in the three watesheds and approximately every 6 hours during two storms at three Panther Lake sites from September 15, 1981 to October 15, 1981.

Soil moisture was determined from soil-moisture tension recorded by pressure gages attached to a tensiometer. Tensiometers were filled with a 1:1 mixture of ethylene glycol and water to prevent freezing. Observations were made monthly by Geological Survey personnel and more frequently at stations PH20, WH20, and SH10 by technicians from Rensselaer Polytechnic Institute.

Soil temperature was derived from interrogation of thermistor temperature probes by a digital electronic thermometer.

Soil moisture is reported to the nearest 0.5 centibar of moisture tension derived from gage readings. Soil-temperature measurements are instantaneous and are reported to the nearest tenth of a degree Celsius.

SNOWPACK DEPTH AND WATER EQUIVALENT

Depth of snowpack and water equivalent on three dates in February-March 1980 are given for each of the three lake basins in tables 4A, 4B, and 4C.

Organization of Data

Table 4 gives the depth and water equivalent of snow averaged among three cores at each station along with the statistical means and standard deviations. Data for each collection period are given by basin. Also indicated is the type of land cover at each site; that is, deciduous forest, coniferous forest, or frozen lake surface.

Collection and Computation of Data

The snow-coring device consists of a depth-graduated, fiberglass tube fitted with a stainless-steel cutting head (2 5/8-inch inside diameter) for penetrating icy crusts in the pack. The water equivalent of snowpack is reported in inches and was determined from readings of a calibrated weighing scale. Average depth and water equivalent of snow were computed from three cores spaced 75 ft apart at each of about 20 stations per basin (figs. 3A, 3B, 3C, p. 12-13) in mid-February 1980, the end of February 1980, and the end of March 1980. Coring stations were selected in open areas, on the lake surface, in a coniferous forest, and in a deciduous forest. Data were not collected on the lakes during the sampling in late March because thickness and strength of ice were unpredictable. All data are reported to the nearest tenth of an inch.

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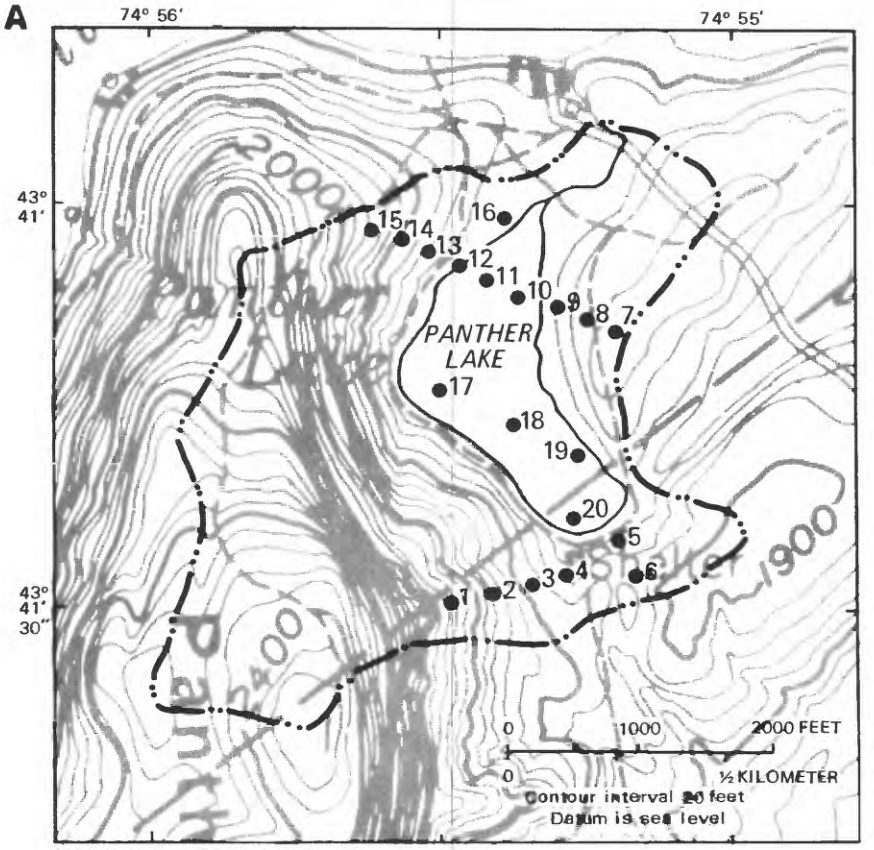
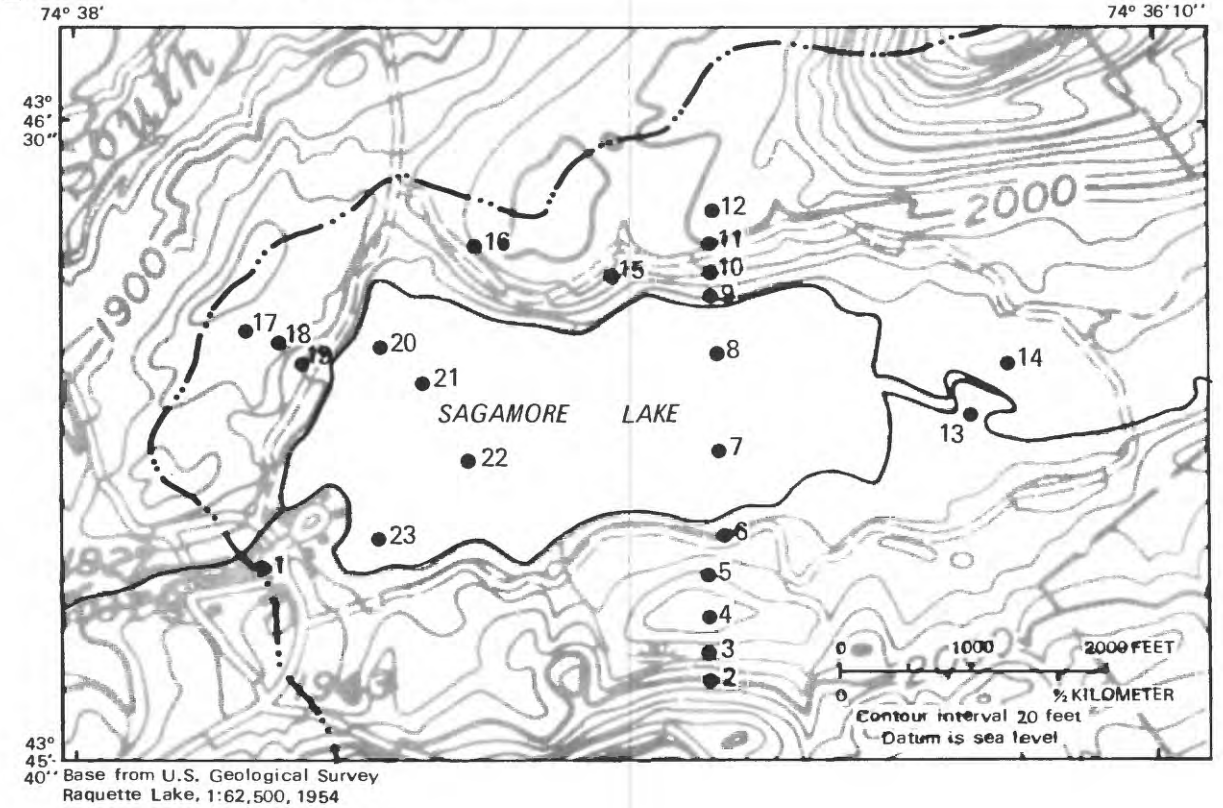


Base from U.S. Geological Survey
Old Forge, 1:62,500, 1954



Base from U.S. Geological Survey
Raquette Lake, 1:62,500, 1954

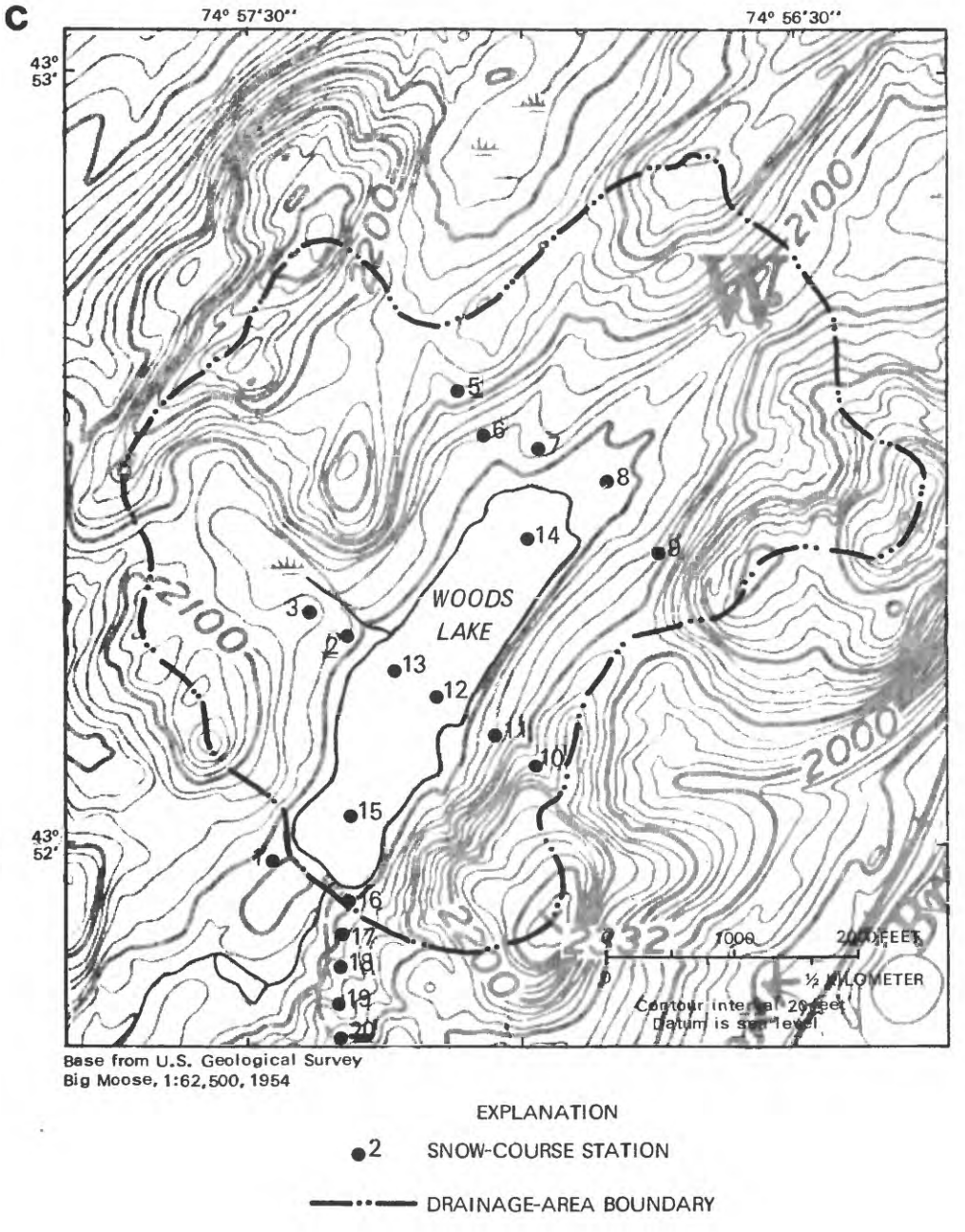


Figure 3.--Locations of snow-course stations: A. Panther Lake basin. B. Sagamore Lake basin. C. Woods Lake basin. (Basin locations are shown in fig. 1.)

TABLE 1

SURFACE-WATER STAGE, DISCHARGE, AND WATER QUALITY

A. Panther Lake near Old Forge:

1. Panther Lake tributary discharge. 15

2. Panther Lake water stage. 18

3. Panther Lake outlet discharge and water quality . 20

B. Sagamore Lake and Lost Brook near Raquette Lake:

1. Lost Brook discharge. 28

2. Sagamore Lake water stage 34

3. Sagamore Lake outlet discharge and water quality. 35

C. Woods Lake near Big Moose:

1. Woods Lake tributary discharge. 43

2. Woods Lake water stage. 46

3. Woods Lake outlet discharge and water quality . . 50

Table 1.--Surface-water stage, discharge, and quality.

A-1. PANTHER LAKE TRIBUTARY NEAR OLD FORGE, NY 04254372

LOCATION.--Lat 43°41'50", long 74°55'35", Herkimer County, Hydrologic Unit 04150101, on right bank at trail crossing 0.3 mi (0.5 km) southwest of Fishbarrier Dam at Panther Lake outlet, 200 ft (61 m) upstream from Panther Lake, and 3.2 mi (5.2 km) southeast of Old Forge.

DRAINAGE AREA.--0.07 mi (0.12 km).

PERIOD OF RECORD.--Intermittently from June 1980 through December 1981 (seasonal).

GAGE.--Digital recorder driven by s float in a 12-in. (30.5-cm) diameter well attached by a 1.25-in. (3.2-cm) diameter pipe to a Parshall flume. Outside reference a vertical, enameled staff gage (base gage) attached to the flume wall.

CONTROL.--Galvanized Parshall flume [12-in. (30.5-cm) throat x 18 in. (45.7 cm) deep].

DISCHARGE MEASUREMENTS.--None.

EXTREMES.--Maximum discharge, 6.55 ft /s (0.18 m /s) October 28, 1981, water stage, 1.38 ft (0.42 m); no flow many days.

ACCURACY.--Prior to July 29, 1981, records questionable; good thereafter.

REMARKS.--Lowest recordable flow at water stage from 0.04 to 0.05 ft because intake was that distance above flume floor; corresponding discharge 0.04 ft /s (0.001 m /s). No flow determined during periodic site inspections. Records seasonal because stilling well intake froze during winter.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										(n)	0.07	(w)
2										(n)	.06	.12
3										(n)	.04	.37
4										(n)	(w)	.04
5										(n)	(w)	(w)
6										(n)	.12	(w)
7										(n)	.06	(w)
8										(n)	.04	(w)
9										(n)	(w)	(w)
10										(n)	(w)	(w)
11										(n)	(w)	(w)
12										(n)	(w)	(w)
13										(n)	.00	(w)
14										(n)	.00	.09
15										(n)	.00	.09
16										(n)	.00	(w)
17										(n)	.00	(w)
18										(n)	.00	.09
19										(n)	.00	(w)
20										(n)	.00	(w)
21										(n)	.00	(w)
22										(n)	.00	(w)
23										(n)	.00	(w)
24										(n)	.00	(w)
25									(n)	(n)	.00	(w)
26									(n)	(n)	.00	(w)
27									(n)	(n)	.00	.09
28									(n)	(n)	.00	(w)
29									(n)	(n)	.00	(w)
30									(n)	(n)	(w)	(w)
31									---	(n)	(w)	---

w Water level below intake to stilling well; discharge 0.04 ft /s (0.001 m /s).
n No gage height record.

Table 1.--Surface-water stage, discharge, and quality--Continued

A-1. PANTHER LAKE TRIBUTARY NEAR OLD FORGE, NY 04254372--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	(w)	0.22	(f)	(f)	(f)	(f)	0.35	0.15	0.00	0.00	0.04	0.00
2	(w)	.20	(f)	(f)	(f)	(f)	.58	.12	.00	.00	(w)	.00
3	(w)	.14	(f)	(f)	(f)	(f)	.27	.10	.00	.00	(w)	.51
4	(w)	.40	(f)	(f)	(f)	(f)	.27	.07	.00	.00	.00	.27
5	(w)	1.3	(f)	(f)	(f)	(f)	.29	.07	.00	.00	.00	.04
6	(w)	.43	(f)	(f)	(f)	(f)	.22	.07	.00	.00	.00	.00
7	(w)	.37	(f)	(f)	(f)	(f)	.15	.06	.00	.00	.00	.00
8	(w)	1.3	(f)	(f)	(f)	(f)	.12	.04	.00	.00	.04	.14
9	(w)	.61	(f)	(f)	(f)	(f)	.14	.04	.00	.00	.25	.88
10	(w)	.64	(f)	(f)	(f)	(f)	.20	.04	.00	.00	.10	.40
11	(w)	.37	(f)	(f)	(f)	(f)	.27	.04	.00	.00	.95	.71
12	(w)	.22	(f)	(f)	(f)	(f)	.27	.14	.00	.00	.74	.27
13	(w)	.15	(f)	(f)	(f)	(f)	.15	.17	.00	.00	.20	.15
14	(w)	.15	(f)	(f)	(f)	(f)	.15	.12	.00	.00	.07	.12
15	(w)	.15	(f)	(f)	(f)	(f)	.20	.12	.00	.00	.44	.10
16	(w)	.14	(f)	(f)	(f)	(f)	.14	.29	.00	.00	1.1	.09
17	(w)	.14	(f)	(f)	(f)	(f)	.14	.17	.00	.00	.40	.12
18	.24	.14	(f)	(f)	(f)	(f)	.61	.12	.00	.00	.15	.80
19	.22	.14	(f)	(f)	(f)	(f)	.27	.09	.00	.00	.09	.29
20	.15	.12	(f)	(f)	(f)	(f)	.15	.07	.00	.00	.04	.15
21	.27	.10	(f)	(f)	(f)	(f)	.12	.06	.00	.22	.04	.10
22	.51	.10	(f)	(f)	(f)	(f)	.09	.04	.00	.27	(w)	1.1
23	.22	.10	(f)	(f)	(f)	(f)	.09	(w)	.00	.14	(w)	1.3
24	.14	.12	(f)	(f)	(f)	(f)	.14	(w)	.00	(w)	(w)	1.1
25	.40	.49	(f)	(f)	(f)	(f)	.15	(w)	.00	(w)	(w)	.35
26	1.3	.40	(f)	(f)	(f)	(f)	.14	.00	(w)	(w)	(w)	.17
27	.40	.40	(f)	(f)	(f)	(f)	.12	.00	.06	(w)	.00	(w)
28	.24	.20	(f)	(f)	(f)	(f)	.10	.00	(w)	(w)	.00	(w)
29	.17	.17	(f)	(f)	(f)	(f)	.17	.00	(w)	c.84	.00	(w)
30	.14	.14	(f)	(f)	(f)	(f)	.22	.00	.00	.29	.00	(w)
31	.14	---	(f)	(f)	(f)	(f)	---	.00	---	.09	.00	---

w Water level below intake to stilling well; discharge 0.04 ft /s (0.001 m /s).
f Stilling well frozen.
c Water leaving channel above flume.

Table 1.--Surface-water stage, discharge, and quality--Continued

A-1. PANTHER LAKE TRIBUTARY NEAR OLD FORGE, NY 04254372--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC
1	0.09	0.09	(f)
2	.09	.07	(f)
3	.14	.06	(f)
4	.17	.06	(f)
5	.14	.04	(f)
6	.40	.09	(f)
7	1.3	.15	(f)
8	1.1	.10	(f)
9	.43	.07	(f)
10	.22	.07	(f)
11	.14	.06	(f)
12	.12	.06	(f)
13	.09	.04	(f)
14	.09	.04	(f)
15	.09	.04	(f)
16	.09	.04	(f)
17	.07	.04	(f)
18	.15	.04	(f)
19	.55	.14	(f)
20	.27	.37	(f)
21	.20	.40	(f)
22	.15	.20	(f)
23	.32	.10	(f)
24	.40	.09	(f)
25	.22	.10	(f)
26	.17	.10	(f)
27	2.4	.09	(f)
28	2.7	.10	(f)
29	.58	.09	(f)
30	.22	.09	(f)
31	.14	---	(f)

f Stilling well frozen.

Table 1.--Surface-water stage, discharge, and quality--Continued

A-2. PANTHER LAKE NEAR OLD FORGE, NY 0425437490

LOCATION.--Lat 43°40'59", long 74°55'20", Herkimer County, Hydrologic Unit 04150101, on downstream side of foot bridge 20 ft (6 m) upstream from lake outlet, 0.2 mi (0.3 km) upstream from road, and about 3.2 (5.2 km) southeast of Old Forge.

DRAINAGE AREA.--0.47 mi (1.22 km).

PERIOD OF RECORD.--September 1978 through December 1981.

GAGE.--Vertical enameled staff gage attached to a support pier on downstream side of foot bridge.

EXTREMES.--Maximum water stage, 2.74 ft (0.83 m) April 10, 1980; minimum water stage, 1.83 ft (0.56 m) July 17, 1981.

WATER STAGE, IN FEET ABOVE 0.00 DATUM ON LAKE STAFF GAGE

DATE	WATER STAGE	DATE	WATER STAGE	DATE	WATER STAGE
23SEP1978	2.14	27JUN1979	2.02	28AUG1980	1.86
19OCT1978	2.26	11JUL1979	2.00	02SEP1980	1.96
26OCT1978	2.20	17JUL1979	1.96	09SEP1980	1.95
02NOV1978	2.24	31JUL1979	1.98	16SEP1980	1.98
06NOV1978	2.20	10AUG1979	1.92	22SEP1980	1.99
14NOV1978	2.14	22AUG1979	1.92	30SEP1980	1.95
21NOV1978	2.26	28AUG1979	2.14	06OCT1980	1.92
29NOV1978	2.28	06SEP1979	2.57	14OCT1980	1.90
06DEC1978	2.26	13SEP1979	2.20	20OCT1980	1.95
13DEC1978	2.39	20SEP1979	2.20	28OCT1980	2.32
06JAN1979	2.42	03OCT1979	2.00	04NOV1980	2.15
10JAN1979	2.38	09OCT1979	2.12	11NOV1980	2.40
22FEB1979	2.24	17OCT1979	2.16	18NOV1980	2.23
24FEB1979	2.26	23OCT1979	2.15	23NOV1980	2.16
05MAR1979	2.28	31OCT1979	2.12	02DEC1980	2.20
06MAR1979	2.45	08NOV1979	2.17	09DEC1980	2.34
07MAR1979	2.48	14NOV1979	2.21	04MAR1981	2.33
08MAR1979	2.42	13DEC1979	2.26	18MAR1981	2.19
09MAR1979	2.38	03JAN1980	2.18	01APR1981	2.50
15MAR1979	2.32	24JAN1980	2.24	28APR1981	2.16
19MAR1979	2.26	30JAN1980	2.18	29JUN1981	2.00
22MAR1979	2.24	25MAR1980	2.40	30JUN1981	2.00
25MAR1979	2.73	27MAR1980	2.31	01JUL1981	1.98
27MAR1979	2.65	31MAR1980	2.35	14JUL1981	1.86
28MAR1979	2.56	05APR1980	2.48	15JUL1981	1.86
29MAR1979	2.51	10APR1980	2.74	16JUL1981	1.84
31MAR1979	2.62	13APR1980	2.58	17JUL1981	1.83
03APR1979	2.71	17APR1980	2.48	26JUL1981	1.96
05APR1979	2.60	19APR1980	2.37	27JUL1981	1.96
09APR1979	2.48	24APR1980	2.19	29JUL1981	2.05
11APR1979	2.43	30APR1980	2.15	06AUG1981	2.00
14APR1979	2.39	04MAY1980	2.07	12AUG1981	2.17
16APR1979	2.39	14MAY1980	2.04	13AUG1981	2.14
19APR1979	2.39	22MAY1980	2.02	21AUG1981	2.10
21APR1979	2.42	28MAY1980	1.94	27AUG1981	2.01
24APR1979	2.54	04JUN1980	2.07	13OCT1981	2.22
27APR1979	2.66	10JUN1980	2.32	21OCT1981	2.20
30APR1979	2.64	19JUN1980	2.14	24OCT1981	2.73
03MAY1979	2.42	24JUN1980	2.09	03NOV1981	2.38
09MAY1979	2.30	02JUL1980	2.05	18NOV1981	2.12
15MAY1979	2.20	08JUL1980	2.00	23NOV1981	2.22
23MAY1979	2.18	22JUL1980	2.23	03DEC1981	2.15
28MAY1979	2.32	27JUL1980	2.15	10DEC1981	2.13
05JUN1979	2.20	05AUG1980	2.04	16DEC1981	2.10
13JUN1979	2.17	14AUG1980	1.96	31DEC1981	2.14
19JUN1979	2.12	19AUG1980	1.90		

Table 1.--Surface-water stage, discharge, and quality--Continued

A-2. PANTHER LAKE NEAR OLD FORGE, NY 0425437490--Continued

INTENSIVE SAMPLING, FALL 1981
WATER STAGE, IN FEET ABOVE 0.00 DATUM ON LAKE STAFF GAGE

DATE	TIME	WATER STAGE	DATE	TIME	WATER STAGE	DATE	TIME	WATER STAGE
21SEP1981	1325	2.11	25SEP1981	1905	2.36	07OCT1981	1835	2.33
21SEP1981	1800	2.10	26SEP1981	1350	2.32	07OCT1981	2350	2.36
21SEP1981	2330	2.12	27SEP1981	1310	2.30	08OCT1981	0320	2.36
22SEP1981	0515	2.16	27SEP1981	1605	2.30	08OCT1981	0920	2.38
22SEP1981	1710	2.24	28SEP1981	1345	2.30	08OCT1981	1500	2.38
22SEP1981	2330	2.24	30SEP1981	1550	2.20	08OCT1981	1750	2.40
23SEP1981	0200	2.24	30SEP1981	2110	2.20	08OCT1981	2105	2.40
23SEP1981	1125	2.24	01OCT1981	1215	2.18	08OCT1981	2310	2.40
23SEP1981	1710	2.30	01OCT1981	1255	2.18	09OCT1981	0320	2.40
23SEP1981	2330	2.38	01OCT1981	1455	2.20	09OCT1981	1505	2.38
24SEP1981	0145	2.40	01OCT1981	1810	2.19	09OCT1981	1535	2.38
24SEP1981	0505	2.41	01OCT1981	2135	2.22	09OCT1981	1750	2.37
24SEP1981	1115	2.42	06OCT1981	1100	2.14	09OCT1981	2255	2.37
24SEP1981	1705	2.40	06OCT1981	1500	2.16	10OCT1981	0735	2.36
24SEP1981	2030	2.40	06OCT1981	1815	2.20	10OCT1981	1825	2.34
25SEP1981	0725	2.38	06OCT1981	2130	2.22	11OCT1981	1850	2.30
25SEP1981	1705	2.37	07OCT1981	0330	2.24	11OCT1981	2030	2.30

Table 1.--Surface-water stage, discharge, and quality--Continued

A-3. PANTHER LAKE OUTLET NEAR OLD FORGE, NY 04254375

LOCATION.--Lat 43°41'05", long 74°55'08", Herkimer County, Hydrologic Unit 04150101, on left bank 0.1 mi (0.2 km) upstream from Little Moose Lake, 0.2 mi (0.3 km) downstream from outlet of Panther Lake, and about 3.2 mi (5.1 km) southeast of Old Forge.

DRAINAGE AREA.--0.48 mi (1.24 km).

PERIOD OF RECORD.--Water discharge from October 1977 through December 1981, water-quality data from November 1977 through May 1979.

GAGE.--A digital recorder and a graphic water-stage recorder driven by a servo-manometer gas-purge system. Bubble-gage orifice fixed to bottom of stream, prior to October 23, 1980. After October 23, 1980, bubble-gage orifice in stilling well attached to Parshall flume. For outside reference, used a vertical, enameled staff gage (base gage). Prior to October 23, 1980, the base gage on left bank 6 ft (2 m) upstream from the control; from October 1977 through September 1978, datum 0.11 ft (0.03 m) lower and from October 1978 to October 23, 1980, 1.11 ft (0.34 m) lower than the datum after October 23, 1980. After October 23, 1980, base gage attached to the flume wall.

CONTROL.--Man-made cobble riffle. Beginning October 23, 1980, aluminum Parshall flume [9-in. (22.9-cm) throat x 2.0 ft (0.61 m) deep].

DISCHARGE MEASUREMENTS.--Prior to October 23, 1980, all measurements upstream from the control; generally poor to fair.

EXTREMES.--Maximum discharge 5.7 ft /s (0.16 m /s) April 1, 1979, water stage 2.02 ft (0.616 m) for datum then in use. Maximum water stage 6.14 ft (1.871 m) caused by ice jam March 12, 1979, for datum then in use. Minimum discharge 0.13 ft /s (0.004 m /s) July 12-14, 15, 18, 26, 27, 1978, water stage 1.01 ft (0.308 m) for datum then in use.

REMARKS.--Prior to installation of Parshall flume, stage-discharge relation affected by backwater from ice during winter. When flume was installed, heating elements attached to walls of flume prevented ice from forming on the flume.

ACCURACY.--Prior to October 23, 1980, records poor. After flume installed, records excellent except when ice affected stage-discharge relationship or flow exceeded 5 ft /s.

Table 1.--Surface-water stage, discharge, and quality--Continued

A-3. PANTHER LAKE OUTLET NEAR OLD FORGE, NY 04254375--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	0.85	2.3	1.1	1.8	0.60	1.6	3.7	0.68	0.38	0.28	0.28
2	3.4	.76	2.7	1.1	1.7	.57	1.9	3.3	.72	.35	.28	.26
3	3.3	.72	2.6	1.0	1.6	.57	1.8	2.9	.86	.33	.68	.24
4	2.3	.94	2.3	1.0	1.4	.60	1.7	2.7	.72	.31	.90	.24
5	2.0	1.2	2.1	.99	1.4	.60	2.0	2.7	.64	.28	.72	.24
6	2.0	1.1	2.4	.98	1.4	.68	2.0	2.7	.64	.26	.60	.22
7	1.8	1.0	2.2	.94	1.4	.72	2.0	2.7	.60	.24	.53	.20
8	1.5	.99	1.9	1.1	1.5	.60	2.0	2.9	.64	.24	.50	.17
9	2.2	1.0	1.9	4.1	1.4	.72	1.9	4.3	.72	.22	.50	.17
10	2.7	1.1	1.9	4.3	1.2	.57	1.7	4.8	.68	.19	.47	.14
11	2.6	1.8	1.7	3.8	1.2	.53	1.8	4.4	.64	.15	.41	.81
12	2.4	1.6	1.5	3.5	1.2	.50	2.3	3.9	.57	.15	.47	2.2
13	2.0	1.5	1.4	3.0	1.2	.50	2.7	3.4	.95	.13	.44	2.1
14	1.8	1.3	2.1	2.8	1.2	.68	3.2	3.0	.90	.14	.38	1.5
15	1.6	1.2	2.9	2.5	1.1	.86	3.1	2.6	.77	.14	.35	1.2
16	1.5	1.1	2.7	2.1	.90	.86	2.9	2.4	.72	.15	.33	1.1
17	2.1	1.2	2.4	1.9	.81	.86	2.6	2.2	.72	.19	.38	.95
18	2.6	1.9	2.0	2.1	.77	.77	2.4	2.0	.72	.15	.38	.81
19	2.3	2.5	1.8	1.8	.72	.68	2.4	1.9	.68	.15	.33	.90
20	2.1	2.1	1.6	b2.2	.68	.64	2.6	1.6	.64	.15	.50	.77
21	1.7	2.1	1.7	b2.4	.68	.77	2.8	1.9	.57	.17	.41	.72
22	1.5	2.4	1.7	2.1	.64	1.0	2.8	1.8	.64	.17	.35	.72
23	1.5	2.4	1.5	2.0	.64	1.1	2.8	1.6	.53	.17	.33	.64
24	1.3	2.6	1.4	1.8	.68	1.1	2.8	1.5	.50	.15	.38	.60
25	1.2	2.4	1.9	1.8	.77	1.0	3.2	1.2	.47	.14	.47	.53
26	1.2	2.7	1.9	2.2	.72	1.0	3.6	1.1	.47	.14	.41	.50
27	1.0	2.7	1.7	2.5	.68	1.7	4.0	1.0	.50	.24	.35	.44
28	.99	2.4	1.5	2.4	.64	1.9	4.4	.86	.47	.28	.35	.44
29	.94	2.1	1.4	2.2	---	1.8	4.5	.86	.44	.31	.35	.41
30	.90	1.8	1.3	2.1	---	1.6	4.2	.86	.41	.35	.33	.35
31	.90	---	1.2	1.9	---	1.5	---	.77	---	.31	.31	---
TOTAL	58.63	49.46	59.6	65.71	30.03	27.58	79.7	73.55	19.21	6.73	13.47	19.85
MEAN	1.89	1.65	1.92	2.12	1.07	.89	2.66	2.37	.64	.22	.43	.66
MAX	3.4	2.7	2.9	4.3	1.8	1.9	4.5	4.8	.95	.38	.90	2.2
MIN	.90	.72	1.2	.94	.64	.50	1.6	.77	.41	.13	.28	.14
CFSM	4.11	3.59	4.17	4.61	2.33	1.94	5.78	5.15	1.39	.48	.94	1.44
IN.	4.73	3.99	4.8	5.30	2.42	2.23	6.43	5.94	1.55	.54	1.09	1.60

WTR YR 1978 TOTAL 503.52 MEAN 1.38 MAX 4.8 MIN .13 CFSM 3.00 IN 40.63

b Stage-discharge relationship affected by ice.

Table 1.--Surface-water stage, discharge, and quality--Continued

A-3. PANTHER LAKE OUTLET NEAR OLD FORGE, NY 04254375--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.28	0.72	0.64	b1.4	b0.74	b0.61	5.6	3.5	1.3	0.50	0.39	1.1
2	.24	.64	.57	b3.9	b.74	.50	5.4	2.8	1.1	.52	.55	1.1
3	.24	.60	.57	b3.9	b.72	.47	5.4	2.4	.97	.52	.55	2.0
4	.27	.60	.57	b3.0	b.70	.52	4.9	2.5	.85	.47	.52	1.7
5	.28	.57	.57	b2.5	b.70	1.0	4.4	2.2	.71	.47	.44	1.4
6	.53	.53	.57	b2.0	b.70	2.8	4.3	2.0	.68	.47	.42	2.8
7	.47	.50	.57	b1.6	b.68	2.5	4.6	1.8	.68	.47	.35	3.9
8	.44	.50	.76	b1.3	b.68	2.3	3.8	1.6	.68	.42	.32	3.1
9	.41	.47	.95	b1.1	b.64	2.0	3.5	1.4	.64	.39	.30	2.4
10	.38	.47	.95	b.90	b.60	1.7	3.1	1.3	.64	.39	.97	2.0
11	.38	.44	b.90	b.80	b.56	1.4	2.7	1.3	.58	.39	.58	1.7
12	.38	.41	b.86	b.80	b.54	1.3	2.5	1.2	.58	.39	.52	1.3
13	.41	.38	b.74	b1.0	b.52	1.2	2.4	1.2	.55	.39	.47	1.1
14	.90	.38	b.82	b1.2	b.50	1.4	2.4	1.1	.52	.39	.44	1.7
15	1.1	.38	b.82	b1.5	b.48	1.5	2.5	1.0	.47	.39	.42	3.1
16	1.1	.38	b.80	b1.4	b.47	1.5	2.5	.97	.44	.50	.42	2.4
17	.90	.38	b.84	b1.3	b.46	1.1	2.6	.97	.42	.47	.37	2.1
18	.81	.81	b.80	b1.2	b.46	.97	2.7	.93	.42	.44	.39	1.6
19	.81	.72	b.76	b1.1	b.47	.85	2.7	.85	.47	.42	.42	1.4
20	.81	.68	b.74	b1.1	b.46	.78	2.8	.78	.44	.39	.39	1.2
21	.72	.64	b.78	b1.2	b.45	.71	3.2	.74	.44	.35	.37	1.1
22	.68	.57	b.88	b1.2	b.45	.85	3.3	.78	.42	.35	.35	1.0
23	.60	.60	b.86	b1.3	b.47	1.2	3.7	.74	.42	.30	.35	.89
24	.57	.81	b.86	b1.3	b.46	2.1	4.1	.74	.42	.30	.52	.81
25	.53	.76	b.86	b1.3	b.45	4.6	4.3	.81	.44	.28	.68	.74
26	.64	.64	b.84	b1.2	b.62	5.3	4.3	1.1	.42	.32	.61	.74
27	1.1	.64	b.84	b1.1	b.72	4.6	4.4	1.4	.39	.37	.85	.64
28	1.1	.72	b.84	b1.0	b.71	3.9	4.9	1.5	.39	.32	.89	.61
29	.95	.64	b.82	b.92	---	3.5	4.9	1.4	.42	.32	.97	.64
30	.85	.64	b.82	b.84	---	3.5	4.1	1.3	.42	.30	1.3	.64
31	.76	---	b.80	b.78	---	4.6	---	1.4	---	.30	1.3	---
TOTAL	19.64	17.22	24.00	45.14	16.15	61.26	112.0	43.71	17.32	12.30	17.42	46.91
MEAN	.63	.57	.77	1.46	.58	1.98	3.73	1.41	.58	.40	.56	1.56
MAX	1.1	.81	.95	3.9	.74	5.3	5.6	3.5	1.3	.52	1.3	3.9
MIN	.24	.38	.57	.78	.45	.47	2.4	.74	.39	.28	.30	.61
CFSM	1.37	1.24	1.67	3.17	1.26	4.30	8.11	3.07	1.26	.87	1.22	3.39
IN.	1.58	1.39	1.94	3.64	1.30	4.94	9.04	3.53	1.40	.99	1.41	3.79

CAL YR 1978 TOTAL 396.69 MEAN 1.09 MAX 4.8 MIN .13 CFSM 2.37 IN 32.01
WTR YR 1979 TOTAL 433.07 MEAN 1.19 MAX 5.6 MIN .24 CFSM 2.59 IN 34.95

b Stage-discharge relationship affected by ice.

Table 1.--Surface-water stage, discharge, and quality--Continued

A-3. PANTHER LAKE OUTLET NEAR OLD FORGE, NY 04254375--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.68	0.85	b2.5	b0.96	b0.60	b0.52	1.6	1.2	0.75	0.47	0.75	0.35
2	.65	.89	b2.3	b.90	b.58	b.52	1.6	1.1	.85	.47	.61	.93
3	.61	1.0	b2.1	b.86	b.56	b.52	1.6	1.1	1.6	.47	.61	1.2
4	.61	1.0	b1.9	b.80	b.54	b.54	1.9	.93	2.2	.44	.58	1.1
5	.61	1.1	b1.9	b.76	b.54	b.56	2.5	.82	2.1	.42	.58	.97
6	1.0	1.1	b1.7	b.72	b.54	b.56	2.3	.78	1.7	.44	.71	.82
7	.85	1.1	1.7	b.70	b.54	b.54	2.2	.75	1.7	.37	.61	.75
8	.78	1.1	1.7	b.66	b.52	b.52	2.3	.71	1.8	.42	.55	.65
9	.75	1.1	1.6	b.62	b.52	b.50	3.4	.68	2.0	.44	.50	.65
10	.75	1.5	1.6	b.60	b.50	b.49	4.1	.68	1.8	.39	.47	.65
11	.68	1.6	1.6	b1.0	b.50	b.50	3.8	.71	1.6	.39	.44	.55
12	.68	1.5	1.6	1.7	b.50	b.52	3.4	.68	1.4	.35	.47	.53
13	.78	1.4	1.9	1.5	b.50	b.54	3.3	.68	1.2	.35	.47	.50
14	.82	1.3	1.7	b1.4	b.48	b.58	3.0	.71	1.1	.33	.44	.85
15	.85	1.3	b1.6	b1.2	b.47	b.62	3.3	.68	.97	.30	.44	.78
16	.97	1.2	b1.5	b1.1	b.48	b.70	3.1	.65	.97	.55	.37	.75
17	1.0	1.1	b1.4	b1.0	b.49	b.82	2.7	.65	.85	.53	.37	.78
18	1.1	1.1	b1.3	b.96	b.50	b.96	2.4	.65	.82	.50	.35	.78
19	1.0	1.1	b1.2	b.88	b.52	b1.2	2.2	.68	.75	.47	.33	.68
20	1.0	.89	b1.1	b.82	b.54	b1.6	2.0	.65	.89	.53	.33	.65
21	.97	.85	b1.1	b.80	b.54	b2.6	1.8	.65	.85	1.4	.30	.65
22	.97	.89	b1.1	b.76	b.56	2.7	1.6	.58	.78	1.4	.28	.61
23	.93	.93	b1.1	b.72	b.56	2.4	1.4	.55	.75	1.3	.28	.65
24	.97	.93	b1.3	b.70	b.56	2.1	1.3	.55	.71	1.1	.25	.55
25	.97	1.1	b1.7	b.68	b.54	2.0	1.3	.53	.61	.93	.22	.50
26	.97	1.8	b2.1	b.68	b.54	1.7	1.3	.47	.53	.82	.19	.50
27	.93	3.2	b1.8	b.66	b.54	1.4	1.2	.44	.50	.97	.21	.47
28	.89	3.1	b1.5	b.66	b.52	1.3	1.2	.42	.50	.82	.19	.44
29	.93	2.9	b1.3	b.64	b.52	1.4	1.2	.39	.50	.89	.19	.39
30	.89	2.8	b1.1	b.62	---	1.6	1.2	.39	.47	.93	.23	.35
31	.89	---	b1.0	b.62	---	1.6	---	.61	---	.89	.37	---
TOTAL	26.48	41.73	49.0	26.68	15.30	34.11	66.2	21.07	33.25	20.08	12.69	20.03
MEAN	.85	1.39	1.58	.86	.53	1.10	2.21	.68	1.11	.65	.41	.67
MAX	1.1	3.2	2.5	1.7	.60	2.7	4.1	1.2	2.2	1.4	.75	1.2
MIN	.61	.85	1.0	.60	.47	.49	1.2	.39	.47	.30	.19	.35
CFSM	1.85	3.02	3.44	1.87	1.15	2.39	4.80	1.48	2.41	1.41	.89	1.46
IN.	2.14	3.37	3.95	2.15	1.23	2.75	5.34	1.70	2.68	1.62	1.02	1.62

CAL YR 1979 TOTAL 489.42 MEAN 1.34 MAX 5.6 MIN .28 CFSM 2.91 IN 39.49
WTR YR 1980 TOTAL 366.62 MEAN 1.00 MAX 4.1 MIN .19 CFSM 2.17 IN 29.58

b Stage-discharge relationship affected by ice.

Table 1.--Surface-water stage, discharge, and quality--Continued

A-3. PANTHER LAKE OUTLET NEAR OLD FORGE, NY 04254375--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.33	1.2	1.0	b0.59	0.26	2.3	3.2	1.2	0.59	0.54	0.73	0.51
2	.40	1.1	1.0	.54	.88	2.0	4.4	1.2	.56	.51	.64	.51
3	.44	1.0	1.4	.49	b.70	1.8	3.8	1.1	.54	.49	.59	1.0
4	.42	1.1	1.3	b.46	b.91	1.5	3.3	1.0	.51	.46	.59	.97
5	.40	1.4	1.2	b.44	b1.1	1.3	3.0	.97	.49	.46	.64	.88
6	.35	1.4	1.1	.42	1.1	1.2	2.7	.91	.46	.44	.64	.79
7	.33	1.6	1.0	.51	1.1	1.1	2.4	.82	.42	.44	.59	.73
8	.35	2.1	1.1	.54	1.1	1.0	2.1	.79	.39	.44	.64	.91
9	.35	2.2	1.6	b.62	1.1	1.0	1.9	.76	.46	.42	.73	1.2
10	.28	2.1	1.6	.56	.97	.91	1.9	.73	.44	.39	.67	1.2
11	.30	2.0	1.5	b.49	1.3	.91	1.9	.76	.44	.35	1.0	1.3
12	.35	1.8	1.4	b.49	1.8	.91	2.0	1.0	.39	.35	1.3	1.2
13	.35	1.6	1.4	b.73	1.7	.88	1.8	.97	.44	.30	1.1	1.1
14	.30	1.5	1.3	b.79	1.5	.85	1.7	.97	.44	.26	1.0	1.0
15	.30	1.4	1.4	b.70	1.3	.85	1.6	1.1	.51	.26	1.2	.97
16	.30	1.2	b1.3	.62	1.1	.85	1.6	1.3	.49	.24	1.6	.88
17	.33	1.1	1.2	.51	1.0	.79	1.6	1.2	.56	.22	1.4	.91
18	.48	1.1	1.1	.49	.97	.76	2.3	1.0	.51	.20	1.2	1.2
19	.50	1.1	1.1	.51	1.1	.76	2.3	1.0	.49	.20	1.1	1.1
20	.47	1.0	.97	.51	1.9	.70	2.1	.94	.46	.39	.94	1.0
21	nr.50	.94	.88	.44	3.1	.67	1.8	.85	.44	1.0	.85	.91
22	nr.54	.88	.88	.44	3.7	.64	1.7	.82	.49	.79	.76	1.4
23	nr.62	.82	.85	.46	4.3	.62	1.6	.76	.56	.67	.70	1.7
24	.62	.85	.82	.46	5.1	.62	1.6	.73	.51	.62	.70	2.3
25	.73	.97	.73	.44	4.9	.62	1.6	.79	.56	.56	.67	2.1
26	1.6	.97	.64	.44	3.9	.59	1.4	.76	.62	.51	.62	1.9
27	1.8	.91	.64	.46	3.1	.59	1.3	.70	.64	.59	.56	1.7
28	1.7	.94	.64	.46	2.6	.59	1.3	.67	.62	.64	.51	1.6
29	1.5	.97	b.70	.46	---	.70	1.3	.62	.62	1.1	.56	1.3
30	1.4	1.0	.73	.42	---	1.3	1.3	.62	.56	.91	.54	1.2
31	1.2	---	.62	.33	---	2.6	---	.62	---	.82	.51	---
TOTAL	19.54	38.25	33.10	15.82	53.59	31.91	62.5	27.66	15.21	15.57	25.28	35.47
MEAN	.63	1.28	1.07	.51	1.91	1.03	2.08	.89	.51	.50	.82	1.18
MAX	1.8	2.2	1.6	.79	5.1	2.6	4.4	1.3	.64	1.1	1.6	2.3
MIN	.28	.82	.62	.33	.26	.59	1.3	.62	.39	.20	.51	.51
CFSM	1.37	2.78	2.33	1.11	4.15	2.24	4.52	1.94	1.11	1.09	1.78	2.57
IN.	1.58	3.09	2.67	1.28	4.32	2.57	5.04	2.23	1.23	1.26	2.04	2.86

CAL YR 1980 TOTAL 340.30 MEAN .93 MAX 4.1 MIN .19 CFSM 2.02 IN 27.46
WTR YR 1981 TOTAL 373.90 MEAN 1.02 MAX 5.1 MIN .20 CFSM 2.22 IN 30.17

nr No stage-discharge relationship during flume installation.
b Stage-discharge relationship affected by ice.

Table 1.--Surface-water stage, discharge, and quality--Continued

A-3. PANTHER LAKE OUTLET NEAR OLD FORGE, NY 04254375--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC
1	1.1	2.5	0.94
2	1.0	2.1	.94
3	.97	1.9	.91
4	1.0	1.7	.91
5	1.1	1.6	.88
6	1.2	1.6	.85
7	1.6	1.6	.79
8	2.0	1.5	.79
9	2.0	1.4	.79
10	1.8	1.3	.82
11	1.6	1.2	.82
12	1.4	1.1	.79
13	1.3	1.0	.76
14	1.2	1.0	.76
15	1.1	.97	.73
16	1.1	.97	.70
17	1.0	.97	.70
18	1.0	.94	.70
19	1.2	.97	.70
20	1.2	1.1	.62
21	1.1	1.2	.64
22	1.1	1.3	.62
23	1.2	1.2	.76
24	1.2	1.2	.73
25	1.1	1.1	.73
26	1.1	1.0	.70
27	2.4	1.0	.67
28	4.8	1.0	.70
29	4.8	1.0	.76
30	3.8	1.0	.76
31	3.1	---	.73
TOTAL	51.57	38.42	23.70
MEAN	1.66	1.28	.76
MAX	4.8	2.5	.94
MIN	.97	.94	.62
CFSM	3.61	2.78	1.65
IN.	4.16	3.10	1.91

CAL YR 1981 TOTAL 396.70 MEAN 1.09 MAX 5.1 MIN .20 CFSM 2.37 IN 32.01

Table 1.--Surface-water stage, discharge, and quality--Continued

A-3. PANTHER LAKE OUTLET NEAR OLD FORGE, NY 04254375--Continued

WATER QUALITY

Date	Time	Stream-flow, instan-taneous (ft /s)	Spe-cific con-duct-ance (mhos/ cm at 25° C)	pH (field)	Temper-ature (° C)	Solids, residue at 105° C, sus-pended (mg/L)	Solids, vola-tile, sus-pended (mg/L)	Iron, total recov-erable (g/L as Fe)	Lead, total recov-erable (g/L as Pb)	Manga-nese, total recov-erable (g/L as Mn)	Zinc, total recov-erable (g/L as Zn)
NOV , 1977											
01...	1500	0.79	45	5.3	9.0	--	--	130	6	<10	<20
30...	1430	1.7	38	5.8	2.0	--	--	170	2	20	<20
JAN , 1978											
25...	1600	1.6	32	5.7	.0	0	--	100	ND	20	<20
FEB											
16...	1200	.96	33	5.2	.0	0	--	80	ND	20	<20
MAR											
07...	1230	1.0	36	5.7	.0	--	--	100	21	20	<20
22...	1700	1.1	35	6.4	.5	--	--	90	<2	20	<20
MAY											
02...	1730	3.2	36	6.5	5.0	--	--	110	4	30	<20
03...	1230	2.9	37	6.4	--	--	--	100	4	30	20
03...	1800	4.3	--	--	--	--	--	200	15	40	40
04...	1800	2.8	--	--	--	--	--	620	87	40	90
05...	1800	3.8	--	--	--	--	--	250	42	40	50
06...	1800	3.3	--	--	--	--	--	150	44	40	20
07...	1800	2.8	--	--	--	--	--	230	60	30	30
08...	0600	2.8	--	--	--	--	--	170	32	30	30
08...	1800	3.1	--	--	--	--	--	280	32	20	30
09...	0600	4.0	--	--	--	--	--	380	33	50	30
09...	1800	4.9	--	--	--	--	--	620	25	90	30
10...	0600	4.9	--	--	--	--	--	980	44	--	50
10...	1800	4.8	--	--	--	--	--	510	22	70	30
11...	0815	4.5	34	5.7	--	--	--	240	2	20	<20
11...	1800	4.4	--	--	--	--	--	500	22	90	30
12...	1800	3.8	--	--	--	--	--	380	30	40	30
13...	1800	3.3	--	--	--	--	--	320	21	30	40
14...	1800	3.0	--	--	--	--	--	280	18	30	40
15...	1800	2.6	--	--	--	--	--	280	14	40	20
24...	1430	1.4	34	6.8	20.0	--	--	130	3	20	20
JUN											
29...	1545	.20	35	7.3	24.0	--	--	110	27	20	ND
JUL											
25...	1100	.17	35	7.0	--	--	--	120	14	40	30
27...	1700	.41	40	4.7	--	19	12	1100	20	90	30
27...	1900	.41	98	4.4	--	--	--	1000	42	80	50
28...	0300	.35	53	6.1	--	--	--	430	19	50	20
28...	1100	.33	46	6.6	--	0	0	420	20	50	20
29...	1500	.28	45	6.9	--	--	--	380	20	30	20
29...	1900	.47	210	3.5	--	0	0	480	20	60	20
30...	0300	.41	175	3.6	--	0	0	420	21	40	20
30...	1100	.41	146	3.7	--	--	--	440	18	30	<20
31...	1100	.35	--	--	--	7	2	700	34	40	70

ND No determination.

Table 1.--Surface-water stage, discharge, and quality--Continued

A-3. PANTHER LAKE OUTLET NEAR OLD FORGE, NY 04254375--Continued

WATER QUALITY

Date	Time	Stream-flow, instan-taneous (ft /s)	Spe-cific con-duct-ance (mhos/ cm at 25° C)	pH (field)	Temper-ature (° C)	Solids, residue at 105° C, sus-pended (mg/L)	Solids, vola-tile, sus-pended (mg/L)	Iron, total recov-erable (g/L as Fe)	Lead, total recov-erable (g/L as Pb)	Manga-nese, total recov-erable (g/L as Mn)	Zinc, total recov-erable (g/L as Zn)
AUG											
01...	1100	0.33	158	3.8	--	10	8	620	7	40	--
02...	1830	.33	110	4.3	--	5	1	350	40	40	40
17...	1445	.41	37	7.0	--	--	--	180	26	40	<20
29...	1000	.33	37	7.0	19.0	3	2	110	--	20	60
SEP											
11...	1630	2.4	45	5.2	--	2	1	1200	26	130	100
11...	2130	1.9	51	4.8	--	0	0	700	30	80	60
12...	0330	2.3	40	5.4	--	0	0	440	38	50	100
12...	2130	2.3	38	6.1	--	0	0	370	33	20	80
13...	0930	1.6	41	6.0	--	0	0	600	16	60	180
13...	1530	2.0	54	5.7	--	0	0	450	10	40	--
15...	1000	1.2	30	6.0	14.0	1	0	140	10	30	ND
16...	1200	1.2	38	6.3	--	0	0	320	--	50	90
20...	1030	2.1	39	6.1	15.0	2	0	110	2	<10	20
NOV											
06...	1100	.53	38	6.7	--	--	--	100	<2	20	<20
14...	1215	.38	38	6.7	--	--	--	150	7	<10	<20
21...	1030	.64	39	6.7	--	--	--	110	<2	<10	ND
29...	1300	.64	42	6.6	--	--	--	140	5	<10	20
DEC											
06...	1515	.57	40	6.5	--	--	--	150	3	<10	<20
JAN , 1979											
06...	1430	E2.0	34	6.4	--	--	--	120	6	<10	30
19...	1200	E1.1	--	--	--	--	--	160	6	20	20
26...	1230	E1.2	35	6.1	--	--	--	130	ND	20	20
FEB											
15...	1230	.52	38	6.1	.0	--	--	280	ND	<10	20
MAR											
01...	1615	.50	38	6.5	--	6	0	830	--	--	20
04...	1330	.50	37	6.5	--	9	0	100	<2	20	<20
06...	1115	2.8	29	6.0	--	6	0	100	2	30	20
07...	1030	2.6	30	6.1	--	8	2	130	<2	40	20
08...	1225	2.3	31	5.7	--	1	0	50	2	40	20
10...	0300	1.7	--	--	--	--	--	540	7	60	40
15...	1300	1.5	--	--	--	3	1	100	2	80	30
22...	1100	.89	31	5.8	--	0	0	40	3	50	30
22...	1445	.97	29	5.7	--	--	--	80	6	30	60
27...	1050	4.6	31	4.8	--	--	--	90	6	50	30
28...	1150	3.9	33	4.7	--	--	--	80	7	60	20
31...	1030	4.4	28	4.7	--	--	--	90	5	30	20
APR											
03...	1600	5.4	25	5.7	--	--	--	90	4	30	30
09...	1300	3.2	34	4.9	--	0	0	100	5	50	40
14...	1050	2.4	29	5.2	--	2	2	100	2	40	20
21...	1315	3.5	41	6.6	--	0	0	110	5	30	40
30...	1030	3.6	39	6.5	--	2	0	100	4	30	20
MAY											
09...	1351	1.4	36	6.8	--	1	0	130	6	20	40
24...	1415	.71	39	6.3	--	5	1	200	3	20	40
30...	1600	1.2	26	6.0	--	6	0	130	3	40	<20

E Estimated.
ND No determination.

Table 1.--Surface-water stage, discharge, and quality--Continued

B-1. LOST BROOK NEAR RAQUETTE LAKE, NY 434604074361401

LOCATION.--Lat 43°46'04", long 74°36'14", Hamilton County, Hydrologic Unit 04150305, on right bank 0.6 mi (1.0 km) upstream from mouth, 1.3 mi (2.1 km) upstream from Sagamore Lake Outlet, 0.1 mi (0.2 km) downstream from confluence of East Inlet, and 4.0 mi (6.4 km) southeast of Raquette Lake.

DRAINAGE AREA.--17.04 mi (44.13 km).

PERIOD OF RECORD.--Water discharge from December 1, 1977 through October 30, 1980; water-quality data from November 1977 through May 1979.

GAGE.--A digital recorder and a graphic water-stage recorder both driven by a servo-manometer gas-purge system. Outside reference a vertical, enameled staff gage (base gage) attached to the left downstream side of a bridge retaining wall.

CONTROL.--Consists of gravel and small cobble riffle approximately 150 ft (46 m) downstream from gage. Subject to shifting during high flow owing to submergence by backwater from Sagamore Lake and weed growth in the channel during the summer.

DISCHARGE MEASUREMENTS.--Low to medium stage, at control. High flow, >200 ft /s (5.7 m /s); measurements on downstream side of bridge at gage, generally poor. Measurements in winter generally poor owing to backwater from ice. Measurements at low to medium stages, generally good.

EXTREMES.--Maximum discharge 855 ft /s (24.21 m /s) April 28, 1979; water stage, 8.49 ft (2.588 m). Minimum discharge 2.1 ft /s (0.059 m /s) July 25, 1979; water stage, 3.11 ft (0.948 m).

ACCURACY.--Winter records poor. During rest of year, records fair except that where control may have been affected by backwater from Sagamore Lake they were poor. Records for periods after high flow were good.

Table 1.--Surface-water stage, discharge, and quality--Continued

B-1. LOST BROOK NEAR RAQUETTE LAKE, NY 434604074361401--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			nd38	b20	b32	b,nd10	b50	86	nd16	6.5	13	7.2
2			nd88	b18	b28	b,nd10	b70	61	nd15	5.7	11	6.2
3			nd94	b17	b25	b,nd10	b100	46	nd14	5.4	12	6.5
4			nd60	b14	b23	b,nd10	b80	46	nd13	5.0	bw45	11
5			nd46	b13	b21	b,nd10	b70	58	nd12	4.6	bw28	9.4
6			nd38	b13	b20	b,nd10	b90	72	nd12	4.4	bw16	8.4
7			nd34	b12	b19	b10	b74	88	nd14	4.2	bw11	7.5
8			nd31	b14	b18	b11	b60	115	nd16	3.9	bw9.8	6.7
9			nd29	b70	b17	b11	b50	254	18	4.3	bw8.8	5.9
10			b25	b200	b16	b11	b42	258	nd17	4.5	bw8.2	5.3
11			b23	b130	b15	b11	b45	155	nd15	4.0	bw6.8	15
12			b21	b90	b14	b11	b120	134	nd13	3.7	bw6.6	bw90
13			b21	b68	b14	b11	154	139	nd17	3.4	7.0	bw110
14			b26	b54	b,nd13	b11	186	169	19	3.4	6.2	bw45
15			b70	b44	b,nd12	b16	117	135	17	3.4	5.2	bw25
16			b94	b33	b,nd12	b25	76	104	nd14	3.4	5.2	bw17
17			b72	b30	b,nd12	b31	48	108	nd12	3.6	5.6	bw14
18			b46	b28	b,nd12	b27	41	96	nd11	3.5	5.4	bw13
19			b38	b25	b,nd12	b22	59	92	nd15	3.4	5.2	bw12
20			b31	b24	b,nd11	b18	86	80	nd21	3.3	7.2	bw11
21			b29	b25	b,nd11	b16	92	97	nd16	3.1	7.6	bw9.2
22			b27	b23	b,nd11	b17	75	100	nd14	3.1	6.4	bw8.8
23			b26	b21	b,nd11	b35	73	52	nd13	3.2	6.0	bw8.4
24			b25	b20	b,nd11	b46	81	48	nd11	3.0	6.8	bw8.0
25			b30	b20	b,nd11	b35	100	37	nd10	2.8	15	bw7.6
26			b45	b22	b,nd11	b28	118	30	nd10	2.6	13	7.3
27			b35	b31	b,nd11	b30	135	25	nd9.0	4.6	12	7.0
28			b28	b41	b,nd10	b40	149	22	nd8.4	22	10	7.3
29			b25	b60	---	b60	148	20	nd7.8	14	9.9	7.9
30			b24	b54	---	b50	121	18	7.3	22	8.8	7.9
31			b22	b42	---	b45	---	17	---	16	7.9	---
TOTAL			1241	1276	433	688	2710	2762	407.5	180.0	326.6	505.5
MEAN			40.0	41.2	15.5	22.2	90.3	89.1	13.6	5.81	10.5	16.9
MAX			94	200	32	60	186	258	21	22	45	110
MIN			21	12	10	10	41	17	7.3	2.6	5.2	5.3
CFSM			2.35	2.42	.91	1.30	5.30	5.23	.80	.34	.62	.99
IN.			2.71	2.79	.95	1.50	5.92	6.03	.89	.39	.71	1.10

b Stage-discharge relationship affected by ice.
bw Stage-discharge relationship affected by backwater.
nd No or doubtful gage-height record.

Table 1.--Surface-water stage, discharge, and quality--Continued

B-1. LOST BROOK NEAR RAQUETTE LAKE, NY 434604074361401--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	18	b9.6	b14	b10	b6.0	376	106	45	bw6.0	bw7.0	41
2	7.7	16	b9.6	b50	b9.2	b6.0	191	79	30	bw9.0	bw7.4	23
3	7.5	14	b9.6	b190	b8.6	b6.2	171	63	22	bw12	bw7.4	20
4	7.0	13	b10	b120	b8.4	b6.6	131	88	18	bw10	bw7.2	17
5	7.0	12	18	b60	b8.0	b16	88	95	15	bw8.0	7.0	15
6	13	12	18	b44	b7.6	b34	68	67	14	bw6.8	6.0	36
7	19	11	17	b35	b7.2	b140	63	50	12	bw5.8	5.2	165
8	17	11	21	b28	b6.8	b180	43	46	11	bw5.2	4.9	81
9	15	10	39	b22	b6.6	b140	35	60	11	bw4.8	4.3	41
10	13	10	35	b18	b6.2	b100	32	71	11	bw4.5	bw4.8	25
11	12	9.9	28	b16	b6.0	b70	27	59	9.9	bw4.3	bw5.8	19
12	12	9.7	23	b14	b6.0	b50	27	46	9.7	bw4.0	bw5.8	15
13	11	9.2	20	b14	b5.8	b40	26	39	9.9	bw3.8	bw5.6	12
14	42	9.4	b17	b15	b5.6	b37	43	35	9.2	bw3.6	bw5.2	14
15	141	9.4	b15	b18	b5.6	b40	69	31	8.8	bw3.5	bw5.0	62
16	75	9.2	b14	b25	b5.6	b41	61	27	8.2	bw3.4	bw4.9	48
17	39	8.8	b13	b23	b5.4	b35	67	24	7.3	bw3.2	bw4.9	30
18	26	21	b13	b21	b5.4	b27	67	21	6.8	bw3.1	bw5.0	21
19	22	30	b12	b18	b5.4	b22	63	20	6.5	bw3.0	bw5.4	16
20	19	23	b12	b17	b5.6	b20	59	18	6.0	bw2.8	bw5.4	14
21	17	18	b12	b16	b5.6	b19	67	18	5.4	2.7	bw5.2	12
22	15	15	b12	b16	b5.6	b26	91	22	5.2	2.6	bw5.0	11
23	14	13	b11	b16	b5.6	b40	117	20	5.2	2.4	4.8	10
24	14	14	b11	b15	b5.6	b80	178	20	5.0	2.3	4.8	9.2
25	14	b12	b11	b15	b5.8	580	208	29	4.9	2.2	19	8.4
26	15	b11	b11	b15	b6.0	400	337	38	4.8	2.8	36	8.0
27	44	b10	b10	b14	b6.0	184	480	37	4.5	4.5	39	7.5
28	54	b9.8	b10	b13	b6.0	103	562	38	4.4	5.0	55	7.3
29	36	b9.6	b10	b12	---	70	247	39	4.4	4.6	34	8.0
30	26	b9.6	b10	b12	---	77	136	44	4.3	4.3	146	8.2
31	21	---	b10	b11	---	185	---	67	---	4.3	97	---
TOTAL	783.1	388.6	471.8	917	181.2	2780.8	4130	1417	319.4	144.5	560.0	804.6
MEAN	25.3	13.0	15.2	29.6	6.47	89.7	138	45.7	10.6	4.66	18.1	26.8
MAX	141	30	39	190	10	580	562	106	45	12	146	165
MIN	7.0	8.8	9.6	11	5.4	6.0	26	18	4.3	2.2	4.3	7.3
CFSM	1.49	.76	.89	1.74	.38	5.26	8.10	2.68	.62	.27	1.06	1.57
IN.	1.71	.85	1.03	2.00	.40	6.07	9.02	3.09	.70	.32	1.22	1.76

CAL YR 1978 TOTAL 10932.1 MEAN 30.0 MAX 258 MIN 2.6 CFSM 1.76 IN 23.86
WTR YR 1979 TOTAL 12898.0 MEAN 35.3 MAX 580 MIN 2.2 CFSM 2.07 IN 28.16

b Stage-discharge relationship affected by ice.
bw Stage-discharge relationship affected by backwater.

Table 1.--Surface-water stage, discharge, and quality--Continued

B-1. LOST BROOK NEAR RAQUETTE LAKE, NY 434604074361401--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	20	b40	b15	b6.6	b3.8	b56	56	22	9.0	19	12
2	8.1	21	b30	b13	b6.4	b3.7	b50	50	30	8.8	30	25
3	7.9	45	b25	b11	b6.0	b3.6	b46	46	161	8.4	26	72
4	8.2	54	b22	b9.4	b5.8	b3.6	b52	40	314	7.4	23	54
5	8.6	45	b21	b8.2	b5.6	b3.6	b86	33	127	6.7	17	52
6	130	34	b20	b7.6	b5.4	b3.7	b62	29	72	7.0	16	30
7	129	28	b20	b7.4	b5.2	b3.8	b50	27	52	6.5	14	19
8	74	29	b19	b7.2	b5.0	b3.9	b72	25	45	6.3	12	13
9	55	27	b17	b7.6	b4.9	b4.1	334	22	66	8.8	10	9.9
10	54	60	b15	b8.6	b4.8	b4.3	457	21	66	8.0	8.4	8.4
11	45	75	b16	b10	b4.7	b4.4	187	19	50	7.2	7.4	8.2
12	35	55	b23	b14	b4.6	b4.6	85	19	37	7.8	7.0	6.3
13	37	42	b50	b27	b4.5	b4.9	108	19	27	7.4	9.4	5.7
14	37	32	b42	b28	b4.4	b5.2	84	27	20	6.5	9.7	7.6
15	33	27	b30	b27	b4.4	b5.6	92	28	17	6.0	10	8.8
16	46	23	b23	b24	b4.3	b7.0	97	25	23	20	9.2	8.2
17	44	20	b19	b22	b4.3	b8.6	59	21	21	23	8.8	7.8
18	40	18	b15	b19	b4.4	b14	45	19	17	16	8.4	11
19	36	18	b13	b17	b4.5	b21	35	23	14	11	7.8	11
20	32	18	b12	b15	b4.6	b35	31	25	15	9.2	7.2	10
21	28	18	b11	b13	b4.5	b58	37	22	26	24	6.5	9.7
22	24	19	b11	b12	b4.4	344	36	20	24	33	5.8	9.2
23	21	21	b11	b11	b4.2	231	30	17	19	37	5.2	9.0
24	26	22	b15	b10	b4.0	133	27	15	14	36	4.8	8.2
25	35	27	b30	b9.6	b3.9	83	40	14	11	25	4.4	7.4
26	31	81	91	b9.0	b3.9	61	67	11	9.7	17	4.1	8.2
27	26	414	68	b8.6	b3.8	46	59	11	8.4	44	4.0	13
28	22	170	49	b8.2	b3.8	37	50	9.4	7.8	43	4.0	14
29	22	87	b27	b7.6	b3.8	50	56	8.8	7.2	30	3.8	13
30	23	61	b21	b7.2	---	b64	67	8.2	7.0	37	4.0	11
31	22	---	b18	b6.8	---	b68	---	8.4	---	28	10	---
TOTAL	1148.0	1611	824	401.0	136.7	1323.4	2557	718.8	1330.1	545.0	316.9	482.6
MEAN	37.0	53.7	26.6	12.9	4.71	42.7	85.2	23.2	44.3	17.6	10.2	16.1
MAX	130	414	91	28	6.6	344	457	56	314	44	30	72
MIN	7.9	18	11	6.8	3.8	3.6	27	8.2	7.0	6.0	3.8	5.7
CFSM	2.17	3.15	1.56	.76	.28	2.51	5.00	1.36	2.60	1.03	.60	.95
IN.	2.51	3.52	1.80	.88	.30	2.89	5.58	1.57	2.90	1.19	.69	1.05

CAL YR 1979 TOTAL 14837.5 MEAN 40.7 MAX 580 MIN 2.2 CFSM 2.39 IN 32.39
WTR YR 1980 TOTAL 11394.5 MEAN 31.1 MAX 457 MIN 3.6 CFSM 1.83 IN 24.87

b Stage-discharge relationship affected by ice.

Table 1.--Surface-water stage, discharge, and quality--Continued

B-1. LOST BROOK NEAR RAQUETTE LAKE, NY 434604074361401--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT
1	11
2	9.8
3	11
4	12
5	13
6	13
7	12
8	11
9	10
10	9.2
11	8.8
12	8.8
13	8.6
14	8.3
15	7.9
16	7.7
17	7.8
18	9.1
19	12
20	12
21	12
22	16
23	16
24	14
25	17
26	155
27	122
28	64
29	39
30	31
31	---
TOTAL	---
MEAN	---
MAX	---
MIN	---
CFSM	---
IN.	---

Table 1.--Surface-water stage, discharge, and quality--Continued

B-1. LOST BROOK NEAR RAQUETTE LAKE, NY 434604074361401--Continued

WATER QUALITY

Date	Time	Stream-flow, instan-taneous (ft /s)	Spe-cific con-duct-ance (mhos/ cm at 25° C)	pH (field)	Temper-ature (° C)	Solids, residue at 105° C, sus-pended (mg/L)	Solids, vola-tile, sus-pended (mg/L)	Iron, total recov-erable (g/L as Fe)	Lead, total recov-erable (g/L as Pb)	Manga-nese, total recov-erable (g/L as Mn)	Zinc, total recov-erable (g/L as Zn)
NOV , 1977											
04...	0930	62	31	4.7	9.0	--	--	340	12	40	20
DEC											
09...	1400	28	35	5.5	.5	4	--	240	2	50	20
JAN , 1978											
24...	1600	30	40	5.0	.0	--	--	1000	ND	50	20
FEB											
14...	1200	13	34	5.4	.5	6	--	240	ND	30	20
MAR											
06...	1200	10	36	5.8	.5	--	--	320	16	20	40
21...	1000	16	40	5.9	.5	--	--	230	6	20	<20
APR											
29...	1300	152	--	--	--	--	--	160	5	70	20
MAY											
01...	1440	90	--	--	--	--	--	190	2	70	20
23...	1320	69	30	4.9	11.5	--	--	240	5	50	20
JUN											
27...	1430	8.0	32	6.3	--	--	--	540	7	20	<20
29...	1200	8.4	32	6.4	--	--	--	640	20	20	<20
JUL											
24...	1300	3.1	38	6.5	22.0	--	--	2000	5	40	<20
AUG											
16...	1530	6.6	35	6.5	--	0	0	1100	13	20	<20
NOV											
08...	0900	11	34	6.3	--	--	--	280	3	30	40
17...	1030	9.0	36	6.4	--	--	--	290	3	20	30
25...	1415	13	36	6.1	--	--	--	150	3	30	20
DEC											
08...	1015	20	35	5.9	--	--	--	240	6	30	20
16...	1500	15	36	5.8	--	--	--	200	3	20	20
JAN , 1979											
02...	1200	50	40	4.9	--	--	--	390	2	90	30
17...	1200	23	--	--	--	--	--	230	5	40	20
FEB											
13...	1000	5.9	36	6.5	.0	--	--	110	ND	60	30
MAR											
04...	0930	6.6	36	6.4	--	6	0	320	<2	30	20
05...	0800	16	36	6.2	--	7	0	300	2	30	<20
06...	1525	E34	38	4.9	--	13	6	280	<2	80	20
07...	1430	E130	43	4.6	--	9	1	180	<2	110	20
08...	1740	E180	43	4.6	--	1	1	260	<2	100	40
09...	0805	E140	43	4.6	--	2	1	240	<2	110	30
12...	1830	E50	38	4.8	--	2	0	220	2	90	160
19...	0915	E22	36	5.2	--	0	0	160	<2	60	30
22...	1840	E26	34	5.3	--	6	0	170	3	50	80
26...	1230	E400	38	4.7	--	6	0	230	3	80	40
28...	0940	E100	37	4.7	--	11	0	110	5	60	30
APR											
04...	1300	142	37	4.7	--	13	3	210	3	80	20
09...	1630	34	37	4.9	--	2	1	200	ND	70	50
14...	1630	53	35	5.1	--	7	1	200	2	60	40
21...	1415	67	36	4.9	--	2	0	170	ND	60	30
MAY											
01...	1210	97	35	4.6	--	0	0	250	4	60	60
29...	1030	37	--	--	--	7	0	300	2	40	20

E Estimated.
ND No determination.

Table 1.--Surface-water stage, discharge, and quality--Continued

B-2. SAGAMORE LAKE NEAR RAQUETTE LAKE, NY 0426545294

LOCATION.--Lat 43°46'58", long 74°37'38", Hamilton County, Hydrologic Unit 04150305, on right bank 150 ft (46 m) upstream from bridge on private road at Sagamore Conference Center and 3.5 mi (5.6 km) southeast of Raquette Lake.

DRAINAGE AREA.--19.17 mi (49.65 km).

PERIOD OF RECORD.--September 1978 through August 1981.

GAGE.--Vertical, enameled staff gage attached to a log 30 ft (10 m) from right bank.

EXTREMES.--Maximum water stage, 2.41 ft (0.73 m) April 1, 1981; minimum water stage, 0.26 ft (0.08 m) July 26, 1979.

WATER STAGE, IN FEET ABOVE 0.00 DATUM ON LAKE STAFF GAGE

DATE	WATER STAGE	DATE	WATER STAGE	DATE	WATER STAGE
24SEP1978	0.70	12SEP1979	0.93	16OCT1980	0.68
06OCT1978	.82	18SEP1979	1.08	23OCT1980	.95
19OCT1978	1.14	27SEP1979	.66	30OCT1980	1.26
26OCT1978	.88	04OCT1979	.67	06NOV1980	1.60
02NOV1978	.96	11OCT1979	1.30	13NOV1980	1.26
08NOV1978	.80	18OCT1979	1.24	02MAR1981	1.22
17NOV1978	.78	06NOV1979	1.21	24MAR1981	.76
25NOV1978	.84	15NOV1979	1.13	26MAR1981	.78
02DEC1978	.75	06APR1980	1.61	30MAR1981	1.28
16DEC1978	.87	12APR1980	1.76	01APR1981	2.41
19MAR1979	1.11	18APR1980	1.38	04APR1981	1.78
29MAR1979	1.56	23APR1980	1.19	05APR1981	1.85
14APR1979	1.30	26APR1980	1.46	06APR1981	1.78
21APR1979	1.52	06MAY1980	1.18	09APR1981	1.28
25APR1979	2.27	12MAY1980	1.04	16APR1981	1.14
01MAY1979	1.79	15MAY1980	1.15	23APR1981	1.12
04MAY1979	1.53	29MAY1980	.80	27APR1981	1.19
08MAY1979	1.33	05JUN1980	2.14	30APR1981	1.26
13MAY1979	1.28	12JUN1980	1.27	07MAY1981	1.00
23MAY1979	.57	19JUN1980	.89	15MAY1981	1.39
31MAY1979	1.48	26JUN1980	.83	21MAY1981	1.11
07JUN1979	.83	03JUL1980	.75	28MAY1981	.86
15JUN1979	.69	09JUL1980	.72	04JUN1981	.78
21JUN1979	.51	17JUL1980	1.02	11JUN1981	.78
28JUN1979	.42	23JUL1980	1.21	18JUN1981	1.26
06JUL1979	.72	31JUL1980	1.14	25JUN1981	.84
12JUL1979	.49	07AUG1980	.90	29JUN1981	.95
19JUL1979	.34	13AUG1980	.70	02JUL1981	.70
26JUL1979	.26	21AUG1980	.63	09JUL1981	.50
02AUG1979	.61	27AUG1980	.48	15JUL1981	.42
08AUG1979	.46	04SEP1980	1.42	23JUL1981	1.38
17AUG1979	.52	10SEP1980	.80	27JUL1981	.78
23AUG1979	.48	25SEP1980	.70	06AUG1981	.96
30AUG1979	1.94	02OCT1980	.77	13AUG1981	1.33
05SEP1979	.92	10OCT1980	.73	20AUG1981	1.20

Table 1.--Surface-water stage, discharge, and quality--Continued

B-3. SAGAMORE LAKE OUTLET NEAR RAQUETTE LAKE, NY 434556074374401

LOCATION.--Lat 43°45'56", long 74°37'44", Hamilton County, Hydrologic Unit 04150305, on left bank 75 ft (23 m) downstream from bridge on private road at Sagamore Conference Center, 90 ft (27 m) downstream from outlet dam on Sagamore Lake, 0.8 mi (1.3 km) upstream from mouth, and 3.5 mi (5.6 km) southeast of Raquette Lake.

DRAINAGE AREA.--19.17 mi (49.65 km).

PERIOD OF RECORD.--Water discharge from October 1977 through December 1981, water-quality data from November 1977 through May 1979.

GAGE.--A digital recorder and a graphic water-stage recorder both driven by a servo-manometer gas-purge system. Outside reference a vertical, enameled staff gage installed on the left bank 100 ft (30 m) downstream from bridge.

CONTROL.--Stable cobble and gravel riffle extending from the orifice pool to 50 ft downstream. Minor shifting during summer because moss or algae accumulates on the cobbles.

DISCHARGE MEASUREMENTS.--Low to medium flow, less than 250 ft /s (7.1 m /s), 10 ft (3 m) to approximately 100 ft (30 m) downstream from control. High flow, greater than 250 ft /s (7.1 m /s), measurement at a bridge 0.25 mi (0.40 km) downstream from measuring section. All measurements except in winter fair to good; some winter measurements, fair to poor.

EXTREMES.--Maximum discharge, 731 ft /s (20.7 m /s) April 28, 1979; water stage, 6.25 ft (1.905 m). Minimum discharge, 3.75 ft /s (0.11 m /s) July 25 and 26, 1979; water stage, 3.23 ft (0.985 m).

ACCURACY.--Records good, except during winter, fair.

Table 1.--Surface-water stage, discharge, and quality--Continued

B-3. SAGAMORE LAKE OUTLET NEAR RAQUETTE LAKE, NY 434556074374401--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	n130	23	40	b22	48	b12	46	116	24	9.8	22	10
2	n160	22	105	b20	38	b12	65	81	22	8.9	17	9.2
3	n140	21	112	b19	32	b12	91	64	21	8.7	16	8.7
4	98	23	73	b18	29	b12	87	58	20	8.2	39	10
5	81	36	54	b18	26	b12	76	62	19	7.6	45	12
6	64	45	46	b17	24	b12	86	74	19	7.4	32	12
7	50	43	41	b17	22	b11	86	89	19	7.1	23	10
8	40	38	36	b18	b21	b11	73	119	20	6.6	18	9.5
9	43	38	34	79	b20	b11	61	269	23	6.6	14	8.7
10	111	42	31	239	b19	b11	51	388	23	6.6	13	8.2
11	112	76	29	169	b18	b11	49	237	21	6.3	12	12
12	75	115	27	118	b18	b11	91	178	18	6.1	11	122
13	56	77	26	85	b17	b11	165	166	18	5.9	11	158
14	45	54	28	66	b17	b12	231	210	23	5.7	11	76
15	41	43	51	51	b16	b16	179	192	23	5.7	9.8	46
16	45	38	90	41	b16	b22	106	137	21	5.5	9.5	33
17	87	40	85	35	b16	b27	74	122	17	5.5	8.9	27
18	258	57	61	b32	b15	b27	61	121	16	5.7	8.7	22
19	160	65	48	b28	b15	b23	67	109	19	6.1	8.2	19
20	109	54	40	b27	b15	b20	90	96	23	5.9	8.7	17
21	82	47	b34	b26	b14	b19	111	99	23	5.9	9.2	15
22	66	62	b32	b24	b14	b24	100	125	21	5.9	9.5	13
23	57	71	b30	b22	b14	35	88	90	18	5.7	8.9	12
24	49	66	b29	b21	b13	44	93	67	15	5.5	8.7	12
25	43	67	b29	b21	b13	41	114	55	13	5.3	12	11
26	38	63	b40	b25	b13	34	140	47	13	5.1	16	9.8
27	34	51	44	b40	b12	33	169	41	13	5.7	17	8.9
28	31	43	37	69	b12	41	194	36	12	16	15	8.9
29	28	38	b30	89	---	56	202	32	11	21	14	8.9
30	26	34	b27	80	---	57	165	29	10	27	12	8.9
31	24	---	b24	61	---	49	---	26	---	28	11	---
TOTAL	2383	1492	1413	1597	547	729	3211	3535	558	267.0	471.1	738.7
MEAN	76.9	49.7	45.6	51.5	19.5	23.5	107	114	18.6	8.61	15.2	24.6
MAX	258	115	112	239	48	57	231	388	24	28	45	158
MIN	24	21	24	17	12	11	46	26	10	5.1	8.2	8.2
CFSM	4.01	2.59	2.38	2.69	1.02	1.23	5.58	5.95	.97	.45	.79	1.28
IN.	4.62	2.90	2.74	3.10	1.06	1.41	6.23	6.86	1.08	.52	.91	1.43

WTR YR 1978 TOTAL 16941.8 MEAN 46.4 MAX 388 MIN 5.1 CFSM 2.42 IN 32.87

n No gage-height record.
b Stage-discharge relationship affected by ice.

Table 1.--Surface-water stage, discharge, and quality--Continued

B-3. SAGAMORE LAKE OUTLET NEAR RAQUETTE LAKE, NY 434556074374401--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.9	26	12	b16	b14	9.6	297	119	59	6.8	7.1	60
2	8.9	23	12	b79	b13	9.8	217	93	46	11	8.7	37
3	8.4	21	12	204	b12	10	180	74	34	14	9.8	32
4	8.4	19	13	133	b11	10	149	80	26	15	9.8	28
5	8.2	17	16	b82	b11	18	109	101	22	13	8.9	23
6	10	17	19	b58	b10	36	79	81	20	13	8.4	29
7	17	16	20	b46	b10	156	62	65	18	11	7.6	130
8	20	16	22	b38	b 9.8	175	54	57	16	10	7.1	107
9	19	14	35	b30	b,d9.8	140	48	62	16	9.2	6.4	59
10	17	14	46	b26	b,d9.8	107	44	73	14	8.4	6.6	38
11	15	13	40	24	b,d9.6	81	38	69	13	7.6	7.9	28
12	14	13	b32	22	b,d9.6	63	35	60	13	7.1	8.2	22
13	13	12	b25	20	b,d9.6	48	36	52	12	6.8	7.9	19
14	26	12	b23	21	b,d9.4	43	44	48	12	6.3	7.9	19
15	125	12	b20	23	b,d9.2	44	68	43	12	6.1	6.8	44
16	101	12	b18	b28	b,d9.0	48	70	37	11	5.9	6.8	59
17	59	12	b16	b29	b,d9.0	48	71	33	10	5.5	6.8	45
18	41	17	b15	b25	b,d8.8	41	73	30	9.5	5.3	6.8	33
19	33	32	b14	b21	d9.0	34	70	26	8.7	4.9	7.4	25
20	28	34	b14	b18	d9.2	32	68	25	8.4	4.5	7.6	20
21	25	28	b14	b18	d9.4	30	69	21	7.9	4.2	7.4	17
22	22	22	b14	b19	d9.4	32	85	23	7.4	4.1	7.1	15
23	21	19	b15	b19	d9.0	44	113	23	7.1	3.9	6.8	13
24	20	18	b15	b19	d9.4	87	168	23	6.8	3.9	6.6	12
25	19	17	b14	b19	d10	354	205	29	6.8	3.8	11	11
26	19	15	b15	b18	d10	357	d315	42	6.6	3.9	32	10
27	34	13	b14	b17	d10	197	d450	44	6.4	5.3	40	10
28	56	13	b13	b17	d9.8	113	d635	45	6.4	5.9	55	9.8
29	51	13	b12	b16	---	79	d315	46	6.1	5.7	48	10
30	39	13	b12	b15	---	70	d175	49	6.1	5.5	106	11
31	32	---	b12	b15	---	145	---	63	---	5.5	126	---
TOTAL	918.8	523	574	1135	279.8	2661.4	4342	1636	448.2	223.1	600.4	975.8
MEAN	29.6	17.4	18.5	36.6	9.99	85.9	145	52.8	14.9	7.20	19.4	32.5
MAX	125	34	46	204	14	357	635	119	59	15	126	130
MIN	8.2	12	12	15	8.8	9.6	35	21	6.1	3.8	6.4	9.8
CFSM	1.54	.91	.97	1.91	.52	4.48	7.56	2.75	.78	.38	1.01	1.70
IN.	1.78	1.01	1.11	2.20	.54	5.16	8.43	3.17	.87	.43	1.17	1.89

CAL YR 1978 TOTAL 13669.6 MEAN 37.5 MAX 388 MIN 5.1 CFSM 1.96 IN 26.52
WTR YR 1979 TOTAL 14317.5 MEAN 39.2 MAX 635 MIN 3.8 CFSM 2.05 IN 27.78

b Stage-discharge relationship affected by ice.
d Doubtful water-stage record.

Table 1.--Surface-water stage, discharge, and quality--Continued

B-3. SAGAMORE LAKE OUTLET NEAR RAQUETTE LAKE, NY 434556074374401--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	26	55	23	b7.6	b4.4	64	65	21	12	32	13
2	10	26	45	b20	b7.4	b4.3	61	57	32	13	33	21
3	10	40	38	b18	b7.0	b4.2	57	51	79	12	36	52
4	10	54	33	b16	b6.8	b4.2	58	46	298	11	33	61
5	11	51	31	b14	b6.4	b4.5	90	39	170	10	28	43
6	68	43	29	b12	b6.2	b5.0	83	38	93	10	26	28
7	149	36	30	b,n12	b6.0	b6.4	64	34	62	9.6	23	21
8	94	35	30	b,n12	b6.0	b6.4	71	32	51	10	20	16
9	63	33	28	b,n12	b5.8	b6.4	326	30	60	12	17	13
10	57	52	26	b,n14	b5.6	b6.0	556	28	69	13	14	12
11	50	79	25	b,n25	b5.6	b5.8	277	26	58	12	13	11
12	43	64	33	b,n70	b5.4	b5.8	133	25	47	12	12	9.6
13	41	50	56	b,n60	b5.4	b5.8	122	25	38	12	12	8.9
14	41	42	56	b,n50	b5.4	b5.8	115	30	29	12	14	9.6
15	39	35	45	b,n40	b5.4	b6.4	103	33	24	11	15	11
16	44	30	38	b,n33	b5.4	b7.6	124	32	26	17	15	12
17	47	27	30	b,n27	b5.4	8.2	81	28	27	28	14	11
18	43	24	25	b,n22	b5.2	11	63	25	23	28	13	13
19	41	24	21	b,n19	b5.2	14	51	28	20	21	12	14
20	39	23	19	b,n17	b5.2	20	46	29	20	17	11	15
21	34	23	17	b,n15	b5.4	30	46	28	27	23	10	14
22	30	23	17	b,n13	b5.6	127	48	26	30	39	9.3	13
23	27	26	17	b,n12	b6.0	157	44	23	27	44	8.6	13
24	29	27	21	b12	b5.6	113	40	22	21	45	7.9	12
25	36	30	42	b11	b5.4	80	43	19	18	39	7.3	11
26	36	60	79	b10	b5.2	58	64	17	15	29	7.0	11
27	32	421	68	b9.8	b4.9	45	69	15	16	39	7.0	13
28	28	220	49	b9.4	b4.7	36	59	13	12	50	6.7	16
29	28	113	40	b8.8	b4.6	39	59	13	11	43	6.4	17
30	28	74	32	b8.4	---	52	69	12	10	43	6.7	16
31	28	---	27	b8.0	---	64	---	13	---	41	9.3	---
TOTAL	1247	1811	1102	633.4	165.8	943.2	3086	902	1434	717.6	479.2	531.1
MEAN	40.2	60.4	35.5	20.4	5.72	30.4	103	29.1	47.8	23.1	15.5	17.7
MAX	149	421	79	70	7.6	157	556	65	298	50	36	61
MIN	10	23	17	8.0	4.6	4.2	40	12	10	9.6	6.4	8.9
CFSM	2.10	3.15	1.85	1.06	.30	1.59	5.37	1.52	2.49	1.21	.81	.92
IN.	2.42	3.51	2.14	1.23	.32	1.83	5.99	1.75	2.78	1.39	.93	1.03

CAL YR 1979 TOTAL 16461.7 MEAN 45.1 MAX 635 MIN 3.8 CFSM 2.35 IN 31.94
WTR YR 1980 TOTAL 13052.3 MEAN 35.7 MAX 556 MIN 4.2 CFSM 1.86 IN 25.33

b Stage-discharge relationship affected by ice.
n No water-stage record.

Table 1.--Surface-water stage, discharge, and quality--Continued

B-3. SAGAMORE LAKE OUTLET NEAR RAQUETTE LAKE, NY 434556074374401--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	30	24	b9.4	b7.2	52	242	47	18	15	32	8.2
2	13	29	22	b9.0	b11	45	350	42	16	12	23	8.2
3	13	25	34	b8.6	15	41	199	33	15	11	17	9.6
4	15	23	51	b8.2	17	33	125	28	14	9.6	14	12
5	16	50	43	b7.8	22	28	124	24	13	8.9	15	14
6	16	85	31	b7.4	28	26	118	23	12	9.6	23	13
7	16	71	25	b7.2	28	25	81	22	12	9.3	26	12
8	15	95	23	b7.0	24	23	57	21	11	8.6	24	12
9	13	139	43	b7.0	22	22	48	20	12	7.6	41	22
10	12	120	74	b6.8	18	21	55	18	14	7.6	55	36
11	11	95	69	b6.8	21	21	57	18	15	6.7	50	56
12	11	65	51	b6.6	35	20	61	28	15	6.2	58	69
13	10	46	41	b6.6	81	20	58	70	13	5.9	59	58
14	10	39	34	b6.6	97	18	49	83	13	5.7	54	44
15	9.8	33	28	b6.6	91	18	43	63	23	5.7	50	33
16	9.8	28	25	b6.4	76	17	38	76	42	5.7	55	24
17	9.8	23	23	b6.4	64	17	33	87	48	5.4	64	20
18	10	22	21	b6.4	55	17	45	71	51	5.2	58	26
19	13	21	20	b6.4	54	16	77	56	39	5.2	44	41
20	14	19	19	b6.2	141	15	69	44	28	5.4	29	39
21	15	18	17	b6.2	536	15	50	36	22	20	22	32
22	17	17	16	b6.2	378	14	38	31	19	64	16	43
23	20	16	16	b6.2	321	13	30	27	19	65	14	92
24	20	16	b14	b6.2	350	13	29	23	18	41	12	145
25	20	23	b13	b6.2	307	13	31	21	17	26	12	136
26	112	31	b12	b6.2	147	13	34	19	24	18	11	85
27	156	30	b12	b6.4	87	13	34	19	31	17	10	61
28	93	28	b11	b6.4	61	14	33	17	31	15	9.3	53
29	58	28	b11	b6.6	---	16	32	16	24	28	8.9	48
30	42	28	b10	b6.6	---	42	43	17	18	51	8.6	43
31	32	---	b9.6	b6.8	---	259	---	18	---	47	8.2	---
TOTAL	836.4	1293	842.6	213.4	3094.2	920	2283	1118	647	548.3	923.0	1295.0
MEAN	27.0	43.1	27.2	6.88	111	29.7	76.1	36.1	21.6	17.7	29.8	43.2
MAX	156	139	74	9.4	536	259	350	87	51	65	64	145
MIN	9.8	16	9.6	6.2	7.2	13	29	16	11	5.2	8.2	8.2
CFSM	1.41	2.25	1.42	.36	5.79	1.55	3.97	1.88	1.13	.92	1.56	2.25
IN.	1.62	2.51	1.64	.41	6.00	1.79	4.43	2.17	1.26	1.06	1.79	2.51

CAL YR 1980 TOTAL 11864.3 MEAN 32.4 MAX 556 MIN 4.2 CFSM 1.69 IN 23.02
WTR YR 1981 TOTAL 14013.9 MEAN 38.4 MAX 536 MIN 5.2 CFSM 2.00 IN 27.19

b Stage-discharge relationship affected by ice.

Table 1.--Surface-water stage, discharge, and quality--Continued

B-3. SAGAMORE LAKE OUTLET NEAR RAQUETTE LAKE, NY 434556074374401--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC
1	36	69	23
2	35	55	24
3	34	47	24
4	34	42	24
5	34	38	23
6	34	38	21
7	50	43	19
8	85	43	19
9	103	39	19
10	84	33	18
11	61	30	17
12	48	28	17
13	40	25	16
14	33	23	16
15	29	23	16
16	27	24	16
17	24	27	16
18	24	30	15
19	36	32	15
20	45	40	14
21	43	62	13
22	39	66	13
23	36	54	14
24	45	43	17
25	47	32	19
26	43	28	19
27	102	28	17
28	504	31	17
29	397	32	17
30	175	28	16
31	97	---	15
TOTAL	2424	1133	549
MEAN	78.2	37.8	17.7
MAX	504	69	24
MIN	24	23	13
CFSM	4.08	1.97	.92
IN.	4.70	2.20	1.07

CAL YR 1981 TOTAL 15147.9 MEAN 41.5 MAX 536 MIN 5.2 CFSM 2.17 IN 29.39

Table 1.--Surface-water stage, discharge, and quality--Continued

B-3. SAGAMORE LAKE OUTLET NEAR RAQUETTE LAKE, NY 434556074374401--Continued

WATER QUALITY

Date	Time	Stream-flow, instan-taneous (ft /s)	Spe-cific con-duct-ance (mhos/ cm at 25° C)	pH (field)	Temper-ature (° C)	Solids, residue at 105° C, sus-pended (mg/L)	Solids, vola-tile, sus-pended (mg/L)	Iron, total recov-erable (g/L as Fe)	Lead, total recov-erable (g/L as Pb)	Manga-nese, total recov-erable (g/L as Mn)	Zinc, total recov-erable (g/L as Zn)
NOV , 1977											
03...	0800	21	--	--	--	--	--	50	3	<10	20
04...	1050	22	32	4.2	9.0	--	--	420	8	70	20
DEC											
02...	0840	94	32	4.7	2.5	8	--	430	3	70	20
JAN , 1978											
24...	1745	23	35	4.5	.0	--	--	260	ND	70	20
FEB											
14...	1200	17	33	4.8	.5	0	--	270	ND	60	20
MAR											
06...	1345	13	34	5.5	.5	--	--	280	12	40	20
21...	1700	19	37	5.9	.5	--	--	250	ND	40	ND
APR											
10...	1430	53	34	5.5	1.0	--	--	210	36	50	40
13...	0900	167	--	--	--	--	--	240	11	60	20
14...	0900	234	--	--	--	--	--	230	7	60	30
15...	0900	154	--	--	--	--	--	210	9	60	40
26...	0900	142	--	--	--	--	--	220	17	60	20
27...	0900	169	--	--	--	--	--	190	23	60	20
28...	0900	198	--	--	--	--	--	340	10	180	20
29...	0900	201	--	--	--	--	--	110	5	60	20
MAY											
03...	1550	62	32	5.4	4.0	--	--	200	3	60	20
10...	1200	553	--	--	--	--	--	390	4	50	20
12...	1200	195	--	--	--	--	--	320	8	60	30
13...	1200	162	--	--	--	--	--	350	19	60	20
14...	1200	220	--	--	--	--	--	380	8	50	30
16...	1700	127	--	--	--	--	--	580	6	550	30
17...	1400	123	--	--	--	--	--	330	6	190	20
18...	1201	102	--	--	--	--	--	410	5	250	20
19...	2000	93	--	--	--	--	--	260	6	70	20
20...	1900	109	--	--	--	--	--	340	6	120	20
22...	1900	118	--	--	--	--	--	290	9	50	<20
23...	1515	90	30	5.1	--	--	--	260	7	50	20
24...	1700	65	--	--	--	--	--	230	3	50	20
25...	1700	53	--	--	--	--	--	170	9	50	20
28...	0700	36	--	--	--	--	--	190	11	50	<20
JUN											
27...	1525	13	30	6.6	20.0	--	--	140	7	40	<20
29...	1000	11	28	6.0	21.0	--	--	140	11	40	<20
AUG											
16...	1100	8.9	31	6.4	22.0	0	0	230	18	30	20
28...	1125	15	33	6.1	18.5	0	0	190	10	30	40
30...	1200	13	34	6.2	15.5	0	0	750	--	<10	30
SEP											
14...	1530	68	31	6.1	16.5	2	0	260	8	50	ND
20...	1400	19	33	5.6	16.0	0	0	220	36	40	20
27...	1330	9.2	37	6.3	15.0	0	0	190	<2	50	20

ND No determination.

Table 1.--Surface-water stage, discharge, and quality--Continued

B-3. SAGAMORE LAKE OUTLET NEAR RAQUETTE LAKE, NY 434556074374401--Continued

WATER QUALITY

Date	Time	Stream-flow, instan-taneous (ft /s)	Spe-cific con-duct-ance (mhos/ cm at 25° C)	pH (field)	Temper-ature (° C)	Solids, residue at 105° C, sus-pended (mg/L)	Solids, vola-tile, sus-pended (mg/L)	Iron, total recov-erable (g/L as Fe)	Lead, total recov-erable (g/L as Pb)	Manga-nese, total recov-erable (g/L as Mn)	Zinc, total recov-erable (g/L as Zn)
OCT, 1978											
08...	1500	20	--	--	--	1	0	270	17	60	ND
10...	0900	17	--	--	--	1	0	320	--	<10	ND
13...	1200	13	--	--	--	--	--	240	27	60	20
14...	1200	23	--	--	--	1	0	290	6	50	30
26...	1020	19	--	--	--	--	--	500	2	50	60
NOV											
02...	1150	23	31	5.4	7.5	--	--	500	<2	50	50
08...	0930	16	31	5.9	--	--	--	480	4	60	<20
17...	0945	12	33	6.2	--	--	--	470	7	70	20
25...	1315	17	32	6.1	--	--	--	420	5	60	20
DEC											
08...	1000	23	32	5.7	--	--	--	420	<2	40	20
16...	1500	20	33	5.7	--	--	--	40	4	40	20
JAN , 1979											
02...	1000	46	--	--	--	--	--	350	6	40	30
17...	1600	29	--	--	--	--	--	280	ND	60	20
FEB											
13...	1530	9.7	36	5.5	--	--	--	280	ND	30	40
MAR											
04...	1000	E10	37	6.1	--	4	0	330	2	50	<20
06...	1510	48	36	6.0	--	0	0	310	2	40	20
07...	1500	183	34	5.9	--	5	0	380	2	50	20
08...	1215	175	35	5.7	--	0	0	290	<2	60	30
09...	0915	149	35	5.6	--	3	1	240	3	60	20
12...	1800	60	36	5.1	--	0	0	240	2	90	20
19...	1050	36	36	5.2	--	4	4	190	2	80	70
22...	1915	34	36	5.3	--	4	0	260	5	70	20
26...	1215	357	33	5.3	--	18	0	250	5	70	20
28...	1315	115	34	5.1	--	8	0	230	7	80	20
APR											
04...	1100	138	35	4.8	--	6	2	230	4	80	30
09...	1645	48	29	4.8	--	2	0	200	ND	70	30
14...	1700	49	37	4.9	--	1	0	270	2	80	40
21...	1330	72	34	5.7	--	1	0	330	10	60	80
27...	1530	E450	31	5.7	--	6	0	400	17	60	220
29...	1330	E315	30	5.3	--	10	9	370	2	70	20
MAY											
01...	1310	116	30	5.1	--	3	0	320	4	70	30
08...	1145	57	29	5.2	--	10	7	320	5	70	30
21...	0930	21	28	5.3	--	4	0	250	ND	70	40
29...	0900	48	--	--	--	6	0	180	<2	50	30

E Estimated.
ND No determination.

Table 1.--Surface-water stage, discharge, and quality--Continued

C-1. WOODS LAKE TRIBUTARY NEAR BIG MOOSE, NY 04256480

LOCATION.--Lat 43°52'17", long 74°57'17", Herkimer County, Hydrologic Unit 04150101, on right bank 65 ft (20 m) upstream from mouth at Woods Lake, and 4.2 mi (6.8 km) northwest of Big Moose.

DRAINAGE AREA.--0.12 mi (0.19 km).

PERIOD OF RECORD.--Intermittently from October 1979 through January 5, 1982 (seasonal).

GAGE.--Digital recorder driven by a float in a 6-in. (15.2-cm) diameter well attached by a 1.25-in. (3.2-cm) diameter pipe to a Parshall flume. Outside reference a vertical, enameled staff gage attached to the flume wall.

CONTROL.--Aluminum Parshall flume [9-in. (22.9-cm) throat x 15 in. (38.1 cm) deep]. Flows greater than 4.1 ft /s (0.116 m /s) topped the flume.

DISCHARGE MEASURMENTS.--None.

ACCURACY.--Records good when instantaneous discharge was less than 4.1 ft /s.

REMARKS.--Lowest recordable 0.04 ft (0.01 m) because intake is that distance above flume floor; corresponding minimum recorded discharge 0.02 ft /s (<.001 m /s) July 18-19, 1981, August 27-30, 1981, and September 7-9 and 12-13, 1981.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	0.22					(f)	(n)	0.57	0.07	0.20	0.12
2	---	.32					(f)	(n)	.44	.05	.22	.18
3	---	.35					(f)	(n)	.70	.05	.18	.18
4	---	.28					(f)	(n)	.88	.05	.17	.07
5	---	.24					(f)	(n)	.44	.05	.13	.04
6	---	.22					(f)	.15	.26	.05	.13	.03
7	---	.24					(f)	.15	.35	.05	.13	(w)
8	---	.24					(f)	.15	.44	.08	.13	(w)
9	---	.24					(f)	.15	.85	.09	.13	(w)
10	---	.76					(f)	.15	.49	.05	.13	.05
11	---	.62					.85	.12	.30	.04	.13	.03
12	---	.39					.76	.12	.24	.04	.12	(w)
13	---	.28					1.5	.15	.17	.04	.10	(w)
14	---	.26					.70	.17	.13	.03	.10	.35
15	---	.24					1.5	.13	.15	(w)	.15	.17
16	---	.22					.82	.12	.18	(w)	.12	.08
17	---	.20					.52	.09	.12	.04	.10	.12
18	---	.20					.39	.13	.10	.05	.09	.22
19	---	.22					.30	.39	.09	.05	.07	.12
20	---	.22					.26	.24	.20	.05	.07	.10
21	---	.22					.24	.20	.17	.26	.07	.09
22	---	.35					.22	.15	.13	.65	.05	.15
23	.22	.39					.20	.13	.10	.59	.05	.13
24	.39	.39					.18	.12	.10	.35	.05	.10
25	.37	.67					.24	.09	.08	.20	.05	.08
26	.28	(t)					.28	.08	.07	.15	.04	.28
27	.24	(t)					(n)	.07	.04	.24	(w)	.39
28	.22	.88					(n)	.07	.04	.15	(w)	.24
29	.39	(f)					(n)	.05	.04	.24	(w)	.17
30	.30	(f)					(n)	.05	.05	.26	(w)	.12
31	.26	---					---	.32	---	.18	.10	---

t Flume overtopped during the day.
w Water level below intake to stilling well; discharge 0.02 ft /s (<0.001 m /s).
f Stilling well frozen.
n No water-stage record.

Table 1.--Surface-water stage, discharge, and quality--Continued

C-1. WOODS LAKE TRIBUTARY NEAR BIG MOOSE, NY 04256480--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.10	0.35					1.9	0.35	0.07	0.08	(n)	(n)
2	.11	.30					1.9	.28	.05	.08	(n)	(n)
3	.12	.26					.82	.24	.04	.08	(n)	(n)
4	.10	.57					.65	.20	.04	.08	(n)	(n)
5	.10	2.0					.57	.18	.07	.10	(n)	(n)
6	.08	.73					.44	.18	.13	.26	(n)	(n)
7	.08	.65					.35	.17	.12	.10	.07	(n)
8	.08	(t)					.30	.15	.07	.08	.15	(n)
9	.07	1.4					.26	.13	.15	.05	.76	(n)
10	.07	.97					.28	.12	.18	.05	.73	(n)
11	.08	.65					.32	.17	.09	.05	1.1	(n)
12	.18	.44					.39	.32	.07	.05	.97	(n)
13	.15	.32					.37	.26	.08	.05	.46	(n)
14	.12	.35					.32	.18	.05	.04	.35	(n)
15	.10	.37					.30	.22	.32	.03	.46	(n)
16	.10	.28					.30	.46	.17	.03	1.1	(n)
17	.10	.26					.30	.49	.57	.03	.67	(n)
18	.18	.22					.42	.35	.49	.02	.39	(n)
19	.15	.20					.42	.26	.28	.02	.26	(n)
20	.15	.18					.39	.20	.17	.07	.18	(n)
21	.20	.17					.35	.18	.17	1.2	.15	(n)
22	.37	.15					.29	.17	.30	.91	.09	(n)
23	.28	.15					.30	.13	.79	.44	.09	(n)
24	.20	.28					.42	.12	.42	.30	.10	(n)
25	.44	.59					.44	.10	.30	.24	.10	(n)
26	1.8	.42					.39	.12	.32	.15	.08	(n)
27	.85	.30					.32	.09	.32	.13	.07	.39
28	.49	.30					.28	.09	.20	.16	.05	.49
29	.39	.32					.42	.08	.15	.46	.05	.39
30	.28	.26					.42	.09	.09	(n)	(n)	.30
31	.26	---					---	.10	---	(n)	(n)	---

t Flume overtopped during the day.
n No water-stage record.

Table 1.--Surface-water stage, discharge, and quality--Continued

C-1. WOODS LAKE TRIBUTARY NEAR BIG MOOSE, NY 04256480--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN
1	0.24	0.32	---	0.13
2	.26	.28	---	.12
3	.28	.26	.24	.12
4	.30	.24	.22	.54
5	.26	.22	.22	.76
6	.30	.44	.18	---
7	1.0	.30	.22	---
8	1.5	.24	.18	---
9	.70	.26	.17	---
10	.44	.46	.17	---
11	.32	(n)	.17	---
12	.26	(n)	.15	---
13	.24	(n)	.13	---
14	.22	(n)	.12	---
15	.18	(n)	.12	---
16	.18	(n)	.10	---
17	.18	(n)	.10	---
18	.22	(n)	.10	---
19	.62	(n)	.10	---
20	.46	(n)	.09	---
21	.46	(n)	.08	---
22	.37	(n)	.07	---
23	.54	(n)	.20	---
24	.76	(n)	.15	---
25	.42	(n)	.15	---
26	(t)	(n)	.15	---
27	(t)	(n)	.15	---
28	1.9	(n)	.15	---
29	.76	(n)	.13	---
30	.49	(n)	.13	---
31	.39	---	.13	---

t Flume overtopped during the day.
n No water-stage record.

Table 1.--Surface-water stage, discharge, and quality--Continued

C-2. WOODS LAKE NEAR BIG MOOSE, NY 04256484

LOCATION.--Lat 43°51'57", long 74°57'20", Herkimer County, Hydrologic Unit 04150101, on left bank, just upstream from dam at lake outlet and 3.6 mi (5.8 km) northwest of Big Moose.

DRAINAGE AREA.--0.80 mi (2.07 km).

PERIOD OF RECORD.--October 1978 through December 1981.

GAGE.--Digital recorder driven by servo-manometer gas-purge system. Outside reference a vertical, enameled staff gage (base gage) attached to tree stump on right bank 15 ft (4.5 m) from dam.

CONTROL.--Log dam at outlet. Have removed numerous beaver dams built on control since installation of recording equipment.

EXTREMES.--Maximum water stage 2.12 ft (0.646 m) October 27 and 28, 1978, prior to removal of original beaver dam October 28 and 30, 1978. Minimum water stage 0.25 ft (0.076 m) September 1-2, 1981.

ACCURACY.--Accuracy good. Several days record lost because equipment failed. Overall accuracy fair to poor.

WATER STAGE (FEET ABOVE DATUM), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	0.86	0.84	0.79	0.63	---	---	0.71	0.67	0.42	0.44	0.62
2	---	.71	.83	1.10	.62	---	o.93	.65	.64	.44	.49	.60
3	---	.64	.83	.92	.62	---	---	.64	.61	.47	.58	.69
4	o1.66	.59	.84	.81	.62	---	---	.69	.59	.47	.57	r.70
5	---	.58	.85	.76	.63	---	o.80	.69	.58	.46	.57	.65
6	---	.58	.85	.70	.62	o1.12	.79	.67	.57	.46	.54	.83
7	---	.57	.84	.67	.62	o1.00	.76	.65	.57	.46	.52	1.02
8	---	.57	.86	.67	.61	o.82	.70	.63	---	.46	.53	.82
9	---	.57	.99	.65	.61	o.73	.67	.62	---	.45	.51	.70
10	---	.57	.97	.63	.60	---	.66	.61	---	.45	.53	.63
11	---	.58	.91	.62	.58	---	.63	.60	---	.44	.56	.60
12	---	.59	.86	.60	.57	---	.62	.60	o.58	.44	.55	.60
13	---	.59	.82	.60	.56	---	.62	.63	---	.44	.52	.58
14	---	.61	.82	.66	.55	---	.72	.63	---	.44	.51	.63
15	---	.64	.79	.72	---	---	.79	.61	---	.43	.51	.82
16	---	.66	.76	.72	---	---	.79	.60	---	.44	r.53	.80
17	---	.68	.77	.69	---	---	.77	.59	---	.44	.52	.74
18	1.95	.79	.77	.68	---	---	.77	.57	r.50	.42	.51	r.70
19	1.95	.84	.74	.65	---	o1.68	.76	.57	.49	.41	.51	.69
20	1.95	.87	.73	.63	---	---	.75	.55	.47	.39	r.52	.67
21	1.95	.88	.76	.68	---	---	.77	.55	.46	.38	.52	.64
22	1.95	.88	.76	.72	---	o.70	.83	.55	.44	.36	.51	.62
23	1.95	.88	.74	.71	---	---	.88	.55	.43	.36	.49	.59
24	1.95	.92	.73	.67	---	---	.90	.55	.43	.34	.49	.57
25	1.96	.90	.78	.70	---	o1.25	.89	.57	.43	.32	.55	.55
26	1.97	.88	.80	.68	---	---	.87	.59	.42	.33	.57	.54
27	2.11	.88	.77	.66	---	---	.89	.63	.40	.37	r.67	.53
28	r2.09	.88	.74	.65	---	---	1.03	.64	.40	.38	.68	.52
29	2.05	.87	.72	.64	---	o.70	.88	.63	.40	.37	.64	.53
30	r1.91	.85	.71	.63	---	---	.77	.64	.40	.37	r.69	.53
31	1.15	---	.70	.63	---	o1.05	---	.68	---	.36	.66	---
MEAN	---	.73	.80	.70	---	---	---	.62	---	.41	.55	.66
MAX	---	.92	.99	1.10	---	---	---	.71	---	.47	.69	1.02
MIN	---	.57	.70	.60	---	---	---	.55	---	.32	.44	.52

o Water-stage readings made by technicians from the University of Virginia.
r Beaver dam removed at outlet.

Table 1.--Surface-water stage, discharge, and quality--Continued

C-2. WOODS LAKE NEAR BIG MOOSE, NY 04256484--Continued

WATER STAGE (FEET ABOVE DATUM), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.54	0.65	0.70	0.63	0.56	0.44	0.78	0.63	0.67	0.54	0.65	0.55
2	.54	.65	.66	.62	.54	.44	.77	.63	.70	.53	---	.60
3	.55	.68	.63	.61	.53	.43	.73	.62	.74	.54	---	.64
4	.56	.68	.61	.60	.53	.43	.76	.60	.81	.53	---	.63
5	.56	.67	.60	.59	.52	.43	.86	.59	.76	.52	---	.62
6	.66	.65	.59	.59	.52	.44	.79	r.59	.70	.51	o,r.64	.60
7	.69	.64	.61	.57	.52	.44	.75	.58	.68	.49	---	.58
8	.71	.64	.64	.58	.51	.46	.80	.57	.69	.51	---	.56
9	.73	.64	.64	.58	.51	.47	1.00	.57	.76	r.53	---	.55
10	.75	.72	.64	.58	.51	.47	1.05	.57	.74	.52	---	.56
11	.74	.74	.61	.60	.50	.48	.90	.56	.69	.51	---	.55
12	.71	.72	.68	.76	.50	.42	.81	.56	.65	.51	o.55	.54
13	.71	.68	.79	.75	.50	.39	.86	.57	.63	.50	---	.52
14	.72	.67	.76	.72	.50	.44	.80	.58	.62	.49	---	.63
15	.71	.64	.71	.71	.50	.43	.85	.58	.62	.48	---	.68
16	.75	.63	.67	.69	.50	.42	.84	.58	.63	.54	---	.68
17	.75	.62	.66	.66	.49	.42	.76	.57	.62	.56	---	.69
18	.74	.61	.64	.64	.48	.55	.71	.57	.60	.56	o.55	.73
19	.70	.61	.62	.63	.46	.58	.67	.64	.60	.55	---	.74
20	.68	.61	.60	.62	.45	.58	.65	.66	.63	.54	---	.74
21	.68	.61	.59	.61	.44	.62	.64	.64	.64	.60	---	.75
22	.67	.62	.58	.61	.44	.83	.62	.63	.64	.69	---	r.79
23	.65	.66	.58	.61	.42	.80	.60	.61	.64	.77	---	.79
24	.67	.67	.61	.59	.42	.73	.60	.60	.63	o.74	---	.71
25	.68	.70	.74	.59	.42	.72	.60	.58	.62	.68	---	.65
26	.68	.83	.85	.59	.42	.70	.62	.54	r.60	.64	o.49	.67
27	.66	1.01	.80	.58	.43	.65	.63	.52	.56	.65	.48	.68
28	.64	.88	.73	.58	.44	.63	.62	.50	.54	.63	.48	.66
29	.66	.79	.69	.58	.44	.68	.63	.50	.53	.63	.48	.63
30	.66	.75	.66	.58	---	.76	.63	.48	.53	.66	.48	.62
31	.66	---	.65	.57	---	.82	---	.51	---	.64	.53	---
MEAN	.67	.69	.66	.62	.48	.55	.74	.58	.65	.57	---	.64
MAX	.75	1.01	.85	.76	.56	.83	1.05	.66	.81	.77	---	.79
MIN	.54	.61	.58	.57	.42	.39	.60	.48	.53	.48	---	.52

o Water-stage readings made by technicians from the University of Virginia.
r Beaver dam removed at outlet.

Table 1.--Surface-water stage, discharge, and quality--Continued

C-2. WOODS LAKE NEAR BIG MOOSE, NY 04256484--Continued

WATER STAGE (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.60	0.64	0.67	0.60	0.61	e0.68	1.00	0.66	0.60	0.92	0.71	0.26
2	.61	.64	.66	.60	.74	e.66	1.01	.64	.64	.73	.65	.26
3	.62	.63	.83	.58	e.74	e.63	.88	.63	r.61	.66	.64	.32
4	.63	.67	.80	.58	e.71	e.61	.80	.62	.58	.63	.60	.37
5	.63	.85	.71	.57	e.74	e.59	.75	.61	.60	.62	.59	.39
6	.63	.82	.66	.57	e.68	e.57	.71	.60	.62	.68	.59	.41
7	.63	.80	.63	.58	e.66	e.55	.68	.58	.65	r.68	.58	.39
8	.61	.97	.68	.55	e.65	e.54	.66	.58	.64	.63	.58	.43
9	.59	.91	.91	.55	e.66	e.52	.66	.57	.67	.60	.73	.57
10	.56	.87	.85	.54	e.65	e.45	.67	.57	.70	.60	.81	.60
11	.57	.82	.78	.54	e.72	e.52	.69	.57	.71	.58	.87	.78
12	.59	.75	.72	.53	e.88	e.53	.70	.61	.71	.56	.93	.82
13	.61	.70	.71	.56	e.86	e.52	.68	.62	.73	.61	.77	.80
14	.61	.69	.68	.53	e.78	e.51	.67	.61	.74	r.60	.67	.71
15	.60	.67	.67	.54	e.78	e.51	.65	.61	.85	.61	.65	.65
16	.59	.65	.66	.54	e.74	e.52	.64	.65	.89	.57	.74	.61
17	.59	.63	.65	.55	e.72	e.51	.64	.67	1.08	.58	.72	.59
18	.62	.64	.62	.55	e.71	e.50	.76	.65	1.17	.57	.67	.59
19	.62	.62	.59	.56	e.73	e.50	.78	.64	1.17	.56	.62	.57
20	.61	.61	.57	.56	e.84	e.50	.73	r.61	1.15	.55	.57	.57
21	.61	.61	.57	.55	e1.09	e.50	.68	.59	1.14	.86	.54	.57
22	.64	.61	.57	.56	e1.16	e.49	.66	.57	---	.97	.49	.67
23	.64	.60	.58	.58	e1.06	e.48	.65	.56	---	.92	.48	.78
24	.63	.62	.58	.62	e1.02	e.48	.67	.56	---	.86	.47	.91
25	.65	.70	.58	.57	e1.06	e.49	.68	.57	---	.84	.41	.81
26	.88	.70	.58	.58	e.96	e.49	.68	.56	---	.78	.38	.73
27	.90	.68	.59	.58	e.82	e.50	.67	.58	---	.79	.37	.71
28	.81	.69	.58	.58	e.73	e.52	.65	.58	---	.76	.36	.71
29	.72	.69	.59	.59	---	e.57	.66	.58	---	.83	.33	.68
30	.68	.68	.60	.59	---	e.86	.67	.58	r1.26	.81	.29	.65
31	.65	---	.60	.59	---	e1.11	---	.60	---	.76	.28	---
MEAN	.64	.71	.66	.57	.80	.56	.71	.60	---	.70	.58	.60
MAX	.90	.97	.91	.62	1.16	1.11	1.01	.67	---	.97	.93	.91
MIN	.56	.60	.57	.53	.61	.45	.64	.56	---	.55	.28	.26

e Water-stage estimated, recorder malfunctioned intermittently.
r Beaver dam removed at outlet.

Table 1.--Surface-water stage, discharge, and quality--Continued

C-2. WOODS LAKE NEAR BIG MOOSE, NY 04256484--Continued

WATER STAGE (FEET ABOVE DATUM), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC
1	0.63	0.67	0.57
2	.62	.64	.58
3	.64	.62	.58
4	.64	.60	.59
5	.64	.59	.58
6	.68	.63	.57
7	.80	.67	.56
8	.96	.64	.57
9	.91	.63	.58
10	.83	.60	.57
11	.76	.60	.56
12	.71	.58	.55
13	.67	.56	.54
14	.63	.55	.53
15	.62	.57	.53
16	.62	.58	.53
17	.61	.60	.50
18	.63	.60	.50
19	.71	.62	.51
20	.72	.66	.51
21	.71	.69	.51
22	.69	.69	.52
23	.69	.65	.55
24	.72	.62	.56
25	.69	.60	.55
26	.69	.58	.54
27	.98	.61	.54
28	1.25	.62	.55
29	1.05	.61	.55
30	.84	.59	.54
31	.73	---	.53
MEAN	.74	.62	.55
MAX	1.25	.69	.59
MIN	.61	.55	.50

Table 1.--Surface-water stage, discharge, and quality--Continued

C-3. WOODS LAKE OUTLET NEAR BIG MOOSE, NY 04256485

LOCATION.--Lat 43°51'57", long 74°57'20", Herkimer County, Hydrologic Unit 04150101, on right bank 45 ft (14 m) downstream from dam on Woods Lake, and 3.6 mi (5.8 km) northwest of Big Moose.

DRAINAGE AREA.--0.80 mi (2.07 km).

PERIOD OF RECORD.--Water discharge from October 1977 through December 1981, water-quality data from November 1977 through May 1979.

GAGE.--A digital recorder and a graphic water-stage recorder both driven by a servo-manometer gas-purge system. Outside reference a vertical, enameled staff gage (base gage) attached to a tree in the pool above the control. Altitude of gage 1,980 ft (604 m); determined from a topographic map.

CONTROL.--A concrete V-notch weir (broad crest), approximately 10 ft (3 m) downstream from staff gage.

DISCHARGE MEASUREMENTS.--At and above foot bridge, 25 ft from control. Adversely affected at this station during low flow because exposure of cups on the measuring device in the shallow water results in erroneous velocities and during high flow because surging of water in the measuring section inhibits accurate determination of depth. In winter, fair to poor. During rest of year fair to good except poor at discharges less than 10 ft /s.

EXTREMES.--Maximum discharge, 69 ft /s (1.95 m /s) October 30, 1978, water stage, 2.18 ft (0.664 m); minimum discharge <0.01 ft /s (<0.001 m /s) many days during period of record. Minimum recorded water stage, 0.95 ft (0.290 m) June 25, 1979.

ACCURACY.--During winter when discharges were less than 0.10 ft /s (0.003 m /s) and water-stage records were missing, records poor. During remainder of time, records fair.

REMARKS.--At high water stage, discharge estimated from stage-discharge relationship is sensitive to small changes in stage; for example, a 0.01-ft increase in stage at 10 ft /s produces a 6-percent increase in discharge.

Table 1.--Surface-water stage, discharge, and quality--Continued

C-3. WOODS LAKE OUTLET NEAR BIG MOOSE, NY 04256485--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	n5.4	0.95	3.3	1.2	1.5	0.55	3.9	5.5	0.46	0.43	0.02	0.02
2	n7.2	.88	6.9	1.2	1.3	.52	7.3	3.8	.55	.31	.02	.02
3	n5.6	.88	4.8	1.2	1.1	.52	3.9	2.4	.75	.19	.02	.02
4	n4.3	1.1	3.1	1.1	1.1	.52	2.5	2.1	.70	.14	.02	.02
5	3.1	2.1	2.6	1.1	1.0	.55	6.1	1.8	.88	.09	.01	.01
6	2.6	2.4	2.9	1.0	1.0	.55	5.1	1.8	.88	.07	.02	.02
7	2.2	2.4	2.2	1.0	1.1	.52	3.9	2.0	.75	.06	.01	.02
8	2.0	2.2	1.8	.95	1.2	.52	3.5	2.0	1.4	.06	.01	.02
9	2.9	2.1	2.0	11	1.0	.52	2.4	3.5	1.3	.08	.01	.02
10	5.8	2.1	1.7	9.2	.96	.49	2.0	5.1	.81	.06	.02	.02
11	4.6	4.0	1.5	4.6	.89	.49	3.3	8.1	.70	.05	.02	.43
12	3.3	3.6	1.3	3.1	.82	.49	11	11	.52	.04	.02	3.6
13	2.8	2.6	1.2	2.2	.82	.49	9.6	6.5	.70	.04	.02	3.3
14	2.2	2.0	2.6	1.8	.82	.62	9.6	2.5	.75	.04	.02	1.8
15	1.8	3.0	8.7	1.7	.66	1.1	4.8	1.7	.62	.03	.01	1.8
16	1.8	3.6	5.5	1.5	.62	1.3	3.1	1.4	.43	.03	.02	1.6
17	2.4	3.1	3.6	1.4	.62	1.3	2.2	1.4	.46	.03	.06	.52
18	3.6	3.3	2.6	1.6	.58	1.2	2.2	.49	.66	.02	.02	.31
19	3.3	2.6	2.1	1.5	.58	1.1	3.9	.19	.88	.02	.02	.58
20	2.6	2.1	1.7	1.4	.55	1.0	6.1	.16	1.5	.02	.08	.49
21	2.1	1.8	1.8	1.7	.55	1.0	6.1	.89	1.5	.02	.03	.16
22	2.1	2.6	1.8	1.4	.55	2.0	3.9	1.6	2.2	.02	.02	.20
23	2.1	2.8	1.5	1.3	.55	2.6	3.7	1.2	1.8	.02	.02	.17
24	2.0	2.8	1.4	1.2	.55	2.2	4.8	.96	1.5	.02	.02	.15
25	1.8	2.8	1.6	1.1	.55	1.7	6.9	.95	1.2	.02	.04	.09
26	1.8	2.9	2.0	1.8	.55	1.8	7.7	.66	.81	.01	.02	.05
27	1.8	2.6	1.8	3.1	.55	4.5	7.7	.58	.70	.02	.02	.04
28	1.6	2.2	1.6	2.9	.55	6.5	7.7	.49	.66	.02	.02	.05
29	1.5	2.0	1.4	2.1	---	4.2	6.9	.49	.95	.03	.03	.05
30	1.3	1.7	1.3	1.8	---	2.5	4.6	.66	.62	.09	.03	.04
31	1.2	---	1.3	1.7	---	1.8	---	.55	---	.04	.02	---
TOTAL	88.8	71.21	79.6	69.85	22.62	45.15	156.4	72.47	27.64	2.12	.72	15.62
MEAN	2.86	2.37	2.57	2.25	.81	1.46	5.21	2.34	.92	.068	.023	.52
MAX	7.2	4.0	8.7	11	1.5	6.5	11	11	2.2	.43	.08	3.6
MIN	1.2	.88	1.2	.95	.55	.49	2.0	.16	.43	.01	.01	.01
CFSM	3.58	2.96	3.21	2.81	1.01	1.83	6.51	2.93	1.15	.09	.03	.65
IN.	4.12	3.31	3.70	3.24	1.05	2.10	7.26	3.37	1.28	.10	.03	.73

WTR YR 1978 TOTAL 652.20 MEAN 1.79 MAX 11 MIN .01 CFSM 2.24 IN 30.29

n No water-stage record.

Table 1.--Surface-water stage, discharge, and quality--Continued

C-3. WOODS LAKE OUTLET NEAR BIG MOOSE, NY 04256485--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.06	4.8	0.70	2.7	1.0	0.70	4.6	2.9	2.4	0.01	0.06	1.3
2	.07	3.1	.70	7.3	.95	.75	4.6	2.2	1.6	.02	.52	.49
3	.05	2.9	.75	8.2	.88	.70	9.2	2.0	1.1	.10	1.2	1.1
4	.05	.81	1.1	5.1	.81	.70	6.5	2.9	.81	.04	.75	2.4
5	.04	.49	1.5	3.3	1.2	4.3	4.8	2.7	.70	.05	.29	2.4
6	.20	.23	1.4	2.4	1.0	13	3.8	2.2	.66	.04	.17	7.3
7	.22	.27	1.2	2.0	.88	11	3.8	2.0	.38	.03	.14	11
8	.27	.40	2.0	1.8	b.72	5.8	2.7	1.6	.22	.02	.29	5.8
9	.25	.20	4.6	1.5	b.60	3.6	2.2	1.5	.31	.01	.23	3.6
10	.22	.13	3.6	1.3	b.54	2.7	2.1	1.4	.27	.01	.40	2.4
11	.20	.08	2.4	1.0	b.50	2.2	1.7	1.2	.20	nd.01	.40	1.6
12	.17	.06	2.0	.88	b.47	2.0	1.5	1.2	.25	nd.01	.27	.81
13	.25	.04	1.7	1.3	b.45	1.7	1.6	1.6	.33	nd.01	.27	.52
14	2.7	.08	2.1	2.6	b.43	3.1	3.3	1.7	.27	nd.01	.23	1.6
15	4.8	.09	1.7	2.7	b.43	4.3	4.8	1.4	.17	nd.01	.16	4.8
16	nd3.4	.05	1.4	2.2	b.44	3.3	4.3	1.3	.14	nd.01	.31	4.0
17	nd2.0	.07	1.7	nd2.0	b.44	2.6	4.3	1.1	.12	nd.01	.17	2.6
18	nd1.2	.55	1.7	nd1.8	b.44	2.0	4.6	.88	.19	nd.01	.23	2.7
19	.89	.46	1.3	1.4	b.44	1.7	4.6	.70	.15	nd.01	.22	3.3
20	.60	.33	1.1	1.2	b.45	1.5	4.3	.62	.07	nd.01	.27	2.4
21	.46	.75	1.5	1.8	b.47	1.8	4.8	.62	.04	nd.01	.27	1.7
22	.62	1.0	1.4	2.4	b.62	2.9	5.8	.75	.02	nd.01	.16	1.6
23	.46	.58	1.3	2.1	b.66	3.8	6.5	.55	.02	nd.01	.17	1.2
24	.31	1.3	1.0	1.7	b.88	3.6	6.9	.62	.02	nd.01	.20	.88
25	.38	1.2	1.8	2.0	.75	4.0	6.5	.95	.01	nd.01	.58	.52
26	.81	.95	1.8	1.7	1.2	4.8	5.8	1.4	.01	nd.02	.33	.46
27	3.6	.88	1.5	1.5	1.0	5.1	7.3	1.8	.02	nd.07	1.7	.52
28	3.1	.95	1.2	1.4	.88	3.6	11	2.0	.01	nd.05	3.1	.25
29	2.0	.95	.95	1.3	---	3.1	6.5	1.7	.01	nd.05	2.0	.31
30	5.5	.88	.88	1.1	---	3.6	4.0	2.1	.01	nd.04	3.1	.27
31	10	---	.81	1.0	---	4.8	---	2.9	---	.04	2.9	---
TOTAL	44.88	24.58	48.79	70.68	19.53	108.75	144.4	48.49	10.51	.75	21.09	69.83
MEAN	1.45	.82	1.57	2.28	.70	3.51	4.81	1.56	.35	.024	.68	2.33
MAX	10	4.8	4.6	8.2	1.2	13	11	2.9	2.4	.10	3.1	11
MIN	.04	.04	.70	.88	.43	.70	1.5	.55	.01	.01	.06	.25
CFSM	1.81	1.03	1.96	2.85	.88	4.39	6.01	1.95	.44	.03	.85	2.91
IN.	2.08	1.14	2.27	3.28	.91	5.05	6.71	2.25	.49	.03	.98	3.24

CAL YR 1978 TOTAL 530.84 MEAN 1.45 MAX 11 MIN .01 CFSM 1.81 IN 24.65
WTR YR 1979 TOTAL 612.28 MEAN 1.68 MAX 13 MIN .01 CFSM 2.10 IN 28.44

nd No or doubtful water-stage record.
b Stage-discharge relationship affected by ice.

Table 1.--Surface-water stage, discharge, and quality--Continued

C-3. WOODS LAKE OUTLET NEAR BIG MOOSE, NY 04256485--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.16	1.3	2.9	1.1	0.38	0.24	4.6	1.1	1.0	0.27	1.0	0.20
2	.17	n1.5	2.2	1.0	.35	.24	4.3	.95	1.5	.23	1.1	.40
3	.25	n2.8	1.8	.88	.33	.23	3.8	.88	2.1	.15	.88	1.0
4	.33	n3.3	1.6	.75	.31	.22	4.6	.70	3.6	.12	.70	.58
5	.46	n2.8	1.5	.62	.27	.29	6.5	.58	2.6	.09	.58	.46
6	2.1	n2.3	1.3	.52	.27	.43	4.3	.75	1.6	.08	1.2	.27
7	2.4	n1.9	1.4	.52	.25	.46	3.6	.75	1.6	.03	1.3	.15
8	2.4	n1.8	1.7	.70	.23	.62	4.3	.66	1.7	.04	.75	.07
9	2.2	n1.7	1.6	.75	.23	.70	9.2	.62	2.7	.16	.43	.04
10	2.4	n2.5	1.6	.70	.23	.58	14	.62	2.4	.09	.19	.12
11	2.4	n4.7	1.3	.88	.22	.62	9.2	.52	1.7	.10	.08	.06
12	2.1	n3.5	2.1	4.0	.25	.49	5.8	.52	1.2	.12	.27	.04
13	2.2	n2.8	3.8	3.8	.25	.49	7.7	.58	.81	.05	.46	.04
14	2.2	n2.2	3.6	2.7	.31	1.2	5.5	.70	.55	.02	.35	.23
15	2.1	n1.8	2.4	2.7	.28	1.3	7.7	.58	.52	.02	.66	.33
16	2.7	n1.6	1.8	2.1	.27	.81	6.5	.62	.58	.49	.52	.25
17	2.9	n1.4	1.6	1.5	.27	.75	3.8	.49	.33	.31	.33	.23
18	2.7	n1.3	1.5	1.1	.26	2.7	2.2	.58	.22	.31	.20	.46
19	2.2	n1.2	1.2	1.0	.26	2.7	1.7	1.4	.20	.22	.20	.33
20	2.1	1.1	.95	1.0	.27	2.0	1.5	1.4	.40	.19	.12	.31
21	2.1	1.1	.88	.88	.25	2.6	1.3	1.1	.55	1.0	.09	.29
22	1.7	1.3	.70	.81	.29	6.9	1.0	.81	.46	2.7	.06	.40
23	1.6	1.8	.70	b.78	.38	5.8	.81	.75	.40	4.3	.06	1.8
24	2.1	2.1	.88	b.72	.35	4.0	.70	.66	.33	3.1	.04	2.7
25	2.1	2.6	2.9	b.68	.31	4.0	.88	.58	.27	2.0	.03	1.4
26	1.7	5.5	4.8	.62	.29	3.3	1.0	.35	.38	1.3	.03	1.1
27	1.5	9.7	4.0	.58	.27	2.6	1.0	.25	.52	1.6	.03	2.0
28	1.2	5.8	2.9	b.52	.26	2.1	1.0	.17	.29	1.2	.02	1.7
29	1.2	4.0	2.1	b.49	.25	3.6	1.2	n.09	.20	1.3	.02	1.2
30	1.2	3.8	1.6	b.46	---	4.8	1.2	n.28	.20	1.6	.09	.95
31	1.1	---	1.4	b.42	---	5.5	---	n.64	---	1.2	.29	---
TOTAL	53.97	81.2	60.71	35.28	8.14	62.27	120.89	20.68	30.91	24.39	12.08	19.11
MEAN	1.74	2.71	1.96	1.14	.28	2.01	4.03	.67	1.03	.79	.39	.64
MAX	2.9	9.7	4.8	4.0	.38	6.9	14	1.4	3.6	4.3	1.3	2.7
MIN	.16	1.1	.70	.42	.22	.22	.70	.09	.20	.02	.02	.04
CFSM	2.18	3.39	2.45	1.43	.35	2.51	5.04	.84	1.29	.99	.49	.80
IN.	2.51	3.77	2.82	1.64	.38	2.89	5.61	.96	1.44	1.13	.56	.89

CAL YR 1979 TOTAL 689.91 MEAN 1.89 MAX 13 MIN .01 CFSM 2.36 IN 32.04
WTR YR 1980 TOTAL 529.63 MEAN 1.45 MAX 14 MIN .02 CFSM 1.81 IN 24.60

n No water-stage record.
b Stage-discharge relationship affected by ice.

Table 1.--Surface-water stage, discharge, and quality--Continued

C-3. WOODS LAKE OUTLET NEAR BIG MOOSE, NY 04256485--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.75	1.8	n1.9	0.52	0.39	2.9	14	1.8	0.05	8.7	2.2	1.0
2	.29	1.7	n1.5	.66	2.5	2.6	13	1.4	.03	3.6	1.7	.08
3	.23	n1.4	n7.2	n.62	2.8	2.2	7.7	1.1	.55	1.1	1.4	.08
4	.22	n1.9	n5.9	n.54	2.2	1.7	5.1	.95	.75	.52	1.3	.05
5	.16	n6.8	3.3	n.52	1.6	1.5	4.0	.75	.31	.38	1.1	.04
6	.09	n5.6	2.1	n.54	1.3	1.3	2.9	.75	.13	.43	1.1	.04
7	.95	n5.1	1.6	.66	1.1	1.3	2.1	.62	.09	1.2	.88	.04
8	1.2	n13	2.1	.52	1.0	1.3	1.7	.49	.04	1.2	.81	.07
9	.66	n9.2	6.2	.43	1.2	1.3	1.7	.40	.13	.95	2.0	.19
10	.38	n7.5	4.8	.40	.95	1.2	2.0	.33	.16	1.5	3.8	.33
11	.40	n5.6	3.3	.33	2.0	1.1	2.1	.55	.12	.40	5.1	2.0
12	.81	n3.6	2.4	.29	5.5	1.1	2.7	1.0	.03	.15	8.7	2.1
13	1.1	n2.2	2.1	.27	4.8	1.1	2.0	1.0	.03	.07	6.5	3.8
14	.88	n2.1	1.7	.25	2.9	1.0	1.7	.88	.02	.08	4.0	3.8
15	.66	n1.8	1.6	.25	2.0	.95	1.6	.88	.10	.31	3.1	2.4
16	.49	n1.3	1.3	.27	1.7	1.0	1.2	1.7	.09	.38	6.1	1.5
17	.66	n1.0	1.1	.31	1.5	1.0	1.3	2.1	.70	.08	5.5	1.0
18	1.6	n1.2	1.0	.33	1.8	1.0	4.0	1.5	1.5	.09	3.6	1.0
19	1.5	n.89	1.1	.35	3.6	.95	4.8	.95	1.8	.03	2.7	.49
20	1.1	n.77	.88	.31	13	.88	3.1	1.0	1.5	.06	2.0	.40
21	1.2	n.71	.81	.29	20	.81	2.0	.95	1.1	2.2	1.6	.25
22	1.8	n.65	.75	.31	19	.75	1.6	.58	.88	4.3	1.3	1.6
23	1.7	n.58	.70	.43	17	.66	1.4	.35	2.1	3.3	1.3	3.8
24	1.4	n.89	.70	.40	18	.62	1.7	.19	2.2	1.8	1.3	9.2
25	2.0	n2.2	.66	.33	13	.66	2.0	.13	1.8	1.5	1.3	6.9
26	9.2	n2.2	.62	.31	7.3	.70	2.0	.14	1.6	1.4	1.3	4.0
27	9.2	n2.0	.58	.38	4.8	.88	1.7	.08	1.7	1.2	1.3	2.7
28	6.1	n2.1	.55	.40	3.3	1.0	1.4	.09	1.0	1.3	1.3	2.9
29	3.8	n2.1	.58	.40	---	1.7	1.7	.07	.52	3.3	1.2	2.2
30	2.7	n2.0	.66	.38	---	8.2	2.0	.05	5.1	4.0	1.2	1.7
31	2.0	---	.58	.31	---	16	---	.06	---	2.9	1.2	---
TOTAL	55.23	89.89	60.27	12.31	156.24	59.36	96.2	22.84	26.13	48.43	77.89	55.66
MEAN	1.78	3.00	1.94	.40	5.58	1.91	3.21	.74	.87	1.56	2.51	1.86
MAX	9.2	13	7.2	.66	20	16	14	2.1	5.1	8.7	8.7	9.2
MIN	.09	.58	.55	.25	.39	.62	1.2	.05	.02	.03	.81	.04
CFSM	2.23	3.75	2.43	.50	6.98	2.39	4.01	.93	1.09	1.95	3.14	2.33
IN.	2.56	4.17	2.80	.57	7.26	2.76	4.47	1.06	1.21	2.25	3.62	2.58

CAL YR 1980 TOTAL 539.14 MEAN 1.47 MAX 14 MIN .02 CFSM 1.84 IN 25.04
WTR YR 1981 TOTAL 760.45 MEAN 2.08 MAX 20 MIN .02 CFSM 2.60 IN 35.32

n No water-stage record.

Table 1.--Surface-water stage, discharge, and quality--Continued

C-3. WOODS LAKE OUTLET NEAR BIG MOOSE, NY 04256485--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC
1	1.4	2.4	n1.3
2	1.3	1.8	n1.2
3	1.3	1.5	n1.2
4	1.5	1.1	1.3
5	1.5	.95	1.3
6	1.6	1.2	1.2
7	3.3	2.0	1.1
8	7.3	1.8	1.1
9	6.9	1.6	1.1
10	4.3	1.3	1.1
11	2.7	1.2	1.1
12	2.6	1.1	1.0
13	2.1	.95	.88
14	1.6	.95	.81
15	1.3	.88	.75
16	1.2	.88	.75
17	1.1	.88	.62
18	1.2	.95	.62
19	2.4	1.2	.62
20	2.7	1.7	.62
21	2.2	2.4	.52
22	2.1	2.6	.49
23	2.4	2.1	.66
24	3.1	1.7	.70
25	2.4	1.4	.70
26	2.2	1.2	.70
27	12	1.2	.70
28	19	1.5	.70
29	13	1.4	.70
30	6.5	1.4	.70
31	3.3	---	.70
TOTAL	117.5	43.24	26.94
MEAN	3.79	1.44	.87
MAX	19	2.6	1.3
MIN	1.1	.88	.49
CFSM	4.74	1.80	1.09
IN.	5.46	2.01	1.25

CAL YR 1981 TOTAL 742.74 MEAN 2.03 MAX 20 MIN .02 CFSM 2.54 IN 34.49

n No water-stage record.

Table 1.--Surface-water stage, discharge, and quality--Continued

C-3. WOODS LAKE OUTLET NEAR BIG MOOSE, NY 04256485--Continued

WATER QUALITY

Date	Time	Streamflow, instantaneous (ft /s)	Specific conductance (mhos/cm at 25° C)	pH (field)	Temperature (° C)	Solids, residue at 105° C, suspended (mg/L)	Solids, volatile, suspended (mg/L)	Iron, total recoverable (g/L as Fe)	Lead, total recoverable (g/L as Pb)	Manganese, total recoverable (g/L as Mn)	Zinc, total recoverable (g/L as Zn)
NOV , 1977											
02...	1445	2.4	28	3.9	9.0	--	--	70	2	60	30
DEC											
01...	1330	2.8	30	3.6	2.0	5	--	80	5	60	30
FEB , 1978											
15...	1100	.69	31	4.2	.5	0	--	90	ND	60	20
MAR											
08...	1500	.46	33	4.2	1.0	--	--	130	35	60	30
23...	1700	3.0	29	4.5	.5	--	--	90	2	60	20
APR											
12...	1400	11	38	4.6	1.0	--	--	110	5	60	20
13...	1420	8.7	37	4.5	1.0	--	--	90	8	50	20
14...	1100	11	--	--	--	--	--	560	--	60	60
15...	0700	5.2	--	--	--	--	--	220	3	70	40
18...	1500	2.1	--	--	--	--	--	180	2	60	40
19...	1100	3.8	--	--	--	--	--	180	6	60	30
20...	0700	5.8	--	--	--	--	--	130	7	60	30
21...	0300	6.5	--	--	--	--	--	350	9	60	40
21...	2300	5.2	--	--	--	--	--	290	3	80	110
22...	1900	3.8	--	--	--	--	--	360	12	60	50
23...	1500	3.8	--	--	--	--	--	190	3	70	30
24...	1100	4.6	--	--	--	--	--	170	7	60	30
MAY											
01...	1745	6.9	32	4.6	3.0	--	--	110	2	50	20
12...	1430	11.7	23	4.1	--	--	--	290	3	60	30
24...	0845	.88	24	4.9	15.0	--	--	140	4	70	20
JUN											
21...	2130	2.1	--	--	--	--	--	--	71	150	90
21...	2330	2.4	--	--	--	--	--	770	48	50	30
22...	1130	2.4	--	--	--	--	--	1500	63	60	30
28...	1030	.73	31	5.0	21.0	--	--	60	9	60	20
30...	1115	.73	23	5.1	21.0	--	--	70	9	60	<20
AUG											
17...	1000	.06	20	4.8	--	0	0	270	16	50	20
29...	0930	.03	19	5.0	19.0	4	2	260	69	50	60
SEP											
11...	1830	.31	35	4.4	--	0	0	1500	22	80	110
11...	1945	.70	36	4.3	--	0	0	1400	8	60	70
12...	0300	2.6	49	4.1	--	0	0	540	9	60	70
13...	0300	3.8	54	4.0	--	0	0	150	15	50	110
13...	0930	2.9	21	4.8	14.5	0	0	80	7	70	20
13...	1100	2.8	96	3.7	--	0	0	150	34	40	90
14...	1100	1.1	60	4.0	--	0	0	220	9	50	80
15...	1900	1.7	39	4.1	--	0	0	220	5	60	60
19...	1200	.33	23	4.4	--	0	0	70	3	50	30
OCT											
19...	1145	.88	21	4.6	8.0	--	--	50	2	80	20

Table 1.--Surface-water stage, discharge, and quality--Continued

C-3. WOODS LAKE OUTLET NEAR BIG MOOSE, NY 04256485--Continued

WATER QUALITY

Date	Time	Streamflow, instantaneous (ft /s)	Specific conductance (mhos/cm at 25° C)	pH (field)	Temperature (° C)	Solids, residue at 105° C, suspended (mg/L)	Solids, volatile, suspended (mg/L)	Iron, total recoverable (g/L as Fe)	Lead, total recoverable (g/L as Pb)	Manganese, total recoverable (g/L as Mn)	Zinc, total recoverable (g/L as Zn)
NOV,1978											
03...	0900	3.1	21	4.5	6.0	--	--	60	ND	60	40
07...	1200	.22	23	5.1	--	--	--	60	4	70	20
12...	1145	.06	23	5.1	--	--	--	200	5	80	20
19...	1300	.49	24	5.2	--	--	--	40	5	70	20
27...	1300	.75	25	5.0	--	--	--	20	6	50	20
DEC											
11...	1300	2.4	25	4.6	--	--	--	60	4	60	30
JAN , 1979											
07...	1300	1.8	30	4.4	--	--	--	490	5	70	20
18...	1300	1.8	--	--	--	--	--	80	3	60	30
30...	1100	1.1	27	4.5	.0	--	--	110	ND	60	30
FEB											
14...	1400	.47	26	4.5	.0	--	--	180	ND	40	<20
MAR											
01...	1335	.70	25	4.8	--	9	0	100	<2	70	30
06...	0830	13	26	4.7	--	6	0	100	2	70	20
07...	1100	13	29	4.6	--	7	0	50	2	70	30
08...	1510	7.3	33	4.5	--	0	0	100	3	80	70
09...	0500	4.0	--	--	--	--	--	220	13	70	90
11...	0500	2.2	--	--	--	--	--	230	10	70	40
17...	1015	2.6	--	--	--	0	0	70	3	80	30
22...	1100	2.8	34	4.4	--	--	--	80	3	60	40
28...	1350	3.8	35	4.3	--	--	--	100	3	50	50
31...	1530	4.8	34	4.4	--	--	--	190	ND	90	30
APR											
05...	1200	4.6	33	4.4	--	--	--	70	2	70	50
14...	1415	3.8	34	4.4	--	4	3	100	5	60	50
23...	1415	6.2	26	4.6	--	2	2	140	5	50	50
MAY											
02...	0900	2.3	27	4.6	--	2	0	140	11	70	60
10...	1300	1.5	25	4.7	--	0	0	150	3	70	40
24...	0930	.38	27	4.6	--	3	1	100	5	60	40
30...	1105	1.8	28	4.3	--	7	0	110	3	50	40

ND No determination.

TABLE 2

GROUND-WATER LEVELS AND WATER QUALITY

A. Panther Lake basin:

	Well	Page		Well	Page
1.	PG10. . .	59	9.	PG65. . .	79
2.	PG11. . .	62	10.	PG67. . .	81
3.	PG12. . .	66	11.	PG68. . .	83
4.	PG13. . .	67	12.	PG70. . .	85
5.	PG14. . .	69	13.	PG71. . .	90
6.	PG40. . .	72	14.	PG80. . .	92
7.	PG50. . .	74	15.	PG90. . .	93
8.	PG60. . .	76	16.	PG91. . .	94

B. Sagamore Lake basin:

1.	SG20. . .	96	4.	SG40. . .	103
2.	SG21. . .	99	5.	SG50. . .	106
3.	SG31. . .	100	6.	SG51. . .	109

C. Woods Lake basin:

1.	WG10. . .	112	5.	WG75. . .	123
2.	WG30. . .	117	6.	WG80. . .	125
3.	WG50. . .	120	7.	WG90. . .	126
4.	WG70. . .	121			

Table 2.--Ground-water level and quality

A-1. 434140074551001 - Panther Lake - Well PG10

WATER LEVELS

LOCATION.--Lat 43°41'40", long 74°55'10", Herkimer County, Hydrologic Unit 04150101, 30 ft (9 m) east from south end of Panther Lake and about 3.5 mi (5.6 km) southeast of Old Forge. (See fig. 2.)
Owner: Adirondack League Club.

AQUIFER.--Water table in outwash sand of late Wisconsinan age.

GAGE.--Battery-driven graphic recorder attached to a small-diameter-float mechanism.

WELL CHARACTERISTICS.--Hand-augered observation well, diameter 1.25 in. (3.17 cm), depth 8.0 ft (2.44 m), galvanized-steel casing to 6.6 ft (2.01 m), top of steel screen at 6.6 ft (2.01 m), bentonite seal in annulus from 0.3 to 0.5 ft (0.09 to 0.15 m), backfilled with original materials.

DATUM.--Elevation of land-surface datum 6.05 ft (1.84 m) above 0.00-ft mark of lake staff gage; approximate altitude 1,832 ft (558 m). Measuring point: chisel mark at junction of shelter table and well head, 4.17 ft (1.27 m) above land surface.

PERIOD OF RECORD.--October 10, 1979, to December 31, 1981.

EXTREMES.--Highest water level 2.43 ft (0.69 m) below land-surface datum, February 24, 1981; lowest, 4.09 ft (1.25 m) below land-surface datum, September 30, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL, IN FEET), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
READING AT 1200 HRS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	3.66	3.66	---
2	---	---	---	---	---	---	---	---	---	3.68	3.67	---
3	---	---	---	---	---	---	---	---	---	3.69	3.67	---
4	---	---	---	---	---	---	---	3.50	---	3.70	3.68	---
5	---	---	---	---	---	---	---	---	---	3.70	3.69	---
6	---	---	---	---	---	---	---	3.59	---	3.70	3.69	---
7	---	---	3.50	---	---	---	---	3.60	---	3.71	3.70	---
8	---	---	---	3.68	---	---	---	3.60	---	3.71	3.70	---
9	---	---	---	---	---	---	---	3.61	---	3.71	3.71	---
10	3.54	---	---	---	---	---	2.45	3.62	3.13	3.72	3.71	---
11	---	---	---	---	---	---	---	3.63	3.22	3.72	3.72	---
12	---	---	---	---	---	4.05	---	3.64	---	3.72	3.72	4.08
13	---	---	---	---	3.91	---	---	3.64	---	3.72	3.95	---
14	---	---	---	---	---	---	---	3.64	---	3.72	3.72	---
15	---	---	---	---	---	---	---	3.65	---	3.75	---	---
16	---	---	---	---	---	---	---	3.65	---	3.77	---	---
17	---	---	---	---	---	---	---	3.66	---	3.78	---	---
18	---	---	---	---	---	---	---	3.66	---	3.79	---	3.94
19	---	---	---	---	---	---	---	3.66	---	3.79	---	---
20	---	---	---	---	---	---	---	3.66	---	3.79	---	---
21	---	---	---	3.62	---	---	---	3.66	---	3.71	---	---
22	---	---	---	---	---	---	---	3.67	---	3.39	---	---
23	---	---	---	---	---	---	---	3.68	---	3.37	---	---
24	---	---	---	---	---	---	3.49	3.74	---	3.43	---	---
25	---	---	---	---	---	3.57	---	3.74	3.48	3.51	4.08	---
26	---	---	---	---	---	---	---	3.74	3.52	3.54	---	---
27	---	---	---	---	---	---	---	3.77	3.56	3.57	---	---
28	---	---	---	---	4.04	---	---	3.80	3.59	3.61	---	---
29	---	---	---	---	---	---	---	---	3.62	3.63	---	---
30	---	---	---	---	---	---	---	---	3.66	3.65	---	4.09
31	---	---	---	---	---	---	---	---	---	3.65	---	---
MEAN	---	---	---	---	---	---	---	---	---	3.66	---	---
LOWEST	---	---	---	---	---	---	---	---	---	3.79	---	---
HIGHEST	---	---	---	---	---	---	---	---	---	3.37	---	---

Table 2.--Ground-water level and quality--Continued

A-1. 434140074551001 - Panther Lake - Well PG10--Continued

DEPTH BELOW LAND SURFACE (WATER LEVEL, IN FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 READING AT 1200 HRS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	3.53	3.52	3.52	3.72	2.90	2.89	3.63	---	3.78	3.86	3.86
2	---	3.53	3.55	3.52	3.56	3.00	2.77	3.63	3.70	3.89	3.85	3.86
3	---	3.54	3.58	3.53	3.48	3.10	3.16	3.63	3.67	3.89	3.88	3.82
4	---	3.55	3.57	3.54	3.41	3.19	3.19	3.64	3.67	3.89	3.89	3.75
5	---	3.55	3.57	3.69	3.49	3.65	3.20	3.64	3.67	3.90	3.89	3.73
6	---	3.55	3.57	3.74	3.50	---	3.24	3.64	3.68	3.92	3.90	3.74
7	---	3.56	3.57	3.71	3.52	---	3.31	3.64	3.68	3.93	3.87	3.76
8	---	3.39	3.57	3.71	3.53	---	3.36	3.65	3.70	3.95	3.86	3.78
9	---	3.35	3.53	3.71	3.55	---	3.38	3.65	3.72	3.96	3.86	3.66
10	---	3.35	3.50	3.71	3.57	---	3.39	3.66	3.72	3.97	3.86	---
11	---	3.36	3.50	3.72	3.51	---	3.39	3.66	3.72	3.99	3.86	---
12	---	3.40	3.50	3.72	3.21	---	3.33	3.66	3.73	4.00	3.62	---
13	---	3.42	3.50	3.73	3.23	---	3.34	3.65	3.73	4.01	3.57	---
14	---	3.45	3.51	3.73	3.36	---	3.34	3.65	3.73	4.04	3.80	3.66
15	---	3.47	3.51	3.73	3.42	---	3.34	3.67	3.74	4.04	3.84	3.67
16	---	3.49	3.51	3.73	3.46	---	3.34	3.66	3.75	4.05	3.82	3.68
17	---	3.50	3.51	3.73	3.49	3.65	3.34	3.65	3.74	4.06	3.82	3.68
18	---	3.50	3.51	3.73	3.50	3.65	3.14	3.66	3.75	4.05	3.81	3.66
19	---	3.50	3.51	3.73	3.48	3.65	3.15	3.66	3.75	4.07	3.81	3.61
20	---	3.50	3.52	3.72	3.18	3.65	3.28	3.67	3.75	4.08	3.81	3.62
21	---	3.50	3.52	3.73	2.87	3.65	3.28	3.67	3.75	4.03	3.85	3.64
22	---	3.50	3.53	3.73	2.81	3.64	3.33	3.68	3.75	3.97	3.85	3.63
23	---	3.50	3.52	3.72	2.66	3.64	3.34	3.68	3.76	3.95	3.85	3.38
24	---	3.50	3.52	3.72	2.43	3.64	3.34	3.69	3.76	3.94	3.85	3.05
25	3.22	3.50	3.53	3.73	2.49	3.64	3.33	3.69	3.76	3.95	3.85	3.06
26	3.88	3.50	3.53	3.72	2.60	3.65	3.34	3.69	3.75	3.95	3.85	3.17
27	3.30	3.50	3.53	3.72	2.70	3.65	3.34	3.69	3.76	3.94	3.85	3.23
28	3.44	3.50	3.54	3.71	2.80	3.65	3.34	3.70	3.77	3.93	3.84	3.27
29	3.48	3.50	3.52	3.71	---	3.65	3.80	3.70	3.77	3.87	3.85	3.29
30	3.50	3.50	3.52	3.71	---	3.65	3.64	---	3.78	3.86	3.86	3.34
31	3.53	---	3.52	3.72	---	3.01	---	---	---	2.85	3.86	---
MEAN	---	3.48	3.53	3.70	3.23	---	3.30	---	---	3.93	3.83	---
LOWEST	---	3.56	3.58	3.74	3.72	---	3.80	---	---	4.08	3.90	---
HIGHEST	---	3.35	3.50	3.52	2.43	---	2.77	---	---	2.85	3.57	---

Table 2.--Ground-water level and quality--Continued

A-1. 434140074551001 - Panther Lake - Well PG10--Continued

DEPTH BELOW LAND SURFACE (WATER LEVEL, IN FEET), WATER YEAR OCTOBER 1981 TO DECEMBER 1981 READING AT 1200 HRS

DAY	OCT	NOV	DEC
1	3.36	2.86	3.58
2	3.42	2.94	3.58
3	3.43	2.95	3.61
4	3.45	2.99	3.63
5	3.47	3.04	3.64
6	3.49	3.12	---
7	3.33	3.21	---
8	3.30	3.29	---
9	3.31	3.35	---
10	3.35	3.38	---
11	3.39	3.41	---
12	3.43	3.44	---
13	3.46	3.48	---
14	3.49	3.49	---
15	3.52	3.50	---
16	3.55	3.52	---
17	3.58	3.53	---
18	3.59	3.54	---
19	3.60	3.55	---
20	3.59	3.54	---
21	3.58	3.50	---
22	3.58	3.48	---
23	3.59	3.48	---
24	3.58	3.49	---
25	3.57	3.52	---
26	3.57	3.53	---
27	3.44	3.54	3.74
28	2.60	3.55	3.74
29	2.59	3.56	3.74
30	2.67	3.57	3.75
31	2.77	---	3.75
MEAN	3.38	3.38	---
LOWEST	3.60	3.57	---
HIGHEST	2.59	2.86	---

Table 2.--Ground-water level and quality--Continued

A-2. 434140074551002 - Panther Lake - Well PG11

WATER LEVELS

LOCATION.--Lat 43°41'40", long 74°55'10", Herkimer County, Hydrologic Unit 04150101, 62 ft (19 m) east from southeast end of Panther Lake and about 3.5 mi (5.6 km) southeast of Old Forge.
Owner: Adirondack League Club.

AQUIFER.--Water table in outwash sand of Wisconsinan age.

WELL CHARACTERISTICS.--Hand-augered observation well, diameter 1.25 in. (3.17 cm), depth 5.9 ft (1.80 m), polyvinylchloride (PVC) casing to 4.3 ft (1.3 m), top of PVC screen 4.3 ft (1.3 m), bentonite seal in annulus from 0.6 to 1.7 ft (0.2 to 0.5 m), backfilled with original materials.

DATUM.--Elevation of land-surface datum 5.46 ft (1.66 m) above 0.00-ft mark of lake staff gage; approximate altitude, 1,831 ft (558 m). Measuring point: inner edge of well head, 3.30 ft (1.00 m) above land surface.

PERIOD OF RECORD.--October 2, 1979, to January 5, 1982.

EXTREMES.--Highest water level 1.73 ft (0.53 m) below land-surface datum, April 10, 1980; lowest, 3.77 ft (1.15 m) below land-surface datum, July 14, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
02OCT1979	3.70	30JUN1980	3.32	01APR1981	2.39
15NOV1979	3.30	01JUL1980	3.31	28APR1981	2.98
30NOV1979	2.88	15JUL1980	3.50	02JUN1981	3.32
12DEC1979	3.23	29JUL1980	3.33	01JUL1981	3.49
27DEC1979	3.21	30JUL1980	3.25	14JUL1981	3.77
08JAN1980	3.23	12AUG1980	3.46	17JUL1981	3.71
21JAN1980	3.16	13AUG1980	3.48	26JUL1981	3.66
13FEB1980	3.49	25AUG1980	3.68	27JUL1981	3.65
28FEB1980	3.62	12SEP1980	3.76	29JUL1981	3.54
12MAR1980	3.62	30SEP1980	3.76	06AUG1981	3.67
25MAR1980	3.04	28OCT1980	2.96	12AUG1981	3.13
10APR1980	1.73	02DEC1980	3.04	13AUG1981	3.19
24APR1980	3.00	06JAN1981	3.48	21AUG1981	3.32
04MAY1980	3.11	05FEB1981	3.21	27AUG1981	3.50
27MAY1980	3.51	21FEB1981	2.58	27OCT1981	2.26
28MAY1980	3.47	25FEB1981	2.14	03NOV1981	2.53
10JUN1980	2.76	04MAR1981	2.82	02DEC1981	3.10
11JUN1980	2.83	18MAR1981	3.19	05JAN1982	3.26

INTENSIVE SAMPLING, FALL 1981
WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

DATE	HOUR	WATER LEVEL	DATE	HOUR	WATER LEVEL	DATE	HOUR	WATER LEVEL
21SEP1981	19	3.26	25SEP1981	8	2.54	07OCT1981	22	2.93
22SEP1981	1	3.30	25SEP1981	18	2.69	08OCT1981	4	2.80
22SEP1981	7	3.23	26SEP1981	15	2.82	08OCT1981	10	2.72
22SEP1981	12	3.15	27SEP1981	14	2.52	08OCT1981	16	2.72
22SEP1981	18	2.99	28SEP1981	15	2.94	08OCT1981	22	2.67
23SEP1981	0	2.94	01OCT1981	0	3.08	09OCT1981	4	2.68
23SEP1981	6	2.92	01OCT1981	16	3.13	09OCT1981	10	2.69
23SEP1981	13	2.93	02OCT1981	5	3.13	09OCT1981	17	2.72
23SEP1981	19	2.87	06OCT1981	16	3.21	09OCT1981	21	2.75
24SEP1981	0	2.60	06OCT1981	23	3.18	10OCT1981	10	2.77
24SEP1981	7	2.47	07OCT1981	4	3.24	10OCT1981	20	2.84
24SEP1981	12	2.47	07OCT1981	10	3.05	11OCT1981	19	2.93
24SEP1981	19	2.44	07OCT1981	16	3.00			

Table 2.--Ground-water level and quality--Continued

A-2. 434140074551002 - PANTHER LAKE - Well PG11--Continued

WATER QUALITY

Date	Time	Depth below land surface (water level, in feet)	Specific conductance (mhos/ at 25° C)	pH (field)	pH (lab)	Temperature (° C)	Calcium dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrate dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)
DEC , 1979																
27...	1200	3.21	56	5.0	5.0	--	1.4	0.2	5.8	0.3	--	14	1.3	8.4	0.20	0.010
JAN , 1980																
08...	1300	3.23	39	4.8	4.8	--	.7	.3	3.5	.2	--	12	.9	5.7	.18	<.010
FEB																
13...	1400	3.49	41	4.7	4.9	--	.7	.3	.8	.1	.01	11	1.0	1.1	.13	<.010
28...	1100	3.62	38	4.8	4.7	--	--	--	--	--	.25	--	--	--	--	--
MAR																
12...	1400	3.62	41	4.7	4.7	--	.7	.3	2.4	.3	.25	8.8	1.4	1.6	.06	<.010
25...	1100	3.04	56	5.1	5.0	--	.5	.2	7.2	.3	1.5	17	1.0	1.4	.25	.010
APR																
10...	1200	1.73	29	4.8	4.9	--	.5	.2	.6	.1	.50	7.9	.4	.9	.18	<.010
24...	1100	3.00	28	4.8	4.8	--	.6	.3	1.2	.2	.35	6.5	.4	1.5	.38	<.010
MAY																
04...	1100	3.11	32	4.8	5.3	--	.5	.3	1.4	.2	.55	6.7	.4	1.6	.36	<.010
28...	1600	3.47	29	4.4	4.8	--	.8	.3	1.5	.3	.65	7.1	.5	1.3	.40	.010
JUN																
11...	1500	2.83	30	4.8	4.6	--	.6	.3	1.1	.2	.01	6.9	.5	.8	.34	.010
JUL																
01...	1700	3.31	31	4.5	4.6	--	.7	.3	1.4	.2	.55	6.8	.8	1.4	.26	.010
15...	1300	3.50	29	4.9	4.8	--	.7	.3	1.3	.3	.50	6.2	.8	1.0	.35	.020
30...	1300	3.25	38	4.8	5.2	--	.9	.3	4.1	.7	3.0	7.2	1.2	.9	.44	.020
AUG																
13...	1400	3.48	35	4.8	5.0	--	.7	.3	3.1	.3	.65	6.5	1.3	.8	.40	.010
25...	1500	3.68	35	4.4	4.8	--	.6	.3	2.5	.3	.50	6.5	1.1	1.4	.39	.020
SEP																
12...	1300	3.76	33	4.8	4.9	--	.7	.3	2.6	.2	1.0	7.0	1.2	1.3	.38	.020
30...	1600	3.76	36	4.9	5.0	--	.6	.3	2.5	.3	.35	5.7	1.2	--	.34	.010
OCT																
01...	1600	--	36	4.9	5.0	--	.6	.3	2.5	.3	.35	5.7	1.2	1.9	.34	<.010
28...	1000	2.96	36	4.3	5.1	7.5	.6	.3	4.0	.3	1.2	7.6	.9	2.5	.45	<.010
DEC																
02...	1000	3.04	23	5.0	5.3	--	.7	.3	2.3	.2	1.1	7.6	.7	--	.20	.010
JAN , 1981																
06...	1200	3.48	31	5.0	5.5	--	.4	.2	3.5	.2	1.3	7.3	.6	4.6	.22	<.010
FEB																
05...	1400	3.21	33	5.9	5.6	--	.4	.2	4.5	.2	1.6	7.6	.5	<.2	.49	.010
21...	1400	2.58	35	5.2	5.6	--	.7	.3	4.1	.6	.01	8.0	.5	.7	.76	.020
25...	1200	2.14	33	6.1	5.1	--	.7	.3	2.8	.6	.40	7.8	.8	1.3	.35	.070
MAR																
04...	1300	2.82	29	5.0	5.1	3.5	.7	.3	2.1	.5	.50	6.9	.6	2.3	.35	.070
18...	1100	3.19	34	5.4	5.1	--	.6	.3	2.2	.5	.35	6.8	.6	1.5	.33	.060
APR																
01...	1400	2.39	34	5.1	5.1	4.0	.8	.4	2.6	.7	1.5	6.8	.7	1.1	.58	.110
28...	1200	2.98	34	5.3	4.9	3.5	.8	.5	1.1	.5	.85	6.7	.8	1.2	.64	.010
JUN																
02...	1600	3.32	29	4.6	5.0	6.0	.9	.4	1.4	.5	.20	6.5	.8	2.0	.57	.020

Table 2.--Ground-water level and quality--Continued

A-2. 434140074551002 - PANTHER LAKE - Well PG11--Continued

WATER QUALITY

Date	Time	Depth below land surface (water level, in feet)	Specific conductance (mhos/ at 25° C)	pH (field)	pH (lab)	Temperature (° C)	Calcium dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrate dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)
JUL , 1981																
01...	1100	3.49	36	4.6	4.9	6.5	0.9	0.5	1.3	0.5	0.65	6.2	0.8	2.1	0.94	0.010
29...	1200	3.54	34	4.8	5.3	8.5	.8	.3	3.4	.6	1.4	7.1	.6	1.6	.08	.010
AUG																
27...	1100	3.50	32	4.8	5.8	9.0	.6	.2	3.2	.6	2.2	6.4	.7	2.3	.06	.010
SEP																
21...	1900	3.26	29	5.0	5.5	10.0	.6	.3	3.1	.5	—	6.9	.8	1.7	.23	.010
22...	0100	3.30	29	5.0	5.4	9.5	.7	.3	3.1	.7	—	6.3	.8	1.5	.33	<.010
22...	0700	3.23	30	5.1	—	—	.7	.3	3.0	.6	—	6.0	.9	1.6	.28	.010
22...	1200	3.15	34	5.1	—	—	.7	.3	2.9	.6	—	6.3	.9	1.9	.11	<.010
22...	1800	2.99	29	4.9	5.3	9.5	.6	.3	3.0	.5	—	5.8	.9	1.6	.16	.010
23...	0100	2.94	28	5.0	5.4	9.5	.6	.3	2.9	.6	—	5.8	.9	1.6	.12	.010
23...	0700	2.92	28	5.0	5.4	—	.7	.3	3.2	.7	—	5.9	1.0	1.9	.14	.010
23...	1300	2.93	29	5.0	5.3	—	.7	.3	3.1	.6	—	5.7	.9	1.7	.18	<.010
23...	1900	2.87	29	4.9	—	9.5	.6	.3	2.8	.5	—	5.5	.9	1.7	.22	.020
24...	0700	2.47	84	5.0	5.5	—	.7	.3	3.0	.5	—	5.7	.7	1.5	.22	<.010
24...	1200	2.47	48	4.9	5.2	—	.7	.3	2.8	.5	—	4.0	.8	1.6	.28	<.010
24...	1900	2.44	38	4.8	5.1	9.0	.8	.3	2.5	.5	—	3.9	.8	1.3	.33	<.010
25...	0800	2.54	28	5.0	5.4	—	.7	.3	2.7	.5	—	3.6	.8	1.5	.25	<.010
25...	1800	2.69	36	4.9	5.2	10.0	.7	.3	2.0	.5	—	3.5	.8	1.3	.42	<.010
26...	1500	2.82	80	5.2	5.6	—	.7	.3	2.4	.5	—	3.0	.9	1.3	.23	<.010
27...	1400	2.52	24	5.1	5.6	11.0	.7	.3	2.1	.5	—	2.9	.9	1.2	.25	<.010
28...	1500	2.94	62	5.0	5.3	7.5	.8	.3	2.0	.4	—	5.2	.8	1.5	.14	<.010
OCT																
01...	1600	3.13	23	5.2	5.7	8.0	.8	.3	1.7	.5	—	4.6	.8	1.6	.23	<.010
02...	0500	3.13	28	5.0	5.5	—	.8	.3	2.0	.5	—	4.5	.9	1.7	.06	<.010
06...	1600	3.21	24	4.9	5.3	9.0	.8	.3	1.5	.4	—	4.8	.8	1.7	.29	<.010
06...	2300	3.18	26	5.1	6.1	8.5	—	—	—	—	—	—	—	—	—	—
07...	0400	3.24	27	4.8	5.3	8.0	.8	.3	1.5	.4	—	4.8	.7	1.8	.40	<.010
07...	1000	3.05	28	4.8	5.7	7.0	—	—	—	—	—	—	—	—	—	—
07...	1600	3.00	27	4.8	5.4	7.5	.8	.3	1.9	.5	—	4.8	.7	1.6	.28	.020
07...	2200	2.93	26	4.8	5.5	7.5	—	—	—	—	—	—	—	—	—	—
08...	0400	2.80	25	4.9	5.5	7.5	.8	.3	1.8	.5	—	5.2	.7	1.7	.34	.010
08...	1000	2.72	27	4.8	6.1	7.0	—	—	—	—	—	—	—	—	—	—
08...	1600	2.72	27	4.8	6.0	8.0	.8	.3	2.2	.5	—	5.1	.8	2.1	.10	.020
08...	2200	2.67	27	4.9	5.6	8.0	—	—	—	—	—	—	—	—	—	—
09...	0400	2.68	29	4.9	6.7	7.5	.8	.3	2.1	.8	—	5.1	.8	1.6	.11	.010
09..,	1000	2.69	27	4.8	5.1	7.0	—	—	—	—	—	—	—	—	—	—
09...	1700	2.72	26	4.8	5.2	7.0	.8	.3	1.9	.4	—	5.0	.8	1.5	.22	.010
09...	2100	2.75	28	4.8	5.2	7.0	—	—	—	—	—	—	—	—	—	—
10...	1000	2.77	27	4.9	5.6	7.0	.7	.3	2.0	.4	—	5.2	.7	1.6	.13	.010
10...	2000	2.84	27	4.9	5.6	7.0	.8	.3	1.8	.4	—	5.1	.7	1.6	.26	.010
11...	1900	2.93	26	4.8	5.2	7.5	.8	.3	1.5	.5	—	5.1	.7	1.6	.26	.010

Table 2.--Ground-water level and quality--Continued

A-2. 434140074551002 - PANTHER LAKE - Well PG11--Continued

WATER QUALITY

Date	Time	Depth below land surface (water level, in feet)	Specific conductance (mhos/ at 25° C)	pH (field)	pH (lab)	Temperature (° C)	Calcium dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrate dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)
NOV , 1981																
03...	1100	2.53	25	4.9	5.2	7.5	0.9	0.4	2.0	0.6	1.1	6.2	1.2	1.8	0.01	<0.010
DEC																
02...	1000	3.10	28	4.9	--	6.0	--	--	--	--	--	--	--	--	--	--
JAN , 1982																
05...	1000	3.26	28	4.8	--	5.0	--	--	--	--	--	--	--	--	--	--

Table 2.--Ground-water level and quality--Continued

A-3. 434140074551003 - Panther Lake - Well PG12

WATER LEVELS

LOCATION.--Lat 43°41'40", long 74°55'10", Herkimer County, Hydrologic Unit 04150101, 82 ft (25 m) east from the southeast end of Panther Lake and about 3.5 mi (5.6 km) southeast of Old Forge.
Owner: Adirondack League Club.

AQUIFER.--Water table in outwash sand of late Wisconsinan age.

WELL CHARACTERISTICS.--Hand-augered observation well, diameter 1.25 in. (3.17 cm), depth 7.0 ft (2.13 m), galvanized-steel casing to 5.6 ft (1.71 m), top of steel screen at 5.6 ft (1.71 m), bentonite seal in annulus from 0 to 0.5 ft (0 to 0.15 m), backfilled with original materials.

DATUM.--Elevation of land-surface datum 5.84 ft (1.78 m) above 0.00-ft mark of lake staff gage; approximate altitude, 1,832 ft (558 m). Measuring point: inner edge of well head, 4.60 ft (1.40 m) above land surface.

PERIOD OF RECORD.--October 23, 1979, to December 2, 1981.

EXTREMES.--Highest water level 2.24 ft (0.68 m) below land-surface datum, May 27, 1980; lowest, 5.21 ft (1.6 m) below land-surface datum, July 14, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
23OCT1979	3.60	11JUN1980	3.27	01APR1981	3.07
15NOV1979	3.55	30JUN1980	3.68	02JUN1981	3.75
30NOV1979	3.19	01JUL1980	3.69	01JUL1981	3.93
12DEC1979	3.44	15JUL1980	3.86	14JUL1981	5.21
27DEC1979	3.39	29JUL1980	3.68	17JUL1981	4.06
08JAN1980	3.50	12AUG1980	3.83	26JUL1981	4.09
21JAN1980	3.58	13AUG1980	3.88	27JUL1981	4.05
13FEB1980	3.85	25AUG1980	4.03	29JUL1981	3.88
28FEB1980	3.86	12SEP1980	4.15	06AUG1981	4.08
12MAR1980	4.04	30SEP1980	4.07	12AUG1981	3.67
25MAR1980	3.55	28OCT1980	3.61	21AUG1981	3.73
10APR1980	2.73	03DEC1980	3.50	27AUG1981	3.90
24APR1980	3.40	06JAN1981	3.78	27OCT1981	3.12
04MAY1980	3.57	05FEB1981	4.48	03NOV1981	2.97
27MAY1980	2.24	04MAR1981	3.26	02DEC1981	3.58
10JUN1980	3.22	18MAR1981	3.60		

Table 2.--Ground-water level and quality--Continued

A-4. 434140074551004 - Panther Lake - Well PG13

WATER LEVELS

LOCATION.--Lat 43°41'40", long 74°55'10", Herkimer County, Hydrologic Unit 04150101, 71.5 ft (21.8 m) east from the southeast end of Panther Lake and about 3.5 mi (5.6 km) southeast of Old Forge.
Owner: Adirondack League Club.

AQUIFER.--Water table in outwash sand of late Wisconsinan age.

WELL CHARACTERISTICS.--Hand-augered observation well, diameter 1.25 in. (3.17 cm), depth 3.4 ft (1.04 m), polyvinylchloride (PVC) casing to 2.4 ft (6.73 m), top of PVC screen at 2.4 ft (0.73 m), backfilled with original materials.

DATUM.--Elevation of land-surface datum 5.16 ft (1.57 m) above 0.00-ft mark of lake staff gage; approximate altitude, 1,831 ft (558 m). Measuring point: inner edge of well head, 2.70 ft (0.82 m) above land surface.

PERIOD OF RECORD.--July 17, to December 2, 1981.

EXTREMES.--Highest water level 2.33 ft (0.71 m) below land-surface datum, September 26, 1981; lowest, 3.40 ft (1.04 m) below land-surface datum, July 17, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
17JUL1981	3.40	12AUG1981	2.86	27OCT1981	2.41
29JUL1981	3.23	21AUG1981	3.00	03NOV1981	2.35
06AUG1981	3.39	27AUG1981	3.23	02DEC1981	2.85

INTENSIVE SAMPLING, FALL 1981
WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

DATE	HOUR	WATER LEVEL	DATE	HOUR	WATER LEVEL	DATE	HOUR	WATER LEVEL
21SEP1981	19	3.00	25SEP1981	8	2.47	07OCT1981	22	2.77
22SEP1981	1	3.33	25SEP1981	18	2.45	08OCT1981	4	2.58
22SEP1981	7	2.87	26SEP1981	14	2.33	08OCT1981	10	2.56
22SEP1981	12	2.89	27SEP1981	14	2.67	08OCT1981	16	2.66
22SEP1981	18	2.81	28SEP1981	15	2.72	08OCT1981	22	2.54
23SEP1981	0	2.78	30SEP1981	23	2.86	09OCT1981	4	2.51
23SEP1981	6	2.71	01OCT1981	16	2.86	09OCT1981	10	2.51
23SEP1981	12	2.70	06OCT1981	16	2.89	09OCT1981	17	2.57
23SEP1981	21	2.78	06OCT1981	22	2.89	09OCT1981	22	2.67
24SEP1981	0	2.54	07OCT1981	4	2.79	10OCT1981	8	2.59
24SEP1981	6	2.45	07OCT1981	10	2.75	10OCT1981	19	2.63
24SEP1981	12	2.51	07OCT1981	17	2.82	11OCT1981	19	2.69
24SEP1981	19	2.47						

Table 2.--Ground-water level and quality--Continued

A-4. 434140074551003 - PANTHER LAKE - Well PG13--Continued

WATER QUALITY

Date	Time	Depth below land surface (water level, in feet)	Specific conductance (mhos/ at 25° C)	pH (field)	pH (lab)	Temperature (° C)	Calcium dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrate dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)
SEP , 1981																
21...	1900	3.00	44	4.2	4.2	9.0	--	--	--	--	--	--	--	--	--	--
22...	0100	3.33	46	4.2	4.2	--	1.3	0.3	0.5	0.4	--	4.2	1.6	4.1	0.02	<0.010
22...	0700	2.87	47	4.2	--	--	--	--	--	--	--	--	--	--	--	--
22...	1200	2.89	47	4.2	4.2	--	1.1	.3	.3	.6	--	4.3	1.8	3.3	<.01	<.010
22...	1800	2.81	49	4.1	4.1	10.0	1.2	.3	.3	.6	--	4.4	2.0	2.9	<.01	<.010
23...	0600	2.71	50	4.1	4.2	--	1.3	.3	.3	.5	--	4.3	2.0	3.4	<.01	<.010
23...	1200	2.70	47	4.2	--	--	1.3	.3	.4	.4	--	4.4	2.0	3.5	<.01	<.010
23...	2100	2.78	56	4.1	4.1	8.5	1.2	.3	.3	.4	--	4.3	1.9	2.8	<.01	<.010
24...	0600	2.45	52	4.1	4.1	--	1.1	.3	.3	.4	--	4.3	1.8	2.5	<.01	<.010
24...	1200	2.51	74	4.1	4.1	--	1.3	.3	.4	.5	--	4.1	1.7	3.3	<.01	<.010
24...	1900	2.47	59	4.1	4.1	--	1.2	.3	.4	.5	--	4.1	1.7	2.2	<.01	<.010
25...	0800	2.47	48	4.1	4.1	--	1.2	.3	.4	.4	--	4.2	1.7	2.2	<.01	<.010
25...	1800	2.45	60	4.1	4.1	10.0	1.2	.3	.4	.4	--	4.1	1.8	2.3	<.01	<.010
26...	1400	2.33	62	4.1	4.1	--	.7	.2	.2	.2	--	3.3	1.2	1.8	<.01	<.010
27...	1400	2.67	42	4.1	4.2	--	1.4	.3	.5	.5	--	3.9	1.6	2.7	<.01	<.010
28...	1500	2.72	66	4.1	4.2	7.5	1.5	.3	.4	.4	--	5.8	1.6	4.3	.04	.010
30...	0700	--	--	--	--	--	1.4	.4	.5	.4	--	5.1	1.7	4.3	.06	.010
30...	2300	2.86	49	4.2	4.1	7.0	1.5	.3	.4	.4	--	5.2	1.5	3.2	.12	.010
OCT																
01...	0400	--	56	4.1	4.1	--	1.5	.4	.4	.4	--	5.0	1.4	4.2	.22	.020
01...	1600	2.86	53	4.2	4.1	7.5	1.5	.4	.5	.4	--	5.0	1.5	4.0	.16	.010
06...	1600	2.89	54	4.2	4.5	--	1.4	.4	.5	.4	--	4.7	1.3	3.9	.11	.010
06...	2200	2.89	51	4.2	4.3	--	--	--	--	--	--	--	--	--	--	--
07...	0400	2.79	51	4.2	4.3	8.0	1.4	.3	.3	.6	--	4.3	1.4	3.2	.10	.010
07...	1000	2.75	51	4.2	4.3	7.0	--	--	--	--	--	--	--	--	--	--
07...	1700	2.82	52	4.2	4.2	7.0	1.1	.3	.3	.5	--	5.4	1.3	2.4	.10	.010
07...	2200	2.77	52	4.2	4.4	8.0	--	--	--	--	--	--	--	--	--	--
08...	0400	2.58	53	4.4	4.2	7.5	1.3	.3	.3	.5	--	5.4	1.4	2.7	.10	.030
08...	1000	2.56	53	4.1	4.5	7.0	--	--	--	--	--	--	--	--	--	--
08...	1600	2.66	54	4.1	4.5	7.5	1.1	.3	.3	.4	--	5.5	1.3	2.3	.07	.010
08...	2200	2.54	54	4.1	4.2	7.5	--	--	--	--	--	--	--	--	--	--
09...	0400	2.51	52	4.2	4.2	6.5	1.3	.3	.3	.6	--	4.3	1.0	2.9	.11	.010
09...	1000	2.51	54	4.2	4.2	6.0	--	--	--	--	--	--	--	--	--	--
09...	1700	2.57	46	4.1	4.3	7.5	1.2	.3	.3	.4	--	5.4	1.3	2.4	.15	.010
09...	2200	2.67	53	4.1	4.2	7.5	--	--	--	--	--	--	--	--	--	--
10...	0800	2.59	52	4.1	4.2	8.0	1.2	.3	.3	.5	--	5.4	1.4	2.7	.09	<.010
10...	1900	2.63	53	4.2	4.2	7.5	1.2	.3	.3	.4	--	5.0	1.5	2.6	.19	.010
11...	1900	2.69	54	4.2	4.3	6.0	1.2	.3	.4	.4	--	5.4	1.4	2.7	.18	.010
NOV																
03...	1100	--	--	4.3	4.3	7.5	1.2	.3	.4	.5	.01	5.7	1.4	2.3	.03	.010

Table 2.--Ground-water level and quality--Continued

A-5. 434140074551005 - Panther Lake - Well PG14

WATER LEVELS

LOCATION.--Lat 43°41'40", long 74°55'10", Herkimer County, Hydrologic Unit 04150101, 66 ft (20 m) east from the southeast end of Panther Lake and about 3.5 mi (5.6 km) southeast of Old Forge.
Owner: Adirondack League Club.

AQUIFER.--Water table in outwash sand of late Wisconsinan age.

WELL CHARACTERISTICS.--Hand-augered observation well, diameter 1.25 in. (3.17 cm), depth 8.0 ft (2.44 m), polyvinylchloride (PVC) casing to 7.0 ft (2.1 m), top of PVC screen at 7.0 ft (2.1 m), backfilled with original materials.

DATUM.--Elevation of land-surface datum 5.54 ft (1.69 m) above 0.00-ft mark of lake staff gage; approximate altitude, 1,832 ft (558 m). Measuring point: inner edge of well head, 2.40 ft (0.73 m) above land surface.

PERIOD OF RECORD.--July 17, 1981, to January 5, 1982.

EXTREMES.--Highest water level 2.71 ft (0.83 m) below land-surface datum, October 27, 1981; lowest, 3.79 ft ft (1.15 m) below land-surface datum, August 6, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
17JUL1981	3.78	13AUG1981	3.37	03NOV1981	2.73
29JUL1981	3.69	21AUG1981	3.45	02DEC1981	3.26
06AUG1981	3.79	27AUG1981	3.65	05JAN1982	3.38
12AUG1981	3.34	27OCT1981	2.71		

INTENSIVE SAMPLING, FALL 1981
WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

DATE	HOUR	WATER LEVEL	DATE	HOUR	WATER LEVEL	DATE	HOUR	WATER LEVEL
21SEP1981	19	3.46	25SEP1981	8	2.83	07OCT1981	22	3.11
22SEP1981	1	3.44	25SEP1981	18	2.88	08OCT1981	4	2.98
22SEP1981	7	3.47	26SEP1981	14	3.00	08OCT1981	10	2.93
22SEP1981	12	3.35	27SEP1981	15	3.04	08OCT1981	16	2.95
22SEP1981	18	3.21	28SEP1981	15	3.06	08OCT1981	22	2.93
23SEP1981	0	3.08	30SEP1981	23	3.24	09OCT1981	4	2.88
23SEP1981	6	3.15	01OCT1981	17	3.26	09OCT1981	10	2.89
23SEP1981	12	3.14	06OCT1981	16	3.36	09OCT1981	17	2.99
23SEP1981	19	3.10	06OCT1981	22	3.31	09OCT1981	22	2.99
24SEP1981	1	2.91	07OCT1981	4	3.25	10OCT1981	9	2.98
24SEP1981	7	2.80	07OCT1981	10	3.20	10OCT1981	19	3.01
24SEP1981	12	2.79	07OCT1981	17	3.18	11OCT1981	19	3.06
24SEP1981	19	2.76						

Table 2.--Ground-water level and quality--Continued

A-5. 434140074551004 - PANTHER LAKE - Well PG14--Continued

WATER QUALITY

Date	Time	Depth below land surface (water level, in feet)	Specific conductance (mhos/ at 25° C)	pH (field)	pH (lab)	Temperature (° C)	Calcium dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrate dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)
JUL , 1981																
29...	1200	3.69	35	5.1	--	7.5	--	--	--	--	--	--	--	--	--	--
AUG																
27...	1100	3.65	36	4.7	6.9	8.0	3.3	1.0	0.8	0.5	4.2	7.5	0.7	8.9	0.09	<0.010
SEP																
21...	1900	3.46	--	--	--	9.0	3.3	1.0	.7	.4	--	7.8	.7	5.6	.48	<.010
22...	0100	3.44	34	5.7	6.8	--	3.4	1.1	.8	.4	--	7.6	.7	5.2	.42	<.010
22...	0700	3.47	34	5.8	6.8	--	3.4	1.1	.8	.4	--	7.7	.7	5.5	.28	<.010
22...	1200	3.35	--	5.8	6.8	--	3.1	.9	.8	.5	--	7.0	.9	4.4	.32	.010
22...	1900	3.21	63	5.8	6.8	9.5	3.4	1.0	.7	.4	--	7.3	.7	5.8	.44	.010
23...	0600	3.15	65	5.5	6.4	--	2.5	.7	.6	.5	--	6.3	.8	2.7	.61	.010
23...	1200	3.14	57	5.6	6.7	--	3.1	1.0	.7	.4	--	7.1	.7	3.2	.45	<.010
23...	1900	3.10	68	5.8	6.9	8.0	3.4	1.0	.8	.4	--	7.5	.7	4.8	.45	.010
24...	0700	2.80	54	5.5	6.4	--	2.2	.7	.6	.5	--	6.1	.7	3.0	.64	.010
24...	1200	2.79	60	5.9	6.7	--	3.5	1.1	.8	.4	--	7.9	.7	6.3	.44	.010
24...	1900	2.76	36	5.7	6.9	9.0	3.4	1.1	.8	.4	--	7.7	.8	3.9	.44	.010
25...	0800	2.83	30	5.2	5.9	--	3.0	.9	.7	.4	--	7.0	.7	4.4	.46	<.010
25...	1800	2.88	--	5.8	6.9	9.5	3.4	1.1	.7	.4	--	7.6	.7	4.8	.44	.010
26...	1400	3.00	--	--	--	--	2.0	.7	.7	.6	--	6.4	.7	2.6	.59	.010
27...	1500	3.04	34	5.8	6.9	9.0	3.4	1.1	.8	.4	--	7.8	.7	6.0	.43	<.010
28...	1600	3.06	52	5.4	6.3	8.0	2.0	.7	.6	.4	--	6.3	.6	3.2	.55	.010
30...	2300	3.24	38	6.5	6.8	7.0	3.4	1.1	.7	.4	--	7.6	.6	8.4	.39	.010
OCT																
01...	1700	3.26	40	5.9	6.9	8.5	3.5	1.1	.8	.4	--	7.7	.6	8.4	.36	.010
02...	0500	--	35	5.6	6.4	--	3.3	1.0	.7	.5	--	7.6	.6	6.5	.36	.010
06...	1600	3.36	39	5.8	7.0	9.5	3.5	1.1	.8	.5	--	7.6	.6	6.5	.41	.010
06...	2200	3.31	39	5.7	7.2	8.0	--	--	--	--	--	--	--	--	--	--
07...	0400	3.25	41	5.6	7.0	9.0	3.3	1.0	.8	.4	--	7.7	.6	7.2	.38	.070
07...	1000	3.20	41	5.6	7.0	7.5	--	--	--	--	--	--	--	--	--	--
07...	1700	3.18	38	5.6	6.9	8.0	3.5	1.1	.8	.5	--	8.1	.6	8.5	.36	.010
07...	2200	3.11	39	5.7	7.0	7.5	--	--	--	--	--	--	--	--	--	--
08...	0400	2.98	38	5.5	7.0	7.5	2.8	.9	.7	.4	--	6.9	.6	4.5	.37	.010
08...	1000	2.93	39	5.6	6.8	7.0	--	--	--	--	--	--	--	--	--	--
08...	1600	2.95	37	5.5	6.8	7.5	2.9	.9	.7	.4	--	7.3	.6	4.3	.30	.020
08...	2200	2.93	37	5.6	7.0	7.5	--	--	--	--	--	--	--	--	--	--
09...	0400	2.88	40	5.6	7.1	7.0	2.8	.9	.7	.4	--	7.0	.6	4.5	.41	.010
09...	1000	2.89	42	5.9	7.1	7.0	--	--	--	--	--	--	--	--	--	--
09...	1700	2.99	40	5.7	7.0	7.0	3.7	1.1	.8	.4	--	8.0	.6	8.6	.34	.010
09...	2200	2.99	37	5.6	7.1	7.5	--	--	--	--	--	--	--	--	--	--
10...	0900	2.98	36	5.6	6.7	6.0	1.9	.6	.6	.5	--	6.3	.6	4.1	.49	.010
10...	1900	3.01	37	5.6	6.9	7.5	3.1	1.0	.7	.5	--	7.5	.6	6.6	.31	.020
11...	1900	3.06	37	5.6	6.9	7.5	3.1	1.0	.7	.4	--	7.5	.6	5.2	.34	.010

Table 2.--Ground-water level and quality--Continued

A-5. 434140074551004 - PANTHER LAKE - Well PG14--Continued

WATER QUALITY

Date	Time	Depth below land surface (water level, in feet)	Specific conductance (mhos/ at 25° C)	pH (field)	pH (lab)	Temperature (° C)	Calcium dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrate dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)
NOV , 1981																
03...	1100	2.73	34	5.5	6.5	7.5	2.6	0.8	0.7	0.4	3.0	8.0	0.9	3.7	0.21	<0.010
DEC																
02...	1000	3.26	33	4.7	--	7.0	--	--	--	--	--	--	--	--	--	--
JAN , 1982																
05...	1000	3.38	35	4.9	--	6.0	--	--	--	--	--	--	--	--	--	--

Table 2.--Ground-water level and quality--Continued

A-6. 434206074551001 - Panther Lake - Well PG40

WATER LEVELS

LOCATION.--Lat 43°42'06", long 74°55'10", Herkimer County, Hydrologic Unit 04150101, 40 ft (12 m) east from outlet gage of Panther Lake, 0.1 mi (0.2 km) upstream from Little Moose Lake, and about 3.2 mi (5.1 km) southeast of Old Forge.
Owner: Adirondack League Club.

AQUIFER.--Water table in sandy till of Wisconsinan age.

WELL CHARACTERISTICS.--Hand-augered observation well, diameter 1.25 in. (3.17 cm), depth 11.9 ft (3.63 m), polyvinylchloride (PVC) casing to 10.3 ft (3.14 m), top of PVC screen at 10.3 ft (3.14 m), bentonite seal in annulus from 1.7 to 2.1 ft (0.52 to 0.64 m) and from 8.3 to 9.3 ft (2.53 to 2.83 m), backfilled with original materials.

DATUM.--Elevation of land-surface datum 3.92 ft (1.19 m) below 0.00-ft mark of lake staff gage; approximate altitude 1,830 ft (558 m). Measuring point: inner edge of well head, 5.20 ft (1.60 m) above land surface.

PERIOD OF RECORD.--September 26, 1979, to January 5, 1982.

EXTREMES.--Highest water level 5.77 ft (1.84 m) below land-surface datum, January 5, 1982; lowest, 10.02 ft (3.05 m) below land-surface datum, July 27, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
26SEP1979	6.00	25JUN1980	7.90	18MAR1981	7.97
15NOV1979	7.18	01JUL1980	9.29	01APR1981	7.58
30NOV1979	6.33	14JUL1980	9.01	28APR1981	7.17
12DEC1979	7.33	15JUL1980	9.03	02JUN1981	8.29
27DEC1979	7.48	29JUL1980	9.62	01JUL1981	9.43
08JAN1980	7.97	30JUL1980	9.57	14JUL1981	9.67
21JAN1980	7.65	12AUG1980	8.69	17JUL1981	9.80
13FEB1980	8.65	13AUG1980	8.69	27JUL1981	10.02
28FEB1980	9.15	25AUG1980	9.30	29JUL1981	7.02
12MAR1980	9.35	12SEP1980	9.66	06AUG1981	9.68
25MAR1980	8.08	30SEP1980	9.71	12AUG1981	9.45
10APR1980	6.06	28OCT1980	8.82	21AUG1981	8.65
24APR1980	7.13	02DEC1980	7.61	27AUG1981	8.73
04MAY1980	7.38	06JAN1981	8.45	14SEP1981	7.94
27MAY1980	8.28	02FEB1981	8.82	27OCT1981	7.21
28MAY1980	8.33	21FEB1981	7.22	03NOV1981	6.41
10JUN1980	6.48	25FEB1981	6.03	02DEC1981	7.51
11JUN1980	6.68	04MAR1981	6.98	05JAN1982	5.77

Table 2.--Ground-water level and quality--Continued

A-6. 434206074551001 - PANTHER LAKE - Well PG40--Continued

WATER QUALITY

Date	Time	Depth below land surface (water level, in feet)	Specific conductance (mhos/ at 25° C)	pH (field)	pH (lab)	Temperature (° C)	Calcium dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrate dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)
DEC , 1981																
02...	0800	7.51	46	4.4	--	--	--	--	--	--	--	--	--	--	--	--
JAN , 1982																
05...	1200	5.77	52	4.4	--	5.5	--	--	--	--	--	--	--	--	--	--
JAN , 1980																
08...	1000	7.97	49	4.9	4.6	--	1.3	0.5	0.8	0.5	--	13	0.7	5.6	0.88	0.010
FEB																
28...	1300	9.15	47	4.7	4.6	--	--	--	--	--	.01	--	--	--	--	--
MAR																
25...	1000	8.08	50	4.6	4.5	--	1.8	.6	1.1	.7	.01	12	.9	2.6	.81	.010
APR																
10...	1400	6.06	44	5.1	5.7	--	2.2	.8	.1	.6	1.3	8.5	.7	1.9	.54	.200
24...	1200	7.13	51	4.6	4.5	--	1.6	.5	.7	.9	.01	14	.6	1.3	1.02	.020
MAY																
04...	1300	7.38	51	4.5	4.4	--	1.3	.5	.7	.7	.01	13	.6	2.1	.77	<.010
28...	1800	8.33	43	4.4	4.5	--	1.1	.4	.7	.6	.01	13	.6	2.0	.55	.010
JUN																
11...	1600	6.68	48	4.6	4.5	--	1.0	.4	.7	.5	1.0	12	.6	1.3	.73	.010
JUL																
01...	1700	9.29	32	5.3	6.6	--	.8	.3	.6	.4	3.8	5.8	.9	3.8	.22	.010
15...	1400	9.03	42	4.9	4.7	--	1.1	.4	1.2	.6	.05	11	.7	.9	.32	.030
30...	1400	9.57	54	4.5	4.6	--	1.0	.4	1.9	1.0	.40	13	1.0	1.8	.24	.010
AUG																
13...	1400	8.69	43	4.6	4.6	--	1.3	.5	.8	.5	.45	11	.7	1.0	.38	.010
25...	1500	9.30	47	4.5	4.5	--	1.1	.5	.9	.5	.80	11	.7	1.7	.40	.040
SEP																
12...	1500	9.66	45	5.3	4.7	--	1.4	.5	1.1	.8	.20	11	1.1	1.6	.42	.180
30...	1700	9.71	55	4.7	4.6	--	1.2	.5	1.5	.8	.01	11	1.4	2.7	.50	.120
OCT																
28...	1500	8.82	42	4.9	4.7	--	1.3	.6	1.0	.6	.01	11	1.0	3.0	.72	.010
DEC																
02...	1500	7.61	49	4.8	4.8	8.0	1.2	.5	.8	.5	.70	13	.7	4.6	.81	.010
JAN , 1981																
06...	1500	8.45	48	4.6	4.7	--	1.0	.4	1.0	.4	.10	13	.6	2.9	.54	.030
FEB																
21...	1500	7.22	45	4.7	4.7	--	1.1	.5	.7	.5	.01	12	.8	2.5	.63	<.010
25...	1500	6.03	50	4.3	4.7	--	1.2	.5	.8	.4	.05	12	.7	2.6	.73	<.010
MAR																
04...	1000	6.98	52	4.7	4.5	5.5	1.3	.5	.8	.5	.01	12	.8	1.5	.79	<.010
18...	1500	7.97	55	5.3	4.8	--	1.5	.5	1.3	.7	.40	13	1.2	2.6	.64	.280
APR																
01...	1000	7.58	50	4.7	4.7	7.0	1.2	.5	.8	1.2	.20	11	.9	2.0	.64	.010
28...	1400	7.17	50	4.9	4.8	5.5	1.1	.5	.9	.7	.55	12	1.0	3.1	.65	.050
JUN																
02...	0800	8.29	--	--	4.8	8.5	1.3	.5	1.4	.7	.85	12	1.6	4.5	.57	.080
JUL																
01...	0900	9.43	43	4.5	4.7	--	1.0	.5	.9	.4	.10	11	.9	4.0	.68	.010
29...	0900	7.02	44	4.3	4.9	10.0	1.2	.5	1.2	.7	.50	13	1.4	3.4	.65	.100
AUG																
27...	0800	8.73	49	4.3	4.8	--	1.5	.6	1.1	.7	.20	11	1.4	3.4	.84	.060
NOV																
03...	0800	6.41	52	4.5	4.7	8.5	1.1	.5	.9	.5	.01	12	1.1	3.2	1.04	.010

Table 2.--Ground-water level and quality--Continued

A-7. 434159074552301 - Panther Lake - Well PG50

WATER LEVELS

LOCATION.--Lat 43°41'59", long 74°55'23", Herkimer County, Hydrologic Unit 04150101, 35 ft (11 m) west from the northwest shore of Panther Lake, 0.1 mi (0.2 km) southwest of the foot bridge near the outlet of Panther Lake, and 3.1 mi (5.0 km) southeast of Old Forge.
Owner: Adirondack League Club.

AQUIFER.--Water table in silty sand of Wisconsinan age overlain by peat deposits.

WELL CHARACTERISTICS.--Hand-augered observation well, diameter 1.25 in. (3.17 cm), depth 3.8 ft (1.16 m), polyvinylchloride (PVC) casing to 2.2 ft (0.67 m), top of PVC screen at 2.2 ft (0.67 m), backfilled with original materials.

DATUM.--Elevation of land-surface datum 2.76 ft (0.84 m) above 0.00-ft mark of lake staff gage; approximate altitude 1,829 ft (557 m). Measuring point: inner edge of well head, 3.34 ft (1.02 m) above land surface.

PERIOD OF RECORD.--November 15, 1979, to December 2, 1981.

EXTREMES.--Highest water level 0.00 ft (0.00 m) below land-surface datum, October 27, 1981; lowest, 1.64 ft (0.50 m) below land-surface datum, July 15, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
15NOV1979	0.21	30JUL1980	1.09	02JUN1981	0.32
30NOV1979	.16	12AUG1980	1.41	01JUL1981	.44
12DEC1979	.12	13AUG1980	.36	17JUL1981	1.08
04MAY1980	.09	25AUG1980	.80	27JUL1981	.39
27MAY1980	.38	12SEP1980	.63	29JUL1981	.19
28MAY1980	.40	30SEP1980	.40	06AUG1981	.35
10JUN1980	.21	28OCT1980	.21	12AUG1981	.17
11JUN1980	.07	02DEC1980	.11	21AUG1981	.35
01JUL1980	.36	04MAR1981	.15	27AUG1981	.51
14JUL1980	1.10	18MAR1981	.19	27OCT1981	.00
15JUL1980	1.64	01APR1981	.05	03NOV1981	.20
29JUL1980	1.20	28APR1981	.19	02DEC1981	.22

Table 2.--Ground-water level and quality--Continued

A-7. 434159074552301 - PANTHER LAKE - Well PG50--Continued

WATER QUALITY

Date	Time	Depth below land surface (water level, in feet)	Specific conductance (mhos/ at 25° C)	pH (field)	pH (lab)	Temperature (° C)	Calcium dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrate dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)
DEC , 1979																
27...	1000	--	85	6.3	6.3	--	11	1.2	2.4	0.2	--	4.0	1.9	9.7	0.09	0.070
MAY , 1980																
04...	1200	0.09	61	5.9	7.1	--	3.1	.9	1.4	.1	12	2.1	.6	21	.01	.010
28...	1800	0.40	50	5.7	7.2	--	3.2	.9	1.4	.1	13	1.6	.5	18	.01	.010
JUN																
11...	1600	0.07	42	6.2	7.3	--	3.6	.9	.4	.2	13	1.9	.6	20	.04	.010
JUL																
01...	1800	0.36	42	5.9	7.4	--	3.2	.9	1.6	.1	14	1.6	.6	29	.01	.010
15...	1400	1.64	64	5.8	7.4	--	3.8	.9	1.8	.3	16	1.4	.6	31	.02	.050
30...	1400	1.09	70	5.8	7.5	--	4.0	1.0	2.2	.4	13	3.2	.3	--	.65	.010
AUG																
13...	1500	0.36	67	5.8	7.5	--	4.7	1.1	1.9	.2	16	1.4	.5	25	.05	.020
25...	1500	0.80	79	5.9	7.3	--	3.6	.9	2.0	.3	16	1.8	.6	18	.01	.040
SEP																
12...	1500	0.63	55	6.6	7.3	--	4.2	1.0	2.5	.3	18	1.7	.5	20	.10	.040
30...	1600	0.40	95	5.9	7.0	--	4.1	1.0	1.9	.2	17	1.3	.5	31	.01	.010
OCT																
28...	1400	0.21	77	6.1	7.3	8.0	4.0	1.0	1.8	.1	17	.8	.3	30	.01	<.010
DEC																
02...	1400	0.11	62	6.3	7.3	4.5	3.7	1.0	1.7	.1	18	.8	.3	29	.01	.010
MAR , 1981																
04...	1400	0.15	41	5.7	--	2.0	--	--	--	--	--	--	--	--	--	--
18...	1500	0.19	35	5.3	7.4	--	3.8	1.0	1.9	.4	18	1.9	1.0	17	.12	.250
APR																
01...	1100	0.05	50	6.3	7.3	4.0	4.3	1.1	1.9	.5	16	1.1	.8	28	.20	.010
28...	1300	0.19	40	6.3	7.3	5.5	3.4	.9	1.5	.1	16	.9	.4	31	.01	.010
JUN																
02...	0900	0.32	73	5.9	7.3	6.5	3.4	.9	--	--	--	--	--	--	--	--
JUL																
01...	1300	0.44	59	5.5	7.3	7.0	3.8	.9	2.1	.3	18	1.5	.7	32	.01	.020
29...	0900	0.19	72	5.5	7.3	12.0	3.5	.9	2.0	.2	15	1.0	.9	25	.02	.100
AUG																
27...	0800	0.51	46	5.5	7.4	--	3.9	1.0	2.0	.1	18	1.1	.7	33	.02	<.010
NOV																
03...	0900	0.20	35	6.3	7.4	--	4.0	1.0	2.1	.2	18	.9	1.0	31	.02	<.010
DEC																
02...	0900	0.22	38	5.9	--	--	--	--	--	--	--	--	--	--	--	--

Table 2.--Ground-water level and quality--Continued

A-8. 434159074552302 - Panther Lake - Well PG60

WATER LEVELS

LOCATION.--Lat 43°41'59", long 74°55'23", Herkimer County, Hydrologic Unit 04150101, 35 ft (11 m) west from the northwest shore of Panther Lake, 0.1 mi (0.2 km) southwest of foot bridge near the outlet of Panther Lake, and 3.1 (5.0 km) southeast of Old Forge.
Owner: Adirondack League Club.

AQUIFER.--Artesian water table in fine sands of Wisconsinan age confined by 3 ft (1 m) of lacustrine deposits.

WELL CHARACTERISTICS.--Hand-augered observation well, diameter 1.25 in. (3.17 cm), depth 8.6 ft (2.62 m), polyvinylchloride (PVC) casing to 7.0 ft (2.13 m), top of PVC screen at 7.0 ft (7.13 m), PVC liner 4-in. (10.16-cm) diameter from 0 to 6.2 ft (0 to 1.9 m), and bentonite seal in annulus from 0 to 0.5 ft (0 to 0.15 m) and from 4.6 to 5.7 ft (1.4 to 1.74 m).

DATUM.--Elevation of land-surface datum 2.82 ft (0.86 m) above 0.00-ft mark of lake staff gage; approximate altitude, 1,829 ft (557 m). Measuring point: inner edge of well head, 3.34 ft (1.02 m) above land surface.

PERIOD OF RECORD.--November 15, 1979, to November 3, 1981.

EXTREMES.--Highest water level 0.29 ft (0.09 m) above land-surface datum, September 23, 1981; lowest, 1.63 ft (0.49 m) below land-surface datum, July 14, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
15NOV1979	-0.04	15JUL1980	1.18	02JUN1981	0.12
30NOV1979	-.18	29JUL1980	.92	01JUL1981	.15
12DEC1979	.90	30JUL1980	.87	17JUL1981	.42
27DEC1979	-.01	12AUG1980	1.11	27JUL1981	.20
24APR1980	-.09	13AUG1980	.09	29JUL1981	.02
04MAY1980	-.06	25AUG1980	.34	06AUG1981	.19
27MAY1980	.11	12SEP1980	.35	12AUG1981	-.03
28MAY1980	.21	30SEP1980	.21	21AUG1981	.06
10JUN1980	-.15	28OCT1980	-.04	27AUG1981	.19
11JUN1980	-.25	01APR1981	-.27	27OCT1981	-.14
01JUL1980	.01	28APR1981	.19	03NOV1981	-.13
14JUL1980	1.63				

INTENSIVE SAMPLING, FALL 1981
WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

DATE	HOUR	WATER LEVEL	DATE	HOUR	WATER LEVEL	DATE	HOUR	WATER LEVEL
21SEP1981	18	-0.04	25SEP1981	8	-0.17	08OCT1981	3	-0.17
22SEP1981	0	-.02	25SEP1981	19	-.18	08OCT1981	9	-.20
22SEP1981	5	-.12	26SEP1981	14	-.15	08OCT1981	18	-.14
22SEP1981	11	-.14	27SEP1981	16	-.12	08OCT1981	23	-.13
22SEP1981	17	-.14	28SEP1981	14	-.12	09OCT1981	3	-.17
22SEP1981	23	-.14	01OCT1981	0	.01	09OCT1981	8	-.17
23SEP1981	5	-.12	01OCT1981	18	-.01	09OCT1981	9	-.17
23SEP1981	11	-.11	06OCT1981	18	-.16	09OCT1981	18	-.10
23SEP1981	21	-.29	07OCT1981	0	-.07	09OCT1981	23	-.07
24SEP1981	2	-.24	07OCT1981	3	-.12	10OCT1981	8	-.07
24SEP1981	5	-.24	07OCT1981	9	-.13	10OCT1981	21	-.07
24SEP1981	11	-.20	07OCT1981	19	-.13	11OCT1981	20	-.09
24SEP1981	20	-.23	08OCT1981	0	-.12			

Table 2.--Ground-water level and quality--Continued

A-8. 434159074552302 - PANTHER LAKE - Well PG60--Continued

WATER QUALITY

Date	Time	Depth below land surface (water level, in feet)	Specific conductance (mhos/ at 25° C)	pH (field)	pH (lab)	Temperature (° C)	Calcium dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrate dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)
DEC , 1979																
27...	1000	-0.01	65	7.2	--	--	--	--	--	--	--	--	--	--	--	--
APR , 1980																
24...	1100	-0.09	65	6.8	7.5	--	6.9	1.6	2.1	0.6	20	6.5	0.4	18	1.13	<0.010
MAY																
04...	1200	-0.06	65	6.7	7.5	--	6.8	1.6	2.1	.6	20	6.0	.4	18	1.16	.010
28...	1800	0.21	61	6.9	7.4	--	7.1	1.6	2.0	.6	21	5.3	.4	19	1.09	.010
JUN																
11...	1600	-0.25	66	7.0	7.6	--	7.4	1.6	2.1	.6	19	5.4	.4	18	1.16	.010
JUL																
01...	1800	0.01	66	6.4	7.8	--	7.2	1.6	2.1	.6	20	5.9	.4	18	1.08	.010
15...	1400	1.18	67	6.6	7.8	--	7.1	1.6	2.1	.6	21	5.7	.4	18	1.13	.030
30...	1400	0.87	70	6.6	7.8	--	6.3	1.6	2.2	.6	20	6.0	.4	18	1.05	.010
AUG																
13...	1500	0.09	69	6.4	7.7	--	6.3	1.4	2.2	.6	19	6.1	.4	18	1.08	.010
25...	1500	0.34	72	6.5	7.4	--	7.5	1.6	2.3	.7	21	6.8	.5	18	1.12	.030
SEP																
12...	1500	0.35	68	5.9	7.4	--	7.7	1.6	2.4	.6	20	5.9	.4	19	1.07	.020
30...	1600	0.21	84	6.8	7.3	--	7.7	1.6	2.2	.6	21	5.6	.3	18	1.09	.010
OCT																
28...	1300	-0.04	72	7.5	7.3	8.0	7.2	1.5	2.2	.7	21	5.8	.3	19	1.10	<.010
APR , 1981																
01...	1100	-0.27	67	6.6	7.4	4.5	7.5	1.7	2.1	.6	21	5.6	.4	17	1.11	.010
28...	1300	0.19	40	6.3	7.5	5.5	7.4	1.7	2.0	.7	20	5.5	.3	17	1.08	.010
JUN																
02...	0900	0.12	66	6.3	7.5	6.0	7.5	1.7	--	--	--	--	--	--	--	--
JUL																
01...	0900	0.15	68	6.0	7.4	6.0	7.6	1.7	2.1	.6	21	6.1	.4	18	1.21	.010
29...	0900	0.02	65	6.1	7.4	7.0	7.5	1.7	2.1	.6	21	5.7	.4	17	1.05	.010
AUG																
27...	0900	0.19	67	5.3	7.6	8.0	7.6	1.7	2.2	.7	21	5.7	.4	18	.99	.010
SEP																
21...	1800	-0.04	59	6.7	7.6	8.0	7.9	1.8	2.1	.6	--	5.8	.5	17	1.03	.010
22...	0500	-0.12	70	6.8	7.4	--	7.7	1.7	2.0	.6	--	5.6	.4	17	1.06	.010
22...	1100	-0.14	59	6.8	7.4	--	--	--	--	--	--	--	--	--	--	--
22...	1700	-0.14	65	7.0	7.6	--	7.7	1.7	2.0	.6	--	5.7	.4	18	1.06	<.010
22...	2300	-0.14	68	7.7	8.2	8.0	--	--	--	--	--	--	--	--	--	--
23...	0500	-0.12	64	6.8	7.4	--	7.8	1.8	2.1	.6	--	6.0	.4	17	1.07	<.010
23...	1100	-0.11	65	6.8	7.5	--	8.0	1.8	2.2	.8	--	5.5	.4	19	1.10	.010
23...	2100	-0.29	60	6.9	7.5	8.0	7.6	1.7	2.1	.6	--	5.8	.4	18	1.03	.010
24...	0200	-0.24	64	6.8	7.3	8.0	--	--	--	--	--	--	--	--	--	--
24...	0500	-0.24	--	--	--	--	7.7	1.8	2.2	.6	--	5.9	.4	18	1.09	<.010
24...	2000	-0.23	68	6.9	7.5	8.0	7.7	1.7	2.0	.6	--	5.7	.4	21	1.08	.010
25...	0800	-0.17	--	--	--	--	7.9	1.8	2.1	.7	--	5.6	.4	19	1.08	.010
25...	1900	-0.18	63	6.7	7.5	8.0	6.7	1.5	2.1	.6	--	5.5	.4	19	1.05	.010
26...	1400	-0.15	76	6.8	7.4	--	8.2	1.9	2.2	.7	--	5.6	.5	19	1.12	.010

Table 2.--Ground-water level and quality--Continued

A-8. 434159074552302 - PANTHER LAKE - Well PG60--Continued

WATER QUALITY

Date	Time	Depth below land surface (water level, in feet)	Specific conductance (mhos/ at 25° C)	pH (field)	pH (lab)	Temperature (° C)	Calcium dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrate dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)
SEP , 1981																
27...	1600	-0.12	61	6.8	7.5	10.0	7.9	1.8	2.1	0.7	--	5.6	0.4	20	1.07	0.020
28...	1400	-0.12	79	6.9	7.4	9.5	8.2	1.9	2.1	.7	--	5.5	.4	18	1.22	<.010
OCT																
01...	0400	--	68	7.0	7.7	--	8.0	1.8	2.0	.7	--	5.7	.4	18	1.04	.010
01...	1800	-0.01	70	7.0	7.7	8.0	7.9	1.8	2.1	.6	--	5.6	.3	19	1.05	.020
06...	1800	-0.16	70	6.9	7.7	8.5	8.0	1.8	2.1	.6	--	5.6	.3	19	1.11	.010
07...	0300	-0.12	71	7.3	7.5	8.0	--	--	--	--	--	--	--	--	--	--
07...	0900	-0.13	65	7.0	7.7	--	6.9	1.6	2.0	.6	--	5.6	.3	19	.99	.010
07...	1900	-0.13	63	7.0	7.6	--	--	--	--	--	--	--	--	--	--	--
08...	0300	-0.17	70	7.0	7.8	9.0	7.8	1.8	2.0	.7	--	5.8	.4	18	1.01	.020
08...	0900	-0.20	71	7.6	8.3	8.0	8.1	1.8	2.1	.6	--	5.7	.4	19	1.05	.010
08...	1800	-0.14	69	6.9	7.6	--	7.4	1.9	2.1	.6	--	5.7	.3	19	1.07	.010
08...	2300	-0.13	70	6.9	7.8	8.0	--	--	--	--	--	--	--	--	--	--
09...	0300	-0.17	65	6.9	7.6	8.0	7.5	1.7	2.0	.6	--	5.5	.3	18	.98	.010
09...	0900	-0.17	68	7.1	7.7	8.0	8.0	1.8	2.0	.6	--	5.6	.3	19	1.08	.020
09...	1800	-0.10	65	6.9	7.7	8.0	7.7	1.8	2.0	.6	--	5.9	.4	19	1.04	.010
09...	2300	-0.07	65	6.9	7.6	8.0	8.0	1.7	2.1	.6	--	5.6	.3	19	1.07	.020
10...	0800	-0.07	64	6.9	7.6	6.5	--	--	2.1	.6	--	5.7	.3	19	1.07	.010
10...	2100	-0.07	65	6.8	7.6	7.0	7.8	1.7	2.1	.7	--	5.7	.3	18	1.07	.030
11...	2000	-0.09	69	6.9	7.6	7.0	--	--	--	--	--	--	--	--	--	--
NOV																
03...	0900	-0.13	70	6.7	7.5	8.0	7.9	1.8	2.2	.7	21	5.6	.6	18	1.00	<.010

Table 2.--Ground-water level and quality--Continued

A-9. 434200074552401 - Panther Lake - Well PG65

WATER LEVELS

LOCATION.--Lat 43°42'00", long 74°55'24", Herkimer County, Hydrologic Unit 04150101, 140 ft (43 m) west from the northwest shore of Panther Lake and 3.0 mi (4.8 km) southeast of Old Forge.
Owner: Adirondack League Club.

AQUIFER.--Water table in outwash sand overlain by mud and silt deposits.

WELL CHARACTERISTICS.--Hand-augered observation well, diameter 1.25 in. (3.17 cm), depth 6.0 ft (1.83 m), polyvinylchloride (PVC) casing to 5.0 ft (1.52 m), top of PVC screen at 5.0 ft (1.52 m), backfilled with original materials.

DATUM.--Elevation of land-surface datum 3.70 ft (1.13 m) above 0.0-ft mark of lake staff gage; aproximate altitude, 1,830 ft (558 m). Measuring point: inner edge of well head, 1.41 ft (0.43 m) above land surface.

PERIOD OF RECORD.--July 27, to November 3, 1981.

EXTREMES.--Highest water level 0.20 ft (0.01 m) above land-surface datum, October 7, 1981; lowest, 0.40 ft (0.12 m) below land-surface datum, August 27, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
27JUL1981	0.27	12AUG1981	0.01	27AUG1981	0.40
29JUL1981	.03	13AUG1981	.04	27OCT1981	-.05
06AUG1981	.30	21AUG1981	.22	03NOV1981	-.05

INTENSIVE SAMPLING, FALL 1981
WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

DATE	HOUR	WATER LEVEL	DATE	HOUR	WATER LEVEL	DATE	HOUR	WATER LEVEL
21SEP1981	20	0.08	25SEP1981	9	-0.10	07OCT1981	23	-0.19
22SEP1981	2	.05	25SEP1981	19	-.09	08OCT1981	6	.01
22SEP1981	9	-.09	26SEP1981	16	-.03	08OCT1981	11	-.05
22SEP1981	14	-.14	27SEP1981	16	-.04	08OCT1981	17	-.17
22SEP1981	20	-.07	28SEP1981	15	-.04	08OCT1981	23	-.13
23SEP1981	2	-.08	01OCT1981	0	-.01	09OCT1981	5	-.08
23SEP1981	8	-.08	01OCT1981	17	.01	09OCT1981	11	-.11
23SEP1981	14	-.05	06OCT1981	18	-.07	09OCT1981	18	-.10
23SEP1981	22	-.18	07OCT1981	0	-.15	09OCT1981	22	-.05
24SEP1981	1	-.19	07OCT1981	6	-.06	10OCT1981	10	-.04
24SEP1981	7	-.18	07OCT1981	11	-.05	10OCT1981	21	-.08
24SEP1981	13	-.11	07OCT1981	18	-.20	11OCT1981	20	-.05
24SEP1981	20	.18						

Table 2.--Ground-water level and quality--Continued

A-9. 434200074552401 - PANTHER LAKE - Well PG65--Continued

WATER QUALITY

Date	Time	Depth below land surface (water level, in feet)	Specific conductance (mhos/ at 25° C)	pH (field)	pH (lab)	Temperature (° C)	Calcium dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrate dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)
AUG , 1981																
27...	1300	0.40	46	5.5	6.9	11.5	2.8	0.6	1.5	0.7	4.8	6.8	0.9	10	0.06	0.040
SEP																
21...	2000	0.08	30	6.2	7.2	--	2.2	.5	1.1	.4	--	6.6	.4	7.4	.15	.050
22...	0200	0.05	30	5.7	6.6	--	--	--	--	--	--	--	--	--	--	--
22...	0900	-0.09	32	5.8	6.8	--	2.3	.5	1.1	.4	--	6.6	.4	6.0	.23	.050
22...	1400	-0.14	30	5.5	6.6	--	--	--	--	--	--	--	--	--	--	--
22...	2000	-0.07	31	5.7	6.7	--	2.5	.6	1.2	.5	--	6.6	.4	6.9	.28	.050
23...	0200	-0.08	31	5.6	7.2	10.0	--	--	--	--	--	--	--	--	--	--
23...	0800	-0.08	34	6.0	6.8	--	2.5	.6	1.2	.5	--	6.6	.4	6.0	.30	.040
23...	1400	-0.05	33	5.7	6.8	--	--	--	--	--	--	--	--	--	--	--
23...	2200	-0.18	30	5.4	6.6	--	2.6	.6	1.3	.5	--	6.4	.4	5.6	.46	.030
24...	0100	-0.19	34	5.9	6.8	--	--	--	--	--	--	--	--	--	--	--
24...	0700	-0.18	32	5.7	6.7	--	2.6	.6	1.3	.5	--	6.5	.4	4.4	.40	.010
24...	1300	-0.11	34	5.9	6.8	--	--	--	--	--	--	--	--	--	--	--
24...	2000	-0.18	30	5.5	6.7	--	2.6	.6	1.3	.5	--	6.7	.5	9.8	.34	<.010
25...	0900	-0.10	30	5.6	6.7	--	2.5	.6	1.3	.5	--	6.7	.4	6.1	.32	.040
25...	1900	-0.09	30	5.5	6.8	11.5	--	--	--	--	--	--	--	--	--	--
26...	1600	-0.03	32	5.8	6.8	--	2.6	.6	1.2	.5	--	6.8	.4	4.5	.22	.050
27...	1600	-0.04	31	5.5	6.7	12.0	2.8	.6	1.3	.5	--	6.7	.4	13	.30	.030
28...	1500	-0.04	31	5.7	6.8	9.0	2.8	.6	1.3	.5	--	6.6	.4	10	.23	.040
OCT																
01...	1700	0.01	34	6.1	7.1	9.5	3.2	.7	1.3	.5	--	6.6	.4	7.9	.32	.020
02...	0600	--	32	6.2	7.1	--	2.7	.6	1.2	.4	--	6.4	.4	6.5	.23	.010
06...	1800	-0.07	33	5.9	7.2	--	3.1	.7	1.2	.4	--	6.7	.4	7.8	.21	.010
07...	0600	-0.06	33	6.1	7.0	8.5	2.9	.6	1.2	.5	--	6.7	.4	9.8	.23	.020
07...	1100	-0.05	34	5.9	6.9	8.0	--	--	--	--	--	--	--	--	--	--
07...	1800	-0.20	33	6.0	6.9	8.5	3.0	.6	1.3	.4	--	6.7	.4	9.7	.34	.020
07...	2300	-0.19	34	5.9	6.8	9.0	--	--	--	--	--	--	--	--	--	--
08...	0600	0.01	26	6.5	6.9	8.5	3.0	.6	1.3	.5	--	6.8	.4	5.6	.39	.030
08...	1100	-0.05	34	6.0	6.8	7.5	--	--	--	--	--	--	--	--	--	--
08...	1700	-0.17	32	5.9	6.9	9.0	3.1	.6	1.3	.5	--	6.6	.4	11	.42	.030
08...	2300	-0.13	34	6.0	6.9	8.5	--	--	--	--	--	--	--	--	--	--
09...	0500	-0.08	33	6.0	6.9	7.5	2.8	.6	1.2	.4	--	6.6	.4	8.6	.33	.030
09...	1100	-0.11	33	6.0	6.9	8.0	--	--	--	--	--	--	--	--	--	--
09...	1800	-0.10	36	6.0	6.9	8.0	3.0	.6	1.3	.5	--	6.5	.4	8.3	.45	.030
09...	2200	-0.05	35	5.9	6.9	8.5	--	--	--	--	--	--	--	--	--	--
10...	1000	-0.04	26	5.9	6.9	6.0	2.9	.6	1.3	.5	--	6.6	.4	9.8	.37	.030
10...	2100	-0.08	26	5.8	6.9	7.5	3.3	.7	1.5	.5	--	6.4	.4	11	.52	.020
11...	2000	-0.05	32	6.0	7.0	8.5	2.9	.6	1.2	.4	--	6.6	.4	8.4	.23	.030
NOV																
03...	1300	-0.05	33	5.8	6.9	8.5	3.1	.7	1.1	.4	5.7	6.9	.5	12	.09	<.010

Table 2.--Ground-water level and quality--Continued

A-10. 434159074552801 - Panther Lake - Well PG67

WATER LEVELS

LOCATION.--Lat 43°41'59", long 74°55'28", Herkimer County, Hydrologic Unit 04150101, 270 ft (82 m) west from the northwest shore of Panther Lake and 3.0 mi (4.8 km) southeast of Old Forge.
Owner: Adirondack League Club.

AQUIFER.--Water table in sandy till of Wisconsinan age.

WELL CHARACTERISTICS.--Hand-augered observation well, diameter 1.25 in. (3.17 cm), depth 6.0 ft (1.83 m), polyvinylchloride (PVC) casing to 5.0 ft (1.52 m), top of PVC screen at 5.0 ft (1.52 m), backfilled with original materials.

DATUM.--Elevation of land-surface datum 13.81 ft (4.21 m) above 0.00-ft mark of lake staff gage; approximate altitude, 1,840 ft (561 m). Measuring point: inner edge of well head, 2.71 ft (0.83 m) above land surface.

PERIOD OF RECORD.--July 17, 1981, to January 5, 1982.

EXTREMES.--Highest water level 0.01 ft (0.003 m) above land-surface datum, October 27, 1981; lowest, 2.01 ft (0.61 m) above land-surface datum, August 27, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
17JUL1981	1.52	12AUG1981	0.97	27OCT1981	-0.01
27JUL1981	1.50	13AUG1981	1.20	03NOV1981	.07
29JUL1981	.75	21AUG1981	1.65	02DEC1981	.36
06AUG1981	1.63	27AUG1981	2.01	05JAN1982	.55

INTENSIVE SAMPLING, FALL 1981
WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

DATE	HOUR	WATER LEVEL	DATE	HOUR	WATER LEVEL	DATE	HOUR	WATER LEVEL
21SEP1981	20	1.53	25SEP1981	9	0.59	07OCT1981	23	0.29
22SEP1981	3	1.38	25SEP1981	19	.66	08OCT1981	5	.33
22SEP1981	8	.80	26SEP1981	15	.78	08OCT1981	11	.48
22SEP1981	13	.65	27SEP1981	15	.85	08OCT1981	18	.48
22SEP1981	20	.69	28SEP1981	15	.87	08OCT1981	23	.54
23SEP1981	2	.64	01OCT1981	0	1.19	09OCT1981	5	.43
23SEP1981	8	.65	01OCT1981	18	1.65	09OCT1981	11	.51
23SEP1981	13	.70	02OCT1981	5	1.11	09OCT1981	18	.57
23SEP1981	21	.26	06OCT1981	18	.53	09OCT1981	23	.60
24SEP1981	2	.27	07OCT1981	0	.63	10OCT1981	9	.66
24SEP1981	7	.36	07OCT1981	6	.68	10OCT1981	21	.71
24SEP1981	13	.50	07OCT1981	11	.58	11OCT1981	20	.71
24SEP1981	20	.50	07OCT1981	18	1.49			

Table 2.--Ground-water level and quality--Continued

A-10. 434159074552801 - PANTHER LAKE - Well PG67--Continued

WATER QUALITY

Date	Time	Depth below land surface (water level, in feet)	Specific conductance (mhos/ at 25° C)	pH (field)	pH (lab)	Temperature (° C)	Calcium dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrate dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)
AUG , 1981																
27...	1700	2.01	42	5.4	7.1	9.5	4.3	1.0	1.6	0.6	6.4	5.2	0.4	11	1.58	0.010
SEP																
21...	2000	1.53	41	6.5	6.9	11.5	4.1	.9	1.4	.6	—	4.9	.5	9.4	1.86	.020
22...	0300	1.38	42	6.5	6.9	—	--	--	--	--	--	--	--	--	--	--
22...	0800	0.80	42	6.1	7.1	—	4.5	1.0	1.4	.6	—	5.2	.6	8.7	1.54	.020
22...	1300	0.65	42	5.9	7.0	—	--	--	--	--	--	--	--	--	--	--
22...	2000	0.69	46	6.0	7.6	11.0	4.4	1.0	1.2	.9	—	5.3	.8	5.4	1.44	.010
23...	0200	0.64	44	5.9	7.7	11.5	--	--	--	--	--	--	--	--	--	--
23...	0800	0.65	39	6.0	7.1	—	4.3	.9	1.2	.7	—	5.4	.6	5.1	1.19	.020
23...	1300	0.70	44	5.9	6.9	—	--	--	--	--	--	--	--	--	--	--
23...	2100	0.26	39	6.0	7.1	11.0	4.3	.9	1.3	.6	—	5.3	.5	7.3	1.20	.010
24...	0200	0.27	41	6.1	7.0	11.0	--	--	--	--	--	--	--	--	--	--
24...	0700	0.36	39	6.0	6.9	—	4.1	.9	1.2	.7	—	5.6	.6	5.4	.96	.010
24...	1300	0.50	40	6.1	6.9	—	--	--	--	--	--	--	--	--	--	--
24...	2000	0.50	42	6.1	7.0	11.0	4.0	.9	1.3	.8	—	5.4	.6	4.4	1.09	.020
25...	0900	0.59	39	6.0	6.9	—	4.1	.9	1.2	.7	—	5.4	.5	6.1	1.16	.010
25...	1900	0.66	41	5.9	6.9	11.5	4.0	.9	1.3	.7	—	5.4	.6	4.4	1.19	.010
26...	1500	0.78	40	6.0	6.8	—	4.2	.9	1.4	.8	—	5.2	.6	9.4	1.26	.030
27...	1500	0.85	39	6.0	6.9	12.0	4.2	.9	1.4	.7	—	5.1	.5	8.5	1.58	.010
28...	1500	0.87	40	6.1	6.8	10.0	4.5	.9	1.5	.6	—	5.0	.5	10	1.40	.010
OCT																
01...	1800	1.65	43	6.3	7.2	10.0	4.4	.9	1.5	.5	—	4.8	.4	11	1.37	.010
02...	0500	1.11	44	6.6	7.1	—	4.5	.9	1.4	.5	—	4.8	.4	11	1.37	.010
06...	1800	0.53	44	6.3	7.3	9.0	4.5	.9	1.4	.5	—	4.6	.4	8.5	1.38	.010
07...	0600	0.68	43	6.3	7.2	9.0	4.7	.9	1.4	.5	—	4.6	.4	11	1.36	.010
07...	1100	0.58	43	7.0	7.2	8.5	--	--	--	--	--	--	--	--	--	--
07...	1800	1.49	46	6.2	7.1	9.0	4.6	.9	1.5	.8	—	4.7	.4	9.9	1.33	.010
07...	2300	0.29	43	6.3	7.2	9.0	--	--	--	--	--	--	--	--	--	--
08...	0500	0.33	44	6.3	7.2	9.0	4.7	.9	1.4	.5	—	4.6	.4	11	1.26	.010
08...	1800	0.48	45	6.4	7.1	9.0	4.6	.9	1.3	.5	—	4.6	.4	10	1.27	.010
08...	2300	0.54	43	6.4	7.3	8.0	--	--	--	--	--	--	--	--	--	--
09...	0500	0.43	42	6.4	7.2	7.0	4.3	.9	1.3	.5	—	4.6	.4	10	1.23	.010
09...	1100	0.51	42	6.6	7.2	8.0	--	--	--	--	--	--	--	--	--	--
09...	1800	0.57	41	6.3	7.3	9.0	4.5	.9	1.4	.6	—	4.7	.4	9.4	1.29	.020
09...	2300	0.60	42	6.3	7.2	9.0	--	--	--	--	--	--	--	--	--	--
10...	0900	0.66	42	6.2	7.0	8.0	4.5	.9	1.4	.5	—	4.6	.4	10	1.32	.010
10...	2100	0.71	40	6.3	7.2	8.0	4.2	.9	1.4	.5	—	4.6	.4	8.6	1.38	.020
11...	2000	0.71	52	6.6	6.9	8.0	4.5	.9	1.4	.5	—	4.6	.4	10	1.38	.010
NOV																
03...	1300	0.07	46	6.0	7.0	9.0	4.5	1.0	1.4	.5	7.5	5.3	.5	12	1.63	<.010

Table 2.--Ground-water level and quality--Continued

A-11. 434202074552601 - Panther Lake - Well PG68

WATER LEVELS

LOCATION.--Lat 43°42'02", long 74°55'26", Herkimer County, Hydrologic Unit 04150101, 340 ft (104 m) west from the northwest shore of Panther Lake and 3.0 mi (4.8 km) southeast of Old Forge.
Owner: Adirondack League Club.

AQUIFER.--Water table in sandy till of Wisconsinan age.

WELL CHARACTERISTICS.--Hand-dug and hand-augered observation well, diameter 1.25 in. (3.17 cm), depth 6.05 ft (1.84 m), polyvinylchloride (PVC) casing to 5.0 ft (1.52 m), top of PVC screen at 5.0 ft (1.52 m), backfilled with original materials.

DATUM.--Elevation of land-surface datum 8.93 ft (2.72 m) above 0.00-ft mark of lake staff gage; approximate altitude, 1,835 ft (559 m). Measuring point: inner edge of well head, 4.00 ft (1.22 m) above land surface.

PERIOD OF RECORD.--July 17, 1981, to January 5, 1982.

EXTREMES.--Highest water level 1.49 ft (0.45 m) below land-surface datum, October 27, 1981; lowest, 3.42 ft (1.04 m) below land-surface datum, July 17, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
17JUL1981	3.42	12AUG1981	2.44	27OCT1981	1.49
27JUL1981	2.85	13AUG1981	2.55	03NOV1981	1.62
29JUL1981	2.23	21AUG1981	2.87	02DEC1981	1.90
06AUG1981	2.98	27AUG1981	3.34	05JAN1982	2.21

INTENSIVE SAMPLING, FALL 1981
WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

DATE	HOUR	WATER LEVEL	DATE	HOUR	WATER LEVEL	DATE	HOUR	WATER LEVEL
21SEP1981	21	2.75	25SEP1981	9	2.03	08OCT1981	6	1.81
22SEP1981	3	2.68	25SEP1981	19	2.11	08OCT1981	11	1.90
22SEP1981	9	2.19	26SEP1981	16	2.17	08OCT1981	17	1.86
22SEP1981	14	2.23	27SEP1981	16	2.18	08OCT1981	23	2.05
22SEP1981	20	2.19	28SEP1981	15	2.11	09OCT1981	5	1.99
23SEP1981	2	2.20	01OCT1981	0	2.27	09OCT1981	11	2.03
23SEP1981	8	2.18	01OCT1981	18	2.38	09OCT1981	18	1.94
23SEP1981	14	2.18	07OCT1981	0	2.07	09OCT1981	23	2.07
23SEP1981	21	1.95	07OCT1981	6	2.16	10OCT1981	10	2.03
24SEP1981	1	1.78	07OCT1981	11	1.93	10OCT1981	21	2.02
24SEP1981	8	1.86	07OCT1981	18	2.03	11OCT1981	20	1.98
24SEP1981	13	1.98	08OCT1981	0	2.03			

Table 2.--Ground-water level and quality--Continued

A-11. 434202074552601 - PANTHER LAKE - Well PG68--Continued

WATER QUALITY

Date	Time	Depth below land surface (water level, in feet)	Specific conductance (mhos/ at 25° C)	pH (field)	pH (lab)	Temperature (° C)	Calcium dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrate dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)
AUG , 1981																
27...	1400	3.34	30	5.1	6.9	10.0	2.6	0.6	1.5	1.1	7.3	3.7	0.9	8.1	0.08	0.090
SEP																
21...	2100	2.75	32	6.1	7.2	--	2.4	.6	1.4	.8	--	3.8	.7	4.6	.17	.150
22...	0300	2.68	32	5.6	6.9	--	--	--	--	--	--	--	--	--	--	--
22...	0900	2.19	34	6.0	7.6	--	2.5	.6	1.5	.7	--	3.6	.7	3.8	.26	.170
22...	1400	2.23	32	5.6	7.0	--	--	--	--	--	--	--	--	--	--	--
22...	2000	2.19	33	5.7	6.8	--	2.4	.6	1.5	.8	--	4.0	.7	3.8	.32	.120
23...	0200	2.20	33	6.4	7.9	10.0	--	--	--	--	--	--	--	--	--	--
23...	0800	2.18	34	5.6	6.8	--	2.5	.6	1.5	.7	--	4.2	.7	4.0	.34	.160
23...	1400	2.18	34	5.7	6.8	--	--	--	--	--	--	--	--	--	--	--
23...	2100	1.95	31	5.6	6.8	10.0	2.4	.6	1.5	.7	--	4.6	.6	4.0	.35	.090
24...	0100	1.78	35	5.8	6.8	10.0	--	--	--	--	--	--	--	--	--	--
24...	0800	1.86	35	5.7	7.0	--	2.6	.6	1.5	.8	--	4.7	.6	3.7	.36	.150
24...	1300	1.98	34	5.7	6.7	--	--	--	--	--	--	--	--	--	--	--
24...	2100	--	32	5.6	6.8	--	2.6	.6	1.5	.7	--	5.0	.6	3.5	.33	.140
25...	0900	2.03	33	5.8	6.8	--	--	--	--	--	--	--	--	--	--	--
25...	1900	2.11	35	5.6	6.9	10.5	2.3	.6	1.5	.9	--	5.2	.7	4.4	.33	.010
26...	1600	2.17	33	5.7	6.7	--	2.6	.6	1.5	.7	--	5.2	.6	3.8	.30	.120
27...	1600	2.18	30	5.8	6.8	11.0	2.5	.6	1.5	.7	--	4.8	.6	5.4	.25	.100
28...	1500	2.11	34	5.7	6.7	9.5	2.9	.6	1.7	1.0	--	4.7	.7	7.5	.35	.190
OCT																
01...	1800	2.38	32	6.3	7.2	9.5	2.4	.6	1.5	.8	--	3.6	.6	4.4	.19	.010
02...	0600	--	33	5.9	7.1	--	2.6	.6	1.5	.7	--	3.8	.5	7.4	.30	.130
06...	1800	2.03	32	6.0	7.0	--	2.4	.6	1.3	.7	--	3.0	.6	4.6	.08	.010
07...	0600	2.16	33	5.9	7.1	8.0	2.6	.6	1.4	.8	--	4.4	.5	8.2	.23	.130
07...	1100	1.93	32	5.8	7.6	8.0	--	--	--	--	--	--	--	--	--	--
07...	1800	2.03	34	6.0	6.9	8.5	2.5	.6	1.4	.7	--	4.5	.5	6.4	.28	.060
08...	0600	1.81	34	6.2	7.0	8.5	2.6	.6	1.4	.7	--	4.4	.5	8.8	.27	.040
08...	1100	1.90	34	6.6	7.8	8.0	--	--	--	--	--	--	--	--	--	--
08...	1700	1.86	35	6.0	7.0	9.0	2.5	.6	1.4	.7	--	4.5	.6	7.4	.28	.020
08...	2300	2.05	33	6.0	7.0	9.0	--	--	--	--	--	--	--	--	--	--
09...	0500	1.99	34	6.0	7.0	8.0	2.5	.6	1.4	.7	--	5.1	.6	9.1	.34	.110
09...	1100	2.03	36	5.9	7.0	8.0	--	--	--	--	--	--	--	--	--	--
09...	1800	1.94	36	6.0	7.0	8.0	2.6	.6	1.4	.7	--	5.5	.5	10	.34	.140
09...	2300	2.07	36	6.0	7.0	8.5	--	--	--	--	--	--	--	--	--	--
10...	1000	2.03	34	5.8	6.9	7.5	2.6	.6	1.4	.7	--	5.3	.5	9.8	.33	.130
10...	2100	2.02	34	5.8	7.0	7.0	2.4	.6	1.4	.7	--	5.1	.5	5.4	.28	.010
11...	2000	1.98	32	5.8	7.0	9.0	2.5	.6	1.5	.7	--	5.0	.6	6.6	.24	.110
NOV																
03...	1300	1.62	31	5.6	6.8	9.0	2.4	.6	1.4	.6	6.2	4.3	.6	9.1	.41	.010

Table 2.--Ground-water level and quality--Continued

A-12. 434148074551901 - Panther Lake - Well PG70

WATER LEVELS

LOCATION.--Lat 43°41'48", long 74°55'19", Herkimer County, Hydrologic Unit 04150101, 76 ft (23 m) east from a point midway up the east shore of Panther Lake and 3.4 mi (5.4 km) southeast of Old Forge. Owner: Adirondack League Club.

AQUIFER.--Water table in sandy till of late Wisconsinan age.

GAGE.--Battery-driven graphic recorder attached to a small-diameter-float mechanism.

WELL CHARACTERISTICS.--Hand-augered observation well, diameter 1.25 in. (3.17 cm), depth 6.5 ft (1.98 m), polyvinylchloride (PVC) casing to 4.9 ft (1.49 m), top of PVC screen at 4.9 ft (1.49 m), screen packet with blasting sand, bentonite seal in annulus from 3.7 to 4.2 ft (1.13 to 1.28 m), backfilled with original materials.

DATUM.--Elevation of land-surface datum 10.47 ft (3.19 m) above 0.00-ft mark of lake staff gage; approximate altitude, 1,836 ft (560 m). Measuring point: edge of shelter table above junction of table and well head, 4.00 ft (1.22 m) above land surface.

PERIOD OF RECORD.--October 11, 1979, to January 5, 1982.

EXTREMES.--Highest water level 0.84 ft (0.26 m) below land-surface datum, April 10, 1980; lowest, 3.10 ft (0.94 m) below land-surface datum, September 17 and 18, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL, IN FEET), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980 READINGS AT 1200 HRS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	1.84	1.65	2.59
2	---	---	---	---	---	---	---	---	---	2.12	1.66	2.59
3	---	---	---	---	---	---	---	---	---	2.12	1.67	1.79
4	---	---	---	---	---	---	---	1.20	---	2.12	1.67	1.67
5	---	---	---	---	---	---	---	---	---	2.12	1.68	---
6	---	---	---	---	---	---	---	---	---	2.12	1.94	---
7	---	---	---	---	---	---	---	---	---	2.13	---	---
8	---	---	---	1.65	---	---	---	---	---	2.13	---	---
9	---	---	---	---	---	---	---	---	---	2.12	---	---
10	---	---	---	---	---	---	.84	---	1.20	2.13	---	---
11	2.00	---	---	---	---	---	---	---	1.45	2.13	---	---
12	---	---	1.72	---	---	---	---	---	---	2.13	2.25	2.77
13	---	---	---	---	2.06	---	---	---	---	2.14	2.40	---
14	---	---	---	---	---	---	---	---	---	2.14	---	---
15	---	1.70	---	---	---	---	---	---	---	2.09	---	---
16	---	---	---	---	---	---	---	---	---	1.35	---	---
17	---	---	---	---	---	---	---	---	---	1.48	---	3.10
18	---	---	---	---	---	---	---	---	---	1.57	---	3.10
19	---	---	---	---	---	---	---	---	---	1.59	---	2.77
20	---	---	---	---	---	---	---	---	---	1.60	---	2.84
21	---	---	---	1.48	---	---	---	---	---	.96	---	2.88
22	---	---	---	---	---	---	---	---	---	1.04	---	2.92
23	---	---	---	---	---	---	---	---	---	.98	---	2.95
24	---	---	---	---	---	---	1.15	---	---	1.07	---	2.96
25	---	---	---	---	---	1.37	---	---	1.77	1.17	2.62	2.96
26	---	---	---	---	---	---	---	---	1.78	1.23	2.62	2.96
27	---	---	---	---	---	---	---	1.73	1.80	1.33	2.62	2.97
28	---	---	---	---	2.27	---	---	1.77	1.82	1.45	2.62	2.97
29	---	---	---	---	---	---	---	---	1.82	1.83	2.62	2.98
30	---	---	---	---	---	---	---	---	1.74	1.64	2.62	2.99
31	---	---	---	---	---	---	---	---	---	1.64	2.62	---
MEAN	---	---	---	---	---	---	---	---	---	1.73	---	---
LOWEST	---	---	---	---	---	---	---	---	---	2.14	---	---
HIGHEST	---	---	---	---	---	---	---	---	---	.96	---	---

Table 2.--Ground-water level and quality--continued

A-12. 434148074551901 - Panther Lake - Well PG70--Continued

DEPTH BELOW LAND SURFACE (WATER LEVEL, IN FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 READINGS AT 1200 HRS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.16	---	---	---	---	1.46	1.17	---	---	2.14	---	---
2	---	---	---	---	---	1.52	---	---	1.80	2.27	---	---
3	---	---	1.56	---	---	1.55	---	---	---	---	---	---
4	---	---	---	---	---	1.58	---	---	---	---	---	---
5	---	---	---	---	2.27	1.61	---	---	---	---	---	---
6	---	---	---	2.23	2.29	1.65	---	---	---	---	2.69	---
7	---	---	---	---	2.31	1.68	---	---	---	---	---	---
8	---	---	---	---	2.33	1.71	---	---	---	---	---	---
9	---	---	---	---	2.35	1.73	---	---	---	---	---	---
10	---	---	---	---	2.37	1.75	---	---	---	---	---	---
11	---	---	---	---	1.78	1.76	---	---	---	---	---	---
12	---	---	---	---	1.68	1.77	---	---	---	---	1.78	---
13	---	---	---	---	1.90	1.79	---	---	---	---	---	---
14	---	---	---	---	1.94	1.80	---	---	---	2.71	---	2.25
15	---	---	---	---	1.97	1.80	---	---	---	---	---	---
16	---	---	---	---	1.98	1.81	---	---	---	---	---	2.46
17	---	---	---	---	1.99	1.82	---	---	---	2.66	---	2.30
18	---	---	---	---	1.76	1.83	---	---	---	---	---	2.50
19	---	---	---	---	1.58	1.83	---	---	---	---	---	---
20	---	---	---	---	1.39	1.83	---	---	---	---	---	2.07
21	---	---	---	---	1.26	1.83	---	---	---	---	2.43	---
22	---	---	---	---	1.01	1.83	---	---	---	---	---	---
23	---	---	---	---	.86	1.80	---	---	---	---	---	---
24	---	---	---	---	1.01	1.80	---	---	---	---	---	---
25	---	---	---	---	1.22	1.80	---	---	---	---	---	---
26	---	---	---	---	1.28	1.80	---	---	---	2.55	---	---
27	---	---	---	---	1.35	1.78	---	---	---	2.61	2.81	---
28	1.99	---	---	---	1.41	1.78	1.30	---	---	---	---	---
29	---	---	---	---	---	1.77	---	---	---	1.64	---	---
30	---	---	---	---	---	1.74	---	---	---	---	---	---
31	---	---	---	---	---	1.42	---	---	---	---	---	---
MEAN	---	---	---	---	---	1.73	---	---	---	---	---	---
LOWEST	---	---	---	---	---	1.83	---	---	---	---	---	---
HIGHEST	---	---	---	---	---	1.42	---	---	---	---	---	---

Table 2.--Ground-water level and quality--Continued

A-12. 434148074551901 - PANTHER LAKE - Well PG70--Continued

WATER QUALITY

Date	Time	Depth below land surface (water level, in feet)	Specific conductance (mhos/ at 25° C)	pH (field)	pH (lab)	Temperature (° C)	Calcium dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrate dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)
DEC , 1979																
27...	1100	1.18	88	6.4	--	--	--	--	--	--	--	--	--	--	--	--
JAN , 1980																
08...	1200	1.65	63	6.1	6.1	--	4.4	0.8	5.6	0.3	--	12	0.6	7.1	2.27	<0.010
FEB																
13...	1100	2.06	61	5.9	6.5	--	4.2	.8	4.3	.4	6.7	11	.5	11	2.02	<.010
28...	1200	2.27	63	6.0	6.8	--	--	--	--	--	4.9	--	--	--	--	--
MAR																
25...	1100	1.37	61	6.2	7.2	--	3.9	.8	4.8	.4	6.0	13	.5	12	1.81	.010
APR																
10...	1300	0.84	60	6.2	6.9	--	3.7	.7	.8	.2	5.1	11	.5	5.0	1.68	<.010
24...	1100	1.15	59	5.9	6.9	--	4.5	.8	2.8	.6	6.0	11	.7	8.6	1.84	.150
MAY																
04...	1100	1.20	58	5.9	6.7	--	4.0	.8	3.4	.4	4.8	11	.5	4.9	1.88	<.010
28...	1700	1.77	52	6.1	6.6	--	4.6	.9	2.8	.5	3.3	10	.5	14	2.16	.010
JUN																
11...	1500	1.45	55	5.9	6.7	--	4.7	.8	2.9	.6	3.6	10	.6	11	--	--
JUL																
01...	1600	1.84	58	5.4	6.9	--	4.6	.9	3.1	.6	3.6	9.7	.8	15	2.02	.010
15...	1200	2.09	58	5.6	6.9	--	4.8	.9	3.3	.6	3.8	10	.6	6.9	2.09	.030
30...	1300	1.64	60	5.6	7.0	--	4.7	.8	3.6	.6	4.1	4.5	.5	16	1.69	.010
AUG																
13...	1300	2.40	58	5.6	6.8	--	2.5	.5	1.7	.2	3.1	5.5	.4	10.	.07	.010
25...	1400	2.62	61	6.2	6.5	--	4.4	.8	2.5	.5	2.6	9.6	.5	14	2.00	.020
SEP																
12...	1400	2.77	56	5.8	6.7	--	3.9	.7	2.6	.6	4.2	10	.6	14	1.95	.020
30...	1600	2.99	74	5.8	6.4	--	4.3	.8	4.2	.9	4.2	11	1.1	--	1.88	.060
OCT																
01...	1600	2.16	74	5.8	6.4	--	4.3	.8	4.2	.9	4.2	11	1.1	15	1.88	.060
28...	1100	1.99	62	6.8	6.7	6.5	3.7	.7	5.9	.5	5.2	11	.4	14	1.69	<.010
DEC																
03...	1100	1.56	61	7.1	6.8	--	4.1	.7	2.2	.6	5.0	10	.6	11	1.73	.010
JAN , 1981																
06...	1200	2.23	56	5.8	7.1	--	4.1	.8	4.4	.6	5.0	10	.8	12	1.71	.160
FEB																
05...	1300	2.27	64	6.8	7.2	--	4.8	.8	3.5	1.0	6.5	10	1.2	12	1.54	.240
21...	1400	1.26	53	6.2	7.0	--	3.7	.7	4.9	.4	3.7	9.9	.5	12	1.52	<.010
25...	1300	1.22	56	4.6	6.9	--	3.8	.7	4.5	.4	4.7	9.9	.5	10	1.54	<.010
MAR																
04...	1200	1.58	56	5.9	7.0	2.5	3.9	.7	2.3	.4	5.0	7.9	.5	14	1.66	<.010
18...	1500	1.83	65	6.8	7.1	--	4.3	.8	2.5	.6	5.3	11	.8	27	1.63	.130
APR																
01...	1500	1.17	56	6.4	6.6	4.5	4.4	.8	2.6	.8	4.6	8.9	.8	13	1.70	.040
28...	1100	1.30	54	6.5	6.6	4.5	4.4	.8	2.5	.6	4.1	9.5	.4	14	1.67	.010
JUN																
02...	1500	0.80	48	5.4	6.7	9.0	4.3	.8	--	--	--	--	--	--	--	--

Table 2.--Ground-water level and quality--continued

A-12. 434148074551901 - Panther Lake - Well PG70--Continued

DEPTH BELOW LAND SURFACE (WATER LEVEL, IN FEET), WATER YEAR OCTOBER 1981 TO DECEMBER 1981 READINGS AT 1200 HRS

DAY	OCT	NOV	DEC
1	---	---	---
2	---	---	1.45
3	2.16	1.22	---
4	---	---	---
5	---	---	---
6	---	---	---
7	---	---	---
8	---	---	---
9	---	---	---
10	---	---	---
11	---	---	---
12	---	---	---
13	---	---	---
14	---	---	---
15	---	---	---
16	---	---	---
17	---	---	---
18	---	---	---
19	---	---	---
20	---	---	---
21	---	---	---
22	---	---	---
23	---	---	---
24	---	---	---
25	---	---	---
26	---	---	---
27	1.15	---	---
28	---	---	---
29	---	---	---
30	---	---	---
31	---	---	---
MEAN	---	---	---
LOWEST	---	---	---
HIGHEST	---	---	---

Table 2.--Ground-water level and quality--Continued

A-12. 434148074551901 - PANTHER LAKE - Well PG70--Continued

WATER QUALITY

Date	Time	Depth below land surface (water level, in feet)	Specific conductance (mhos/ at 25° C)	pH (field)	pH (lab)	Temperature (° C)	Calcium dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrate dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)
DEC , 1981																
02...	1000	1.36	50	5.4	--	--	--	--	--	--	--	--	--	--	--	--
JAN , 1982																
05...	1100	1.46	60	5.6	--	--	--	--	--	--	--	--	--	--	--	--
JUL , 1981																
01...	1000	2.14	55	5.9	6.6	13.0	4.2	0.8	3.4	0.6	4.0	11	0.5	13	1.64	0.010
29...	1300	1.64	52	5.8	6.8	10.0	3.9	.7	3.7	.6	4.7	10	.5	15	1.56	<.010
AUG																
27...	1000	2.81	51	5.0	6.7	--	4.0	.8	3.1	.8	3.4	10	.6	15	1.51	<.010
SEP																
21...	1800	2.16	110	6.1	6.6	--	3.9	.7	2.4	.6	--	8.6	.6	9.9	1.71	<.010
22...	0600	1.27	57	6.0	6.8	--	3.6	.7	2.3	.6	--	9.0	.6	16	1.79	<.010
22...	1200	1.76	49	6.0	6.9	--	--	--	--	--	--	--	--	--	--	--
22...	1700	1.60	48	6.0	6.8	10.5	3.6	.7	2.3	.6	--	8.9	.5	9.7	1.75	<.010
23...	0600	1.58	89	5.9	6.7	--	4.1	.8	2.4	.6	--	8.4	.6	11	1.87	<.010
23...	1200	1.78	57	5.9	6.7	--	--	--	--	--	--	--	--	--	--	--
23...	1700	1.44	62	5.9	6.8	9.5	3.6	.7	2.4	.5	--	8.6	.5	15	1.82	.010
24...	0600	1.34	50	5.8	6.6	--	4.0	.8	2.4	.6	--	8.3	.5	12	1.90	<.010
24...	1200	1.48	50	5.9	6.8	--	--	--	--	--	--	--	--	--	--	--
24...	1800	1.36	92	6.1	6.8	10.0	3.7	.7	2.4	.5	--	8.5	.5	11	1.81	<.010
25...	0800	1.49	50	5.9	6.8	--	--	--	--	--	--	--	--	--	--	--
25...	1700	1.38	58	6.1	6.8	11.0	3.5	.7	2.4	.5	--	8.2	.5	9.6	1.75	<.010
26...	1400	1.58	50	5.8	6.4	12.0	3.7	.7	2.3	.5	--	8.2	.5	11	1.80	<.010
27...	1400	--	44	6.1	6.8	--	3.6	.7	2.3	.6	--	8.3	.5	12	1.77	.010
28...	1400	1.60	70	5.9	6.7	9.0	4.2	.8	2.3	.7	--	10	.6	14	1.66	.070
30...	2200	1.97	56	6.1	7.1	8.0	3.8	.8	2.2	.6	--	9.5	.5	9.9	1.60	.010
OCT																
01...	1500	1.96	56	6.1	7.1	9.0	3.9	.8	2.2	.6	--	9.8	.5	15	1.67	.010
02...	0400	1.99	56	5.9	7.0	--	3.8	.7	2.2	.6	--	9.8	.5	14	1.67	.010
06...	1500	1.84	56	6.1	6.9	9.5	3.8	.7	2.2	.6	--	9.3	.4	11	1.66	.010
06...	2200	1.55	57	6.0	6.8	8.5	--	--	--	--	--	--	--	--	--	--
07...	0400	1.63	54	6.2	6.9	8.0	4.0	.8	2.2	.6	--	9.3	.4	14	1.72	.010
07...	1000	1.64	54	5.9	7.0	7.5	--	--	--	--	--	--	--	--	--	--
07...	1600	1.85	57	6.0	7.0	8.0	4.0	.8	2.2	.6	--	9.7	.4	12	1.68	.010
07...	2100	1.49	57	6.1	6.9	8.0	--	--	--	--	--	--	--	--	--	--
08...	0400	1.49	53	6.2	6.7	7.5	4.0	.8	2.2	.6	--	9.5	.4	13	1.71	.010
08...	1000	1.40	55	6.2	7.1	7.5	--	--	--	--	--	--	--	--	--	--
08...	1500	1.46	58	5.9	7.0	--	3.7	.7	2.1	.6	--	9.7	.5	12	1.66	<.010
08...	2100	1.39	54	5.9	7.0	8.0	--	--	--	--	--	--	--	--	--	--
09...	0400	1.43	55	5.8	7.0	7.0	4.0	.8	2.2	.6	--	8.9	.4	13	1.69	.010
09...	1000	1.58	55	6.0	7.0	7.0	--	--	--	--	--	--	--	--	--	--
09...	1600	1.47	57	5.9	6.9	8.0	3.6	.7	2.1	.6	--	9.4	.5	12	1.67	<.010
09...	2100	1.52	55	5.9	7.1	8.0	--	--	--	--	--	--	--	--	--	--
10...	0800	1.53	50	5.9	7.1	6.0	3.9	.8	2.1	.6	--	7.5	.6	14	--	.010
10...	1900	1.58	54	6.0	6.9	8.0	4.1	.8	2.2	.6	--	9.3	.5	15	1.78	<.010
11...	2100	1.67	58	6.1	6.8	6.5	3.9	.8	2.2	.6	--	9.8	.5	14	1.74	.010
NOV																
03...	1000	1.13	53	4.6	6.7	8.0	4.0	.8	2.8	.6	3.6	9.3	.5	14	1.69	.010

Table 2.--Ground-water level and quality--Continued

A-13. 434148074551801 - Panther Lake - Well PG71

WATER LEVELS

LOCATION.--Lat 43°41'48", long 74°55'18", Herkimer County, Hydrologic Unit 04150101, 134 ft (41 m) east from midway along the east shore of Panther Lake and 3.4 mi (5.4 km) southeast of Old Forge.
Owner: Adirondack League Club.

AQUIFER.--Water table in sandy till of late Wisconsinan age.

WELL CHARACTERISTICS.--Hand-augered observation well, diameter 2.0 in. (5.08 cm), depth 7.0 ft (2.13 m), polyvinylchloride (PVC) casing to 5.6 ft (1.7 m), top of PVC screen at 5.6 ft (1.7 m), backfilled with original materials.

DATUM.--Elevation of land-surface datum 16.00 ft (4.88 m) above 0.00-ft mark of lake staff gage; approximate altitude, 1,842 ft (561 m). Measuring point: chisel mark on shelter table above junction of table and well head, 3.80 ft (1.16 m) above land surface.

PERIOD OF RECORD.--July 14, 1981, to January 5, 1982.

EXTREMES.--Highest water level 2.22 ft (0.68 m) below land-surface datum, November 3, 1981; lowest, 5.33 ft (1.62 m) below land-surface datum, August 27, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
14JUL1981	4.51	06AUG1981	5.11	27OCT1981	3.01
17JUL1981	4.56	12AUG1981	4.97	03NOV1981	2.22
26JUL1981	4.87	21AUG1981	5.11	02DEC1981	2.52
27JUL1981	4.94	27AUG1981	5.33	05JAN1982	3.61
27JUL1981	4.71				

INTENSIVE SAMPLING, FALL 1981
WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

DATE	HOUR	WATER LEVEL	DATE	HOUR	WATER LEVEL	DATE	HOUR	WATER LEVEL
21SEP1981	18	5.16	25SEP1981	8	4.29	07OCT1981	22	3.96
22SEP1981	0	5.17	25SEP1981	18	4.15	08OCT1981	4	3.82
22SEP1981	6	5.07	26SEP1981	14	4.18	08OCT1981	10	3.76
22SEP1981	12	5.11	27SEP1981	13	4.19	08OCT1981	16	3.70
22SEP1981	18	4.89	28SEP1981	15	4.33	08OCT1981	21	3.74
23SEP1981	0	4.85	30SEP1981	22	4.26	09OCT1981	4	3.65
23SEP1981	6	4.80	01OCT1981	16	4.16	09OCT1981	10	3.66
23SEP1981	12	4.88	02OCT1981	4	4.18	09OCT1981	16	3.69
23SEP1981	18	4.81	06OCT1981	16	4.17	09OCT1981	21	3.71
24SEP1981	0	4.49	06OCT1981	22	4.14	10OCT1981	8	3.64
24SEP1981	6	4.43	07OCT1981	4	3.95	10OCT1981	19	3.65
24SEP1981	12	4.44	07OCT1981	10	4.00	11OCT1981	21	3.67
24SEP1981	18	4.30	07OCT1981	16	4.01			

Table 2.--Ground-water level and quality--Continued

A-13. 434148074551801 - PANTHER LAKE - Well PG71--Continued

WATER QUALITY

Date	Time	Depth below land surface (water level, in feet)	Specific conductance (mhos/ at 25° C)	pH (field)	pH (lab)	Temperature (° C)	Calcium dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrate dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)
AUG , 1981																
27...	1000	5.33	55	4.8	5.1	9.5	4.4	0.9	1.2	0.7	0.35	10	0.8	3.2	2.27	<0.010
SEP																
21...	1800	5.16	61	4.8	4.9	10.0	5.1	1.0	1.1	.7	--	9.4	1.0	1.6	3.92	.010
22...	0600	5.07	90	4.8	4.9	--	5.1	1.0	1.1	.7	--	8.9	1.0	1.9	3.92	.010
22...	1200	5.11	74	4.8	4.9	--	--	--	--	--	--	--	--	--	--	--
22...	1800	4.89	70	4.8	4.9	--	5.4	1.1	1.1	.7	--	8.7	1.0	1.7	4.24	<.010
23...	0600	4.80	94	4.7	4.7	--	4.8	.9	.9	.7	--	7.5	1.2	1.8	4.87	.010
23...	1200	4.88	94	4.6	4.7	--	--	--	--	--	--	--	--	--	--	--
23...	1800	4.81	100	4.6	4.7	10.0	6.4	1.3	1.1	.7	--	8.0	1.4	2.0	8.26	.010
24...	0600	4.43	101	4.6	4.7	--	5.5	1.1	.9	.8	--	7.6	1.4	2.0	7.25	.040
24...	1200	4.44	103	4.6	4.7	--	--	--	--	--	--	--	--	--	--	--
24...	1800	4.30	89	4.7	4.8	10.0	6.2	1.4	.9	1.1	--	9.1	1.4	2.2	7.37	.090
25...	0800	4.29	63	5.0	4.8	--	--	--	--	--	--	--	--	--	--	--
25...	1800	4.15	--	--	--	10.0	4.5	.8	.7	1.0	--	13	1.1	1.7	2.01	<.010
26...	1400	4.18	54	4.8	4.8	12.0	4.1	.7	.7	.9	--	13	1.0	2.1	1.75	<.010
27...	1300	4.19	53	4.8	4.9	10.5	4.1	.6	.8	1.0	--	15	.8	2.6	1.09	.050
28...	1500	4.33	60	4.7	4.8	9.5	3.8	.6	.7	1.0	--	14	.9	3.2	.80	.040
30...	2200	4.26	55	4.8	5.0	9.5	3.6	.7	.7	.8	--	13	.8	2.1	.86	.020
OCT																
01...	1600	4.16	56	4.8	5.1	10.0	3.5	.6	.8	.8	--	12	.8	2.0	.94	.010
02...	0400	4.18	53	4.7	4.8	--	3.2	.5	.7	.8	--	12	.8	2.0	.52	.020
06...	1600	4.17	53	4.8	4.9	8.0	3.6	.7	.9	.6	--	9.9	.7	2.0	1.21	.010
06...	2200	4.14	51	4.8	4.9	9.0	--	--	--	--	--	--	--	--	--	--
07...	0400	3.95	--	4.8	4.9	8.5	3.5	.6	1.1	1.0	--	9.9	.7	1.8	.82	.010
07...	1000	4.00	49	4.9	5.1	--	--	--	--	--	--	--	--	--	--	--
07...	1600	4.01	52	4.8	4.9	8.5	3.4	.5	.7	.6	--	11	.9	2.0	.61	.010
07...	2200	3.96	53	4.8	4.9	9.0	--	--	--	--	--	--	--	--	--	--
08...	0400	3.82	50	4.8	5.1	7.5	3.3	.5	.8	.6	--	10	.9	1.9	.72	.040
08...	1000	3.76	53	4.8	5.0	7.5	--	--	--	--	--	--	--	--	--	--
08...	1600	3.70	55	4.8	5.0	8.5	3.5	.5	.7	.6	--	11	.8	2.0	.86	.010
08...	2100	3.74	52	4.8	5.1	7.5	--	--	--	--	--	--	--	--	--	--
09...	0400	3.65	52	4.8	4.9	8.0	3.5	.5	.7	.6	--	12	.8	2.9	.87	.020
09...	1000	3.66	50	4.8	4.9	7.5	--	--	--	--	--	--	--	--	--	--
09...	1600	3.69	52	4.8	4.9	8.5	3.3	.5	.7	.5	--	13	.8	2.8	.54	.010
09...	2100	3.71	50	4.8	5.0	--	--	--	--	--	--	--	--	--	--	--
10...	0800	3.64	47	4.8	4.9	6.0	3.3	.5	.7	.5	--	14	.8	2.7	.37	.010
10...	1900	3.65	48	4.8	5.0	8.5	3.2	.4	.7	.5	--	13	.7	2.7	.30	.010
11...	2100	3.67	49	4.8	5.2	7.0	3.3	.4	.7	.5	--	14	.8	2.5	.22	.020
NOV																
03...	1000	2.22	--	4.7	4.9	8.5	3.1	.4	.7	.4	.80	12	.7	2.8	.34	.010

Table 2.--Ground-water level and quality--Continued

A-14. 434134074551701 - Panther Lake - Well PG80

WATER LEVELS

LOCATION.--Lat 43°41'34", long 74°55'18", Herkimer County, Hydrologic Unit 04150101, 128 ft (39 m) west from the southwest end of Panther Lake and 3.5 mi (5.6 km) southeast of Old Forge.
Owner: Adirondack League Club.

AQUIFER.--Water table in sandy till of the late Wisconsinan age.

WELL CHARACTERISTICS.--Hand-augered observation well, diameter 1.25 in. (3.17 cm), depth 6.0 ft (1.83 m), galvanized-steel casing to 4.6 ft (1.40 m), top of screen at 5.0 ft (1.52 m), backfilled with original materials.

DATUM.--Elevation of land-surface datum 14.58 ft (4.44 m) above 0.00-ft mark of lake staff gage; approximate altitude, 1,841 ft (561 m). Measuring point: inner edge of well head, 3.14 ft (0.96 m) above land surface.

PERIOD OF RECORD.--April 1, 1981, to December 2, 1981.

EXTREMES.--Highest water level 0.91 ft (0.28 m) below land-surface datum, September 24, 1981; lowest, 2.26 ft (0.69 m) below land-surface datum, July 14, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
01APR1981	1.01	17JUL1981	2.24	13AUG1981	1.68
28APR1981	1.22	27JUL1981	2.12	21AUG1981	1.92
05MAY1981	1.29	29JUL1981	1.50	27AUG1981	2.16
02JUN1981	1.66	06AUG1981	2.11	03NOV1981	1.05
01JUL1981	1.62	12AUG1981	1.52	02DEC1981	1.28
14JUL1981	2.26				

INTENSIVE SAMPLING, FALL 1981
WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

DATE	HOUR	WATER LEVEL	DATE	HOUR	WATER LEVEL	DATE	HOUR	WATER LEVEL
21SEP1981	19	1.72	25SEP1981	9	1.17	07OCT1981	23	1.02
22SEP1981	2	1.56	25SEP1981	18	1.16	08OCT1981	5	.99
22SEP1981	7	1.07	26SEP1981	15	1.15	08OCT1981	10	1.00
22SEP1981	13	1.05	27SEP1981	15	1.22	08OCT1981	17	1.22
22SEP1981	19	1.16	28SEP1981	16	1.22	08OCT1981	22	1.24
23SEP1981	1	1.11	01OCT1981	0	1.49	09OCT1981	4	1.28
23SEP1981	7	1.18	01OCT1981	17	1.26	09OCT1981	10	1.22
23SEP1981	13	1.34	01OCT1981	23	1.28	09OCT1981	17	1.25
23SEP1981	21	.96	06OCT1981	17	1.01	09OCT1981	22	1.19
24SEP1981	1	.91	06OCT1981	23	1.02	10OCT1981	9	1.25
24SEP1981	7	.98	07OCT1981	10	1.12	10OCT1981	20	1.33
24SEP1981	13	1.07	07OCT1981	17	1.04	11OCT1981	19	1.28
24SEP1981	20	1.10						

Table 2.--Ground-water level and quality--Continued

A-15. 434146074553601 - Panther Lake - Well PG90

WATER LEVELS

LOCATION.--Lat 43°41'46", long 74°55'36", Herkimer County, Hydrologic Unit 04150101, 120 ft (36 m) west from midway along southwest shore of Panther Lake and 3.3 mi (5.3 km) southeast of Old Forge.
Owner: Adirondack League Club.

AQUIFER.--Water table in sandy till of Wisconsinan age.

WELL CHARACTERISTICS.--Hand-augered observation well, diameter 1.25 in. (3.17 cm), depth 6.0 ft (1.83 m), galvenized-steel casing to 5.0 ft (1.52 m), top of steel screen at 5.0 ft (1.52 m), backfilled with original materials.

DATUM.--Elevation of land-surface datum 22.05 ft (6.72 m) above 0.00ft mark of lake staff gage; approximate altitude, 1,848 ft (563 m). Measuring point: inner edge of well head, 1.15 ft (0.35 m) above land surface.
120 ft (36.6 m) from Panther Lake.

PERIOD OF RECORD.--July 1, to December 2, 1981.

EXTREMES.--Highest water level 0.92 ft (0.28 m) below land-surface datum, November 3, 1981; lowest, 4.86 ft (1.48 m) below land-surface datum, July 1, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
01JUL1981	4.86	21AUG1981	3.24	03NOV1981	0.92
12AUG1981	4.84	27AUG1981	3.11	02DEC1981	2.23
13AUG1981	4.61				

Table 2.--Ground-water level and quality--Continued

A-16. 434144074553301 - Panther Lake - Well PG91

WATER LEVELS

LOCATION.--Lat 43°41'44", long 74°55'33", Herkimer County, Hydrologic Unit 04150101, 110 ft (34 m) west from midway along the southwest shore of Panther Lake and 3.3 mi (5.3 km) southeast of Old Forge.
Owner: Adirondack League Club.

AQUIFER.--Water table in sandy till of Wisconsinan age.

WELL CHARACTERISTICS.--Hand-augered observation well, diameter 1.25 in. (3.17 cm), depth 8.0 ft (2.44 m), polyvinylchloride (PVC) casing to 7.0 (2.13 m), top of PVC screen at 7.0 ft (2.13 m), backfilled with original materials.

DATUM.--Elevation of land-surface datum 11.39 ft (3.47 m) above 0.00-ft mark of lake staff gage; approximate altitude, 1,837 ft (560 m). Mesuring point: inner edge of well head, 3.81 ft (1.16 m) above land surface.

PERIOD OF RECORD.--July 27, 1981, to January 5, 1982.

EXTREMES.--Highest water level 0.30 ft (0.09 m) above land-surface datum, September 24, 1981; lowest, 3.69 ft (1.12 m) below land-surface datum, July 27, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
27JUL1981	3.69	13AUG1981	1.54	03NOV1981	0.02
29JUL1981	2.06	21AUG1981	.58	02DEC1981	.90
06AUG1981	3.61	27AUG1981	1.56	05JAN1982	1.46
12AUG1981	1.43	27OCT1981	-.21		

INTENSIVE SAMPLING, FALL 1981
WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

DATE	HOUR	WATER LEVEL	DATE	HOUR	WATER LEVEL	DATE	HOUR	WATER LEVEL
21SEP1981	20	0.38	25SEP1981	18	-0.27	07OCT1981	23	0.16
22SEP1981	2	.36	26SEP1981	15	-.22	08OCT1981	5	.16
22SEP1981	7	.15	27SEP1981	15	-.15	08OCT1981	11	.18
22SEP1981	13	.00	28SEP1981	16	-.05	08OCT1981	17	-.06
22SEP1981	19	.06	30SEP1981	23	.17	08OCT1981	22	-.12
23SEP1981	1	.07	01OCT1981	17	.45	09OCT1981	5	-.13
23SEP1981	7	.12	02OCT1981	5	.34	09OCT1981	11	-.16
23SEP1981	13	.08	06OCT1981	17	.34	09OCT1981	17	-.17
23SEP1981	21	-.21	07OCT1981	0	.25	09OCT1981	22	-.23
24SEP1981	1	-.15	07OCT1981	5	.35	10OCT1981	9	-.16
24SEP1981	7	-.22	07OCT1981	11	.27	10OCT1981	20	-.13
24SEP1981	13	-.30	07OCT1981	17	.31	11OCT1981	20	-.13
25SEP1981	9	-.20						

Table 2.--Ground-water level and quality--Continued

A-16. 434144074553301 - PANTHER LAKE - Well PG91-Continued

WATER QUALITY

Date	Time	Depth below land surface (water level, in feet)	Specific conductance (mhos/ at 25° C)	pH (field)	pH (lab)	Temperature (° C)	Calcium dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrate dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)
AUG , 1981																
27...	1300	1.56	31	4.8	5.7	9.5	2.1	0.4	0.9	0.8	0.80	4.4	0.4	2.3	1.38	0.010
SEP																
21...	2000	0.38	28	5.5	5.7	9.5	2.1	.4	1.0	.7	--	4.1	.3	2.0	1.22	.010
22...	0200	0.36	28	5.4	5.9	10.0	--	--	--	--	--	--	--	--	--	--
22...	0700	0.15	27	5.5	5.8	--	2.2	.4	1.1	.8	--	4.1	.4	2.2	1.28	<.010
22...	1300	0.00	28	5.4	5.8	--	--	--	--	--	--	--	--	--	--	--
22...	1900	0.06	30	5.5	5.8	--	2.1	.4	1.0	.7	--	3.9	.3	2.1	1.24	.010
23...	0100	0.07	27	5.3	5.9	9.5	--	--	--	--	--	--	--	--	--	--
23...	0700	0.12	29	5.5	5.8	--	2.3	.4	1.1	.8	--	3.8	.3	2.2	1.28	.010
23...	1300	0.08	30	5.5	5.9	--	--	--	--	--	--	--	--	--	--	--
23...	2100	-0.21	30	5.5	5.8	9.5	2.1	.4	1.0	.7	--	3.8	.3	2.4	1.28	<.010
24...	0700	-0.22	27	5.5	5.9	--	2.2	.4	1.0	.7	--	3.7	.3	2.5	1.26	<.010
24...	1300	-0.30	30	5.4	5.9	--	--	--	--	--	--	--	--	--	--	--
24...	2000	--	--	5.6	6.0	--	2.2	.5	1.1	.6	--	3.5	.3	2.1	1.25	<.010
25...	0900	-0.20	29	5.5	6.0	--	2.2	.5	1.1	.7	--	3.7	.3	2.4	1.22	<.010
25...	1800	-0.27	28	5.5	6.0	10.5	--	--	--	--	--	--	--	--	--	--
26...	1500	-0.22	28	5.6	6.0	12.0	2.3	.5	1.1	.7	--	3.6	.3	3.4	1.26	<.010
27...	1500	-0.15	34	5.5	6.0	--	2.2	.5	1.1	.7	--	3.5	.3	2.5	1.25	<.010
28...	1600	-0.05	28	5.4	5.9	--	2.0	.5	1.1	.7	--	4.2	.3	5.5	1.54	.010
30...	2300	0.17	30	5.5	6.7	8.5	1.9	.4	1.1	.7	--	4.1	.3	3.6	1.59	.010
OCT																
01...	1700	0.45	28	5.5	6.3	8.5	1.9	.4	1.1	.7	--	4.1	.3	2.9	1.60	.010
02...	0500	0.34	30	5.5	6.8	--	1.9	.4	1.1	.7	--	4.1	.3	3.3	1.61	.010
06...	1700	0.34	32	5.5	6.4	10.0	2.0	.5	1.0	.6	--	4.2	.3	2.8	1.61	.010
07...	0500	0.35	32	5.5	6.6	9.5	1.9	.5	1.0	.7	--	4.3	.3	2.9	1.56	.010
07...	1100	0.27	32	5.4	6.2	8.0	--	--	--	--	--	--	--	--	--	--
07...	1700	0.31	31	5.4	6.0	8.5	2.0	.5	1.1	.7	--	4.3	.3	3.9	1.58	.010
07...	2300	0.16	32	5.4	6.1	9.0	--	--	--	--	--	--	--	--	--	--
08...	0500	0.16	31	5.4	6.4	9.0	2.0	.5	1.0	.7	--	4.2	.3	3.0	1.57	.010
08...	1100	0.18	31	5.5	6.3	8.0	--	--	--	--	--	--	--	--	--	--
08...	1700	-0.06	30	5.5	6.4	8.5	2.0	.5	1.0	.7	--	4.0	.3	2.8	1.58	.010
08...	2200	-0.12	29	5.6	6.3	8.0	--	--	--	--	--	--	--	--	--	--
09...	0500	-0.13	31	5.7	6.4	8.0	2.0	.5	1.1	.7	--	3.8	.3	2.9	1.52	.010
09...	1100	-0.16	30	5.6	6.3	8.0	--	--	--	--	--	--	--	--	--	--
09...	1700	-0.17	30	5.5	6.2	8.0	2.0	.5	1.1	.6	--	3.7	.3	3.1	1.49	<.010
09...	2200	-0.23	31	5.6	6.6	8.0	--	--	--	--	--	--	--	--	--	--
10...	0900	-0.16	30	5.7	6.5	6.5	2.1	.5	1.1	.7	--	3.7	.4	7.6	1.54	.010
10...	2000	-0.13	36	5.8	6.5	8.5	2.0	.5	1.1	.7	--	3.6	.3	4.1	1.50	.010
11...	2000	-0.13	30	5.7	6.5	8.0	2.0	.5	1.1	.7	--	3.7	.3	5.2	1.53	<.010
NOV																
03...	1200	0.02	--	5.4	6.3	8.5	2.1	.5	1.4	.8	2.5	3.7	.7	6.0	1.47	.100

Table 2.--Ground-water level and quality--Continued

B-1. 434610074362501 - Sagamore Lake - Well SG20

WATER LEVELS

LOCATION.--Lat 43°46'10", long 74°36'25", Hamilton County, Hydrologic Unit 04150305, 1,000 ft (305 m) east from the east end of Sagamore Lake and 4.0 mi (6.4 km) southeast of Raquette Lake.
Owner: State of New York.

AQUIFER.--Water table in medium-grained sand of Wisconsinan age.

WELL CHARACTERISTICS.--Augered observation well, diameter 1.25 in. (3.17 cm), depth 12.1 ft (3.69 m), polyvinylchloride (PVC) casing to 10.5 ft (3.20 m), top of PVC screen at 10.5 ft (3.20 m), backfilled with original materials.

DATUM.--Elevation of land-surface datum 18.1 ft (5.5 m) above 0.00-ft mark of Lost Brook staff gage; approximate altitude, 1,919 ft (585 ft). Measuring point: inner edge of well head, 5.20 ft (1.58 m) above land surface.

PERIOD OF RECORD.--December 4, 1979, to January 4, 1982.

EXTREMES.--Highest water level 2.44 ft (0.74 m) below land-surface datum, March 2, 1981; lowest, 5.27 ft (1.61 m) below land-surface datum, July 28, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
04DEC1979	3.04	13JUN1980	2.85	02MAR1981	2.44
26DEC1979	3.36	02JUL1980	3.99	19MAR1981	4.00
07JAN1980	3.99	17JUL1980	4.15	30MAR1981	3.76
23JAN1980	4.00	31JUL1980	4.61	27APR1981	3.51
12FEB1980	4.56	14AUG1980	4.20	01JUN1981	3.94
26FEB1980	4.70	26AUG1980	4.53	03JUN1981	4.52
13MAR1980	4.85	10SEP1980	4.55	28JUL1981	5.27
26MAR1980	2.92	29SEP1980	4.49	26AUG1981	4.19
09APR1980	2.50	30OCT1980	3.49	05OCT1981	3.42
26APR1980	3.25	01DEC1980	3.68	01DEC1981	3.80
06MAY1980	3.26	05JAN1981	4.33	04JAN1982	4.36
30MAY1980	4.06	06FEB1981	5.26		

Table 2.—Ground-water level and quality—Continued

B-1. 434610074362501 - SAGAMORE LAKE - Well SG20

WATER QUALITY

Date	Time	Depth below land surface (water level, in feet)	Specific conductance (μmhos/ at 25° C)	pH (field)	pH (lab)	Temperature (° C)	Calcium dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrate dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)
DEC , 1979																
26...	1200	3.36	63	4.5	4.5	—	2.4	0.5	0.5	0.8	—	9.7	0.4	8.5	2.93	0.010
JAN , 1980																
07...	1200	3.99	69	4.6	4.6	—	2.4	.5	.5	.9	—	10	.5	8.5	3.16	.010
FEB																
12...	1500	4.56	67	4.5	—	—	—	—	—	—	—	—	—	—	—	—
26.	1300	4.70	72	4.5	4.6	—	2.4	.5	.5	1.0	.80	10	.5	1.7	3.98	<.010
MAR																
13..	1500	4.85	67	4.6	4.6	—	1.4	.3	.4	1.9	1.1	11	.5	2.5	3.30	.010
26...	1500	2.92	66	4.5	4.6	—	2.2	.5	.4	1.4	.25	11	.5	2.3	3.29	.010
APR																
09...	1300	2.50	63	4.5	4.6	—	2.1	.5	.4	1.7	.55	11	.5	1.6	2.60	.010
26...	1000	3.25	59	4.6	4.5	—	2.1	.4	.5	1.5	.25	12	.6	2.5	2.25	.010
MAY																
06...	1000	3.26	61	4.6	4.6	—	2.3	.5	.4	1.4	.40	13	.6	2.9	2.34	<.010
30...	1200	4.06	58	4.5	4.6	—	2.4	.5	.4	1.3	.70	13	.5	1.7	1.81	.030
JUN																
13...	1200	2.85	63	4.6	4.6	—	2.6	.5	.5	1.5	1.1	11	.6	1.5	—	<.010
JUL																
02...	1000	3.99	59	4.4	4.6	—	2.6	.5	.6	1.5	.25	4.3	.2	.9	.74	.010
17...	1100	4.15	64	4.4	4.6	—	2.6	.5	.7	1.6	1.2	11	.6	1.5	2.68	.030
31..	0900	4.61	100	3.8	4.6	—	2.6	.5	.6	1.4	.40	10	.6	1.4	3.34	.030
AUG																
14...	1300	4.20	68	4.5	4.7	—	2.7	.5	.8	1.5	.60	9.8	.8	2.1	2.84	.080
26...	1700	4.53	67	4.8	4.7	—	2.9	.5	.8	1.7	1.1	11	.8	1.9	2.97	.080
SEP																
10...	1500	4.55	68	5.1	4.6	—	2.9	.4	.7	1.5	.25	10	.5	2.0	3.71	.020
29...	1200	4.49	83	4.5	4.6	—	2.9	.4	.8	1.5	.35	11	.5	3.9	3.49	.010
OCT																
30...	1200	3.49	61	4.1	4.7	7.5	2.5	.4	.6	1.6	.45	11	.4	3.3	3.03	.010
DEC																
01...	1300	3.68	66	4.8	4.8	—	2.3	.3	.6	1.7	.45	10	.4	8.5	2.84	.010
JAN , 1981																
05...	1300	4.33	65	4.6	4.6	—	2.3	.4	.5	1.5	.20	10	.4	3.8	3.41	<.010
FEB																
06...	1300	5.26	63	4.5	4.7	—	2.2	.4	.5	1.5	.40	12	.5	4.7	2.50	—
MAR																
02...	1300	2.44	54	4.7	4.6	4.0	1.5	.3	1.0	1.4	.01	7.6	.7	2.5	1.37	.010
19...	1800	4.00	70	5.0	4.7	—	2.3	.4	.5	1.7	.35	11	.4	3.2	2.80	.010
30...	1500	3.76	62	4.7	4.7	4.5	2.2	.4	.6	1.5	.25	9.6	.5	2.1	2.74	.040
APR																
27...	1200	3.51	57	4.4	4.8	4.0	2.2	.4	.5	1.4	.95	10	.5	1.9	2.23	<.010
JUN																
03...	1400	4.52	57	4.8	4.8	6.5	2.1	.4	.5	1.2	.25	7.8	.5	2.9	1.66	.010
JUL																
28...	1200	5.27	54	4.5	4.8	7.5	1.5	.3	.4	.9	.60	8.7	.4	2.2	1.18	.070
AUG																
26...	1300	4.19	57	4.0	4.8	9.0	2.4	.4	.7	1.4	.50	13	.5	2.8	1.92	.020

Table 2.--Ground-water level and quality--Continued

B-1. 434610074362501 - SAGAMORE LAKE - Well SG20--Continued

WATER QUALITY

Date	Time	Depth below land surface (water level, in feet)	Specific conductance (mhos/ at 25° C)	pH (field)	pH (lab)	Temperature (° C)	Calcium dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrate dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)
OCT , 1981																
05...	1600	3.42	61	4.5	—	--	--	--	--	--	--	--	--	--	--	--
NOV																
02...	1500	—	63	4.6	4.7	9.0	1.9	0.4	0.6	1.4	0.15	10	0.5	3.0	2.85	<0.010
DEC																
01...	1200	3.80	57	4.5	—	--	--	--	--	--	--	--	--	--	--	--
JAN , 1982																
04...	1300	4.36	55	5.3	--	6.0	--	--	--	--	--	--	--	--	--	--

Table 2.--Ground-water level and quality--Continued

B-2. 434610074362502 - Sagamore Lake - Well SG21

WATER LEVELS

LOCATION.--Lat 43°46'10", long 74°36'25", Hamilton County, Hydrologic Unit 04150305, 1,100 ft (335 m) east from the east end of Sagamore Lake and 4.0 mi (6.4 km) southeast of Raquette Lake.
Owner: State of New York.

AQUIFER.--Water table in sand of Wisconsinan age.

WELL CHARACTERISTICS.--Augered observation well, diameter 1.25 in. (3.17 cm), depth 52 ft (15.8 m), depth of hole 59.5 ft (18.1 m), galvanized-steel casing to 50.6 ft (15.4 m), top of steel screen at 50.6 ft (15.4 m) backfilled with original materials.

DATUM.--Elevation of land-surface datum 18.4 ft (5.6 m) above 0.00-ft mark of Lost Brook staff gage; approximate altitude, 1,919 ft (585 m). Measuring point: inner edge of well head, 4.80 ft (1.46 m) above land surface.

PERIOD OF RECORD.--December 14, 1979, to December 1, 1981.

EXTREMES.--Highest water level 2.18 ft (0.66m) below land-surface datum, April 9, 1980; lowest, 4.55 ft (1.39 m) below land-surface datum, August 14, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
14DEC1979	2.55	06MAY1980	2.75	05JAN1981	3.73
26DEC1979	2.75	30MAY1980	3.96	27APR1981	2.57
07JAN1980	3.31	13JUN1980	2.45	01JUN1981	3.11
23JAN1980	3.35	02JUL1980	3.20	03JUN1981	3.20
12FEB1980	3.99	17JUL1980	4.03	29JUN1981	4.40
26FEB1980	4.27	30JUL1980	3.05	28JUL1981	3.73
13MAR1980	4.32	14AUG1980	4.55	26AUG1981	3.61
26MAR1980	2.65	26AUG1980	3.95	05OCT1981	2.92
09APR1980	2.18	30OCT1980	3.23	01DEC1981	2.97
26APR1980	2.54	01DEC1980	3.15		

Table 2.--Ground-water level and quality--Continued

B-3. 434611074362402 - Sagamore Lake - Well SG31

WATER LEVELS

LOCATION.--Lat 43°46'11", long 74°36'24", Hamilton County, Hydrologic Unit 04150305, 1,750 ft (533 m) east from the east end of Sagamore Lake and 4.1 mi (6.6 km) southeast of Raquette Lake.
Owner: State of New York.

AQUIFER.--Water table in sand of Wisconsinan age.

WELL CHARACTERISTICS.--Augered observation well, diameter 1.25 in. (3.17 cm), depth 17.0 ft (5.18 m), polyvinylchloride (PVC) casing to 15.4 ft (4.69 m), top of PVC screen at 15.4 ft (4.69 m), backfilled with original materials.

DATUM.--Elevation of land-surface datum was 18.8 ft (5.7 m) above 0.00-ft mark of Lost Brook staff gage; approximate altitude 1,920 ft (585 m). Measuring point: inner edge of well head, 4.50 ft (1.37 m) above land surface.

PERIOD OF RECORD.--December 14, 1979, to January 4, 1982.

EXTREMES.--Highest water level 3.26 ft (0.99 m) below land-surface datum, November 2, 1981; lowest, 6.08 ft (1.85 m) below land-surface datum, March 13, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
14DEC1979	4.43	02JUL1980	5.15	30MAR1981	5.05
26DEC1979	4.74	17JUL1980	5.52	27APR1981	4.59
07JAN1980	5.19	31JUL1980	4.96	01JUN1981	5.15
23JAN1980	5.26	14AUG1980	5.47	03JUN1981	5.24
12FEB1980	5.77	26AUG1980	5.75	29JUN1981	5.36
26FEB1980	6.02	10SEP1980	5.76	28JUL1981	5.60
13MAR1980	6.08	29SEP1980	5.85	26AUG1981	5.47
26MAR1980	4.14	30OCT1980	4.90	05OCT1981	4.66
09APR1980	3.77	01DEC1980	4.63	26OCT1981	4.92
26APR1980	4.40	05JAN1981	5.66	02NOV1981	3.26
06MAY1980	4.61	06FEB1981	5.76	01DEC1981	5.01
30MAY1980	5.27	02MAR1981	3.30	04JAN1982	5.60
13JUN1980	4.09	19MAR1981	5.14		

Table 2.--Ground-water level and quality--Continued

B-3. 434611074362402 - SAGAMORE LAKE - Well SG31

WATER QUALITY

Date	Time	Depth below land surface (water level, in feet)	Specific conductance (mhos/ at 25° C)	pH (field)	pH (lab)	Temperature (° C)	Calcium dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrate dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)
JAN , 1980																
07...	1400	5.19	50	6.0	6.0	--	4.1	0.7	1.0	1.1	--	6.9	0.6	11	1.68	0.010
FEB																
12...	1400	5.77	42	5.4	--	--	--	--	--	--	--	--	--	--	--	--
26...	1300	6.02	46	6.5	6.6	--	4.3	.7	1.2	.9	3.5	6.8	.6	9.5	1.75	<.010
MAR																
13...	1400	6.08	45	6.0	6.5	--	4.2	.8	1.2	1.2	4.7	6.6	.6	7.4	1.74	.010
26...	1500	4.14	45	6.1	6.5	--	4.1	.7	1.1	1.1	2.4	6.8	.5	8.5	1.87	.010
APR																
09...	1200	3.77	45	5.7	6.6	--	4.2	.7	.9	.9	2.3	6.7	.4	6.9	1.86	<.010
26...	1000	4.40	44	5.7	6.6	--	4.1	.7	1.2	1.2	2.5	6.8	.5	6.2	1.83	<.010
MAY																
06...	1000	4.61	44	5.7	6.6	--	4.1	.7	1.0	1.0	2.4	6.4	.4	9.6	2.05	<.010
30...	1200	5.27	44	6.0	6.6	--	4.2	.7	1.1	1.2	2.2	6.1	.4	4.8	2.09	.010
JUN																
13...	1200	4.09	44	6.1	6.6	--	--	.7	1.2	1.1	2.8	6.3	.5	8.0	1.79	.010
JUL																
02...	1100	5.15	46	6.5	6.9	--	3.9	.7	1.1	1.0	3.9	6.0	.5	8.0	1.64	.010
17...	1100	5.52	47	5.9	6.7	--	4.1	.7	1.2	1.1	3.0	6.4	.4	7.6	2.11	.040
31...	0900	4.96	44	5.1	6.6	--	4.0	.7	1.0	.9	2.1	6.9	.4	4.4	1.90	.030
AUG																
14...	1200	5.47	46	5.6	6.7	--	4.2	.7	1.2	1.1	3.6	6.4	.7	3.3	1.95	.130
26...	1700	5.75	43	5.7	6.4	--	4.0	.6	1.2	1.1	2.6	7.0	.5	6.2	1.85	.040
SEP																
10...	1500	5.76	40	5.1	6.4	--	3.8	.6	1.1	1.0	1.7	6.8	.4	4.0	1.89	.020
29...	1200	5.85	50	5.6	6.3	--	3.9	.6	1.1	1.2	1.4	6.6	.4	9.9	1.94	<.010
OCT																
30...	1100	4.90	47	5.3	6.3	8.0	3.9	.6	1.1	1.1	1.6	6.2	.4	9.5	1.89	.010
DEC																
01...	1300	4.63	48	5.6	6.4	8.0	3.8	.6	1.1	1.1	2.4	6.4	.4	11	1.81	.010
JAN , 1981																
05...	1300	5.66	44	5.6	6.3	--	3.9	.7	1.1	1.1	--	6.4	.4	7.8	--	<.010
FEB																
06...	1300	5.76	44	5.8	6.6	--	4.0	.7	1.1	1.1	1.6	6.7	.5	7.2	1.81	<.010
MAR																
02...	1400	3.30	38	5.4	6.7	5.5	3.9	.7	1.0	1.0	1.7	6.3	.4	8.9	1.88	<.010
19...	1800	5.14	--	--	6.6	--	3.8	.6	1.0	1.0	2.4	6.6	.4	5.9	1.61	<.010
30...	1500	5.05	41	5.9	6.4	5.5	3.8	.7	1.1	1.1	2.2	6.7	.5	9.1	1.54	.010
APR																
27...	1200	4.59	39	6.2	6.4	5.5	3.7	.6	1.0	1.1	2.8	6.9	.4	7.5	1.29	.010
JUN																
03...	1300	5.24	39	5.5	6.5	6.5	3.5	.6	1.0	.9	2.0	7.2	.3	10	1.11	.010
29...	1100	5.36	38	6.3	6.3	7.0	3.4	.6	.9	1.0	2.3	7.3	.3	9.3	1.08	.010
JUL																
28...	1200	5.60	35	5.3	6.4	7.5	3.4	.6	1.0	1.0	2.1	7.0	.4	9.5	1.12	<.010
AUG																
26...	1200	5.47	37	6.3	6.5	7.5	3.4	.6	1.0	1.0	2.1	7.2	.4	9.7	1.16	.010

Table 2.--Ground-water level and quality--Continued

B-3. 434611074362402 - SAGAMORE LAKE - Well SG31--Continued

WATER QUALITY

Date	Time	Depth below land surface (water level, in feet)	Specific conductance (mhos/ at 25° C)	pH (field)	pH (lab)	Temperature (° C)	Calcium dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrate dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)
OCT , 1981																
05...	1800	4.66	36	6.3	--	--	--	--	--	--	--	--	--	--	--	--
NOV																
02...	1500	3.26	39	5.8	6.6	9.0	3.5	0.6	1.2	1.1	3.2	7.0	0.8	9.6	1.26	0.030
DEC																
01...	1100	5.01	43	5.4	--	7.0	--	--	--	--	--	--	--	--	--	--
JAN , 1982																
04...	1300	5.60	47	4.8	--	7.0	--	--	--	--	--	--	--	--	--	--

Table 2.--Ground-water level and quality--Continued

B-4. 434607074361601 - Sagamore Lake - Well SG40

WATER LEVELS

LOCATION.--43°46'07", long 74°36'16", Hamilton County, Hydrologic Unit 04150305, 1,200 ft (366 m) east from the east end of Sagamore Lake and 4.1 mi (6.6 km) southeast of Raquette Lake.
Owner: State of New York.

AQUIFER.--Water table in sand of Wisconsinan age.

WELL CHARACTERISTICS.--Augered observation well, diameter 1.25 in. (3.17 cm), depth 12.0 ft (3.66 m), depth of hole 17.0 ft (5.18 m), polyvinylchloride (PVC) casing to 10.4 ft (3.17 m), top of PVC screen at 10.4 ft (3.17 m), backfilled with original materials.

DATUM.--Elevation of land-surface datum was 13.80 ft (4.21 m) above 0.00-ft mark of Lost Brook staff gage; approximate altitude, 1,915 ft (584 m). Measuring point: inner edge of well head, 5.00 ft (1.52 m) above land surface.

PERIOD OF RECORD.--December 14, 1979, to January 4, 1982.

EXTREMES.--Highest water level 1.64 ft (0.50 m) below land-surface datum, April 9, 1980; lowest, 3.74 ft (1.14 m) below land-surface datum, March 13, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
14DEC1979	2.34	13JUN1980	2.70	19MAR1981	1.75
26DEC1979	2.38	02JUL1980	3.25	30MAR1981	2.99
07JAN1980	3.13	31JUL1980	2.85	27APR1981	2.92
23JAN1980	3.08	14AUG1980	3.31	01JUN1981	3.33
12FEB1980	3.58	26AUG1980	3.59	03JUN1981	3.44
26FEB1980	3.72	10SEP1980	3.51	29JUN1981	3.39
13MAR1980	3.74	29SEP1980	3.54	28JUL1981	3.63
26MAR1980	2.13	30OCT1980	2.81	26AUG1981	3.55
09APR1980	1.64	01DEC1980	3.00	05OCT1981	2.99
26APR1980	2.43	05JAN1981	3.57	02NOV1981	2.60
06MAY1980	2.68	06FEB1981	3.35	01DEC1981	3.23
30MAY1980	3.22	02MAR1981	2.11	04JAN1982	3.58

Table 2.--Ground-water level and quality--Continued

B-4. 434607074361601 - SAGAMORE LAKE - Well SG40--Continued

WATER QUALITY

Date	Time	Depth below land surface (water level, in feet)	Specific conductance (mhos/ at 25° C)	pH (field)	pH (lab)	Temperature (° C)	Calcium dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrate dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)
JAN , 1980																
07...	1400	3.13	40	4.9	4.9	--	2.5	0.3	0.4	0.4	--	5.9	0.3	6.3	1.42	0.010
FEB																
12...	1000	3.58	38	4.6	--	--	--	--	--	--	--	--	--	--	--	--
26...	1100	3.72	30	5.2	5.1	--	2.4	.2	.4	.3	.75	5.9	.3	1.1	.94	<.010
MAR																
13...	1300	3.74	30	5.0	5.2	--	2.5	.3	.4	.3	.70	6.1	.3	1.5	.84	<.010
26...	1400	2.13	32	4.9	4.8	--	2.2	.3	.3	.4	.45	6.6	.3	1.5	1.28	.010
APR																
09...	1100	1.64	48	4.7	4.6	--	2.6	.4	.4	.5	.55	8.0	.4	1.5	2.00	.010
26...	0900	2.43	42	4.8	4.7	--	2.7	.4	.4	.4	.25	7.2	.3	1.5	1.44	.010
MAY																
06...	0900	2.68	43	4.8	4.7	--	2.8	.3	.4	.4	.65	7.8	.4	1.8	1.81	.010
30...	1100	3.22	42	4.7	4.8	--	2.8	.4	.5	.5	.75	6.9	.4	1.3	1.75	.010
JUN																
13...	1200	2.70	41	4.8	4.7	--	3.0	.4	.5	.6	.80	7.8	.5	1.6	1.60	.010
JUL																
02...	1000	3.25	39	5.0	4.8	--	2.8	.3	.5	.5	.45	7.2	.5	1.8	1.33	.010
31...	0800	2.85	41	4.3	4.8	--	2.6	.3	.4	.5	.70	7.9	.3	.9	1.29	.020
AUG																
14...	1100	3.31	40	4.8	4.8	--	2.6	.3	1.1	1.0	.70	7.5	.4	1.2	1.18	.010
26...	1600	3.59	35	4.9	5.0	--	2.5	.3	.5	.6	1.1	7.6	.3	1.3	.90	.030
SEP																
10...	1300	3.51	33	4.8	4.8	--	2.3	.2	.4	.5	.75	7.5	.2	1.1	.75	.020
29...	1100	3.54	59	4.9	4.9	--	2.3	.2	.4	.5	.30	7.9	.2	5.6	.67	<.010
OCT																
30...	1000	2.81	37	4.3	5.0	8.0	2.2	.2	.4	.5	.95	8.1	.2	2.1	.77	<.010
DEC																
01...	1200	3.00	36	5.0	5.1	7.5	2.2	.3	.4	.5	.70	8.1	.3	4.8	.76	.010
JAN , 1981																
05...	1200	3.57	41	4.9	4.9	--	2.1	.2	.3	.5	.01	8.0	.2	1.1	.50	<.010
FEB																
06...	1500	3.35	32	4.9	5.0	--	2.0	.2	.3	.4	.70	7.8	.3	2.2	.47	<.010
MAR																
02...	1500	2.11	37	4.8	4.7	5.0	2.1	.3	.4	.6	.01	10	.4	3.6	.69	<.010
19...	1700	1.75	38	5.3	4.8	--	2.1	.3	.4	.6	.20	10	.3	1.8	.61	.010
30...	1300	2.99	37	4.9	4.8	5.0	2.1	.3	.4	.7	.20	8.4	.3	1.4	.59	.010
APR																
27...	1100	2.92	37	5.0	5.0	4.5	2.2	.4	.4	.8	.60	9.6	.4	1.5	.64	.020
JUN																
03...	1300	3.44	38	4.4	5.0	7.5	2.3	.3	.4	.5	.25	8.3	.3	2.1	.56	.010
29...	1100	3.39	35	5.5	4.9	8.0	2.3	.3	.4	.6	.40	8.2	.3	2.1	.58	.010
JUL																
28...	1100	3.63	35	5.1	5.0	9.5	2.3	.3	.4	.7	.60	8.2	.4	2.5	.56	.010
AUG																
26...	1200	3.55	35	4.5	5.0	11.0	2.3	.3	.4	.7	.70	8.3	.3	2.0	.59	.010
OCT																
05...	1800	2.99	35	4.8	--	--	--	--	--	--	--	--	--	--	--	--

Table 2.--Ground-water level and quality--Continued

B-4. 434607074361601 - SAGAMORE LAKE - Well SG40--Continued

WATER QUALITY

Date	Time	Depth below land surface (water level, in feet)	Specific conductance (mhos/ at 25° C)	pH (field)	pH (lab)	Temperature (° C)	Calcium dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrate dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)
NOV , 1981																
02...	1400	2.60	37	4.8	4.9	9.5	2.1	0.3	0.4	0.9	0.60	8.6	0.6	2.2	0.93	<0.010
DEC																
01...	1100	3.23	36	4.9	--	7.0	--	--	--	--	--	--	--	--	--	--
JAN , 1982																
04...	1300	3.58	32	4.8	--	6.5	--	--	--	--	--	--	--	--	--	--

Table 2.--Ground-water level and quality--Continued

B-5. 434612074361101 - Sagamore Lake - Well SG50

WATER LEVELS

LOCATION.--Lat 43°46'12", long 74°36'11", Hamilton County, Hydrologic Unit 04150305, 1,700 ft (518 m) east from the east end of Sagamore Lake and 4.1 mi (6.6 km) southeast of Raquette Lake.
Owner: State of New York.

AQUIFER.--Water table in sand of Wisconsinan age.

WELL CHARACTERISTICS.--Augered observation well, diameter 1.25 in. (3.17 cm), depth 16.5 ft (5.03 m), depth of hole 17.0 ft (5.18 m), polyvinylchloride (PVC) casing to 14.9 ft (4.54 m), top of PVC screen at 14.9 ft (4.54 m), backfilled with original materials.

DATUM.--Elevation of land-surface datum was 22.50 ft (6.86 m) above 0.00-ft mark of Lost Brook staff gage; approximate altitude, 1,924 ft (586 m). Measuring point: inner edge of well head, 3.70 ft (1.13 m) above land surface.

PERIOD OF RECORD.--December 14, 1979, to January 4, 1982.

EXTREMES.--Highest water level 5.32 ft (1.62 m) below land-surface datum, March 2, 1981; lowest, 8.02 ft (2.44 m) below land-surface datum, September 10, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
14DEC1979	5.83	02JUL1980	6.45	19MAR1981	6.50
26DEC1979	5.92	17JUL1980	6.78	30MAR1981	6.33
07JAN1980	6.59	31JUL1980	6.55	27APR1981	5.72
23JAN1980	6.67	14AUG1980	7.03	01JUN1981	6.30
12FEB1980	7.34	26AUG1980	7.43	03JUN1981	6.42
26FEB1980	7.61	10SEP1980	8.02	29JUN1981	6.72
13MAR1980	7.88	29SEP1980	7.71	28JUL1981	7.19
26MAR1980	6.33	30OCT1980	7.02	26AUG1981	7.16
09APR1980	5.57	01DEC1980	6.88	05OCT1981	6.40
26APR1980	5.82	05JAN1981	7.32	02NOV1981	5.58
06MAY1980	5.95	06FEB1981	7.21	01DEC1981	5.99
30MAY1980	7.66	02MAR1981	5.32	04JAN1982	6.81
13JUN1980	5.59				

Table 2.--Ground-water level and quality--Continued

B-5. 434612074361101 - SAGAMORE LAKE - Well SG50

WATER QUALITY

Date	Time	Depth below land surface (water level, in feet)	Specific conductance (mhos/ at 25° C)	pH (field)	pH (lab)	Temperature (° C)	Calcium dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrate dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)
JAN , 1980																
07...	1300	6.59	--	6.8	6.8	--	5.2	1.3	2.2	0.4	--	7.5	0.6	18	0.99	<0.010
FEB																
12...	1100	7.34	54	6.6	--	--	--	--	--	--	--	--	--	--	--	--
26...	1100	7.61	56	7.1	7.2	--	5.3	1.2	1.9	.8	11	7.4	1.0	17	1.47	<.010
MAR																
13...	1400	7.88	61	6.5	7.2	--	6.2	1.3	2.0	.7	12	7.1	.7	18	1.80	<.010
26...	1400	6.33	62	6.4	7.1	--	6.6	1.7	2.1	.6	10	6.8	.7	18	2.35	.010
APR																
09...	1200	5.57	60	6.4	7.3	--	5.6	1.3	2.1	.7	12	7.1	.6	19	1.69	<.010
26...	0900	5.82	57	6.7	7.4	--	5.5	1.4	2.0	.7	12	8.1	.7	19	1.52	.010
MAY																
06...	0900	5.95	59	6.4	7.6	--	5.4	1.4	2.0	.6	12	7.8	.5	19	1.33	.010
30...	1100	7.66	58	6.6	6.7	--	5.4	1.3	2.1	.7	7.8	7.3	.5	18	1.55	<.010
JUN																
13...	1300	5.59	56	6.5	7.0	--	5.6	1.4	2.0	.6	12	7.7	.5	20	1.34	.010
JUL																
02...	1000	6.45	57	6.3	7.5	--	5.7	1.4	2.0	.7	11	8.0	.6	20	1.34	.010
17...	1000	6.78	61	6.3	7.6	--	5.4	1.3	2.1	.7	11	7.2	.6	17	2.00	.030
31...	0800	6.55	63	5.9	7.4	--	5.6	1.3	2.1	.7	9.2	6.9	.6	17	2.05	.020
AUG																
14...	1200	7.03	63	6.3	7.2	--	5.8	1.4	2.0	.7	9.7	6.8	.6	17	--	.020
26...	1600	7.43	64	6.4	7.1	--	6.5	1.4	2.3	.7	10	7.1	.6	18	2.38	.020
SEP																
10...	1200	8.02	62	5.6	7.3	--	6.6	1.4	2.3	.6	9.0	6.7	.7	17	2.71	.020
29...	1100	7.71	80	6.4	7.0	--	6.6	1.4	2.2	.7	9.2	6.3	.8	17	3.00	<.010
OCT																
30...	1100	7.02	77	6.3	7.1	8.0	6.8	1.4	2.2	.7	8.9	6.0	.7	18	3.25	.010
DEC																
01...	1300	6.88	65	6.4	7.1	--	6.2	1.4	2.1	.8	11	7.4	.7	17	2.20	.010
JAN , 1981																
05...	1200	7.32	69	6.0	7.3	--	7.3	1.6	2.1	.7	9.3	6.9	.7	15	2.57	<.010
FEB																
06...	1300	7.21	72	5.8	7.5	--	7.3	1.5	2.1	.7	10	6.0	.8	15	3.42	<.010
MAR																
02...	1400	5.32	64	6.1	7.5	5.0	7.0	1.5	2.1	.7	9.4	6.0	.8	19	3.40	<.010
19...	1600	6.50	76	6.5	7.4	--	6.9	1.6	2.1	.8	11	6.8	.9	18	2.73	.040
30...	1400	6.33	68	6.1	7.2	6.0	6.8	1.5	2.1	.7	10	6.5	.7	16	2.92	<.010
APR																
27...	1100	5.72	65	6.1	7.1	5.0	6.8	1.6	2.2	.8	11	7.1	.7	16	2.94	<.010
JUN																
03...	1300	6.42	70	5.6	7.1	6.5	6.7	1.6	2.2	.7	9.3	6.7	.7	18	2.99	.010
29...	1100	6.72	68	6.1	7.1	6.5	6.9	1.6	2.2	.6	10	6.2	.7	18	3.24	.010
JUL																
28...	1100	7.19	66	6.1	7.2	9.0	7.1	1.6	2.2	.7	9.8	6.1	.7	16	3.18	<.010
AUG																
26...	1200	7.16	70	5.4	7.2	8.0	7.1	1.6	2.3	.9	10	6.2	.7	17	3.23	<.010

Table 2.--Ground-water level and quality--Continued

B-5. 434612074361101 - SAGAMORE LAKE - Well SG50

WATER QUALITY

Date	Time	Depth below land surface (water level, in feet)	Specific conductance (mhos/ at 25° C)	pH (field)	pH (lab)	Temperature (° C)	Calcium dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrate dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)
OCT , 1981																
05...	1800	6.40	70	6.9	--	--	--	--	--	--	--	--	--	--	--	--
NOV																
02...	1400	5.58	80	6.1	7.2	8.5	7.6	1.4	1.9	0.9	11	6.3	1.6	17	3.60	0.050
DEC																
01...	1100	5.99	81	5.8	--	7.0	--	--	--	--	--	--	--	--	--	--
JAN , 1982																
04...	1300	6.81	79	5.3	--	4.5	--	--	--	--	--	--	--	--	--	--

Table 2.--Ground-water level and quality--Continued

B-6. 434612074361701 - Sagamore Lake - Well SG51

WATER LEVELS

LOCATION.--Lat 43°46'12", long 74°36'17", Hamilton County, Hydrologic Unit 04150305, 2,100 ft (640 m) east from the east end of Sagamore Lake and 4.1 mi (6.6 km) southeast of Raquette Lake.
Owner: State of New York.

AQUIFER.--Water table in sand of Wisconsinan age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 1.25 in. (3.17 cm), depth 17.3 ft (5.27 m), polyvinylchloride (PVC) casing to 15.5 ft (4.72 m), top of PVC screen at 15.5 ft (4.72 m), backfilled with original materials.

DATUM.--Elevation of land-surface datum was 20.60 ft (6.28 m) above 0.00-ft mark of Lost Brook staff gage; approximate altitude, 1,927 ft (586 m). Measuring point: inner edge of well head, 4.90 ft (1.49 m) above land surface.

PERIOD OF RECORD.--December 14, 1979, to January 4, 1982.

EXTREMES.--Highest water level, 4.33 ft (1.32 m) below land-sruface datum, March 2, 1981; lowest, 7.25 ft (2.21 m) below land-surface datum, March 13, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
14DEC1979	5.68	13JUN1980	5.27	19MAR1981	6.35
26DEC1979	6.07	02JUL1980	6.26	30MAR1981	6.27
07JAN1980	6.33	17JUL1980	6.69	27APR1981	5.68
23JAN1980	6.40	14AUG1980	6.60	01JUN1981	6.21
12FEB1980	6.95	26AUG1980	6.96	03JUN1981	6.45
26FEB1980	7.18	10SEP1980	7.00	29JUN1981	6.47
13MAR1980	7.25	29SEP1980	7.09	28JUL1981	6.69
26MAR1980	5.50	30OCT1980	6.25	26AUG1981	6.53
09APR1980	5.09	01DEC1980	6.35	05OCT1981	5.88
26APR1980	5.54	05JAN1981	6.78	02NOV1981	4.46
06MAY1980	5.68	06FEB1981	6.89	01DEC1981	6.04
30MAY1980	5.50	02MAR1981	4.33	04JAN1982	6.74

Table 2.--Ground-water level and quality--Continued

B-6. 434612074361701 - SAGAMORE LAKE - Well SG51

WATER QUALITY

Date	Time	Depth below land surface (water level, in feet)	Specific conductance (mhos/ at 25° C)	pH (field)	pH (lab)	Temperature (° C)	Calcium dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrate dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)
JAN , 1980																
07...	1300	6.33	58	6.2	6.2	--	5.2	0.9	1.5	0.9	--	8.6	0.6	12	1.67	0.010
FEB																
12...	1400	6.95	48	6.2	--	--	--	--	--	--	--	--	--	--	--	--
26...	1100	7.18	51	6.8	6.7	--	5.3	.9	1.6	.9	4.2	10	.7	12	1.40	<.010
MAR																
13...	1300	7.25	50	5.8	6.9	--	4.8	.9	1.5	.8	4.9	10	.6	12	1.13	.010
26...	1400	5.50	50	5.9	6.8	--	4.8	.9	1.5	.9	4.4	9.7	.6	12	1.14	.010
APR																
09...	1200	5.09	48	5.9	7.0	--	4.7	.9	1.4	.8	5.1	10	.5	11	.98	.010
26...	0900	5.54	50	5.9	6.6	--	5.0	.9	1.4	.8	2.8	9.3	.5	13	1.35	.010
MAY																
06...	0900	5.68	51	5.8	6.9	--	5.0	.9	1.4	.8	4.9	9.1	.5	12	1.65	.010
30...	1100	5.50	54	6.2	6.8	--	5.4	1.0	1.6	1.0	5.1	8.5	.7	11	1.76	<.010
JUN																
13...	1300	5.27	53	6.4	6.9	--	5.4	.9	1.4	1.0	5.2	8.9	.9	13	1.55	.010
JUL																
02...	1000	6.26	54	5.9	7.1	--	5.2	1.0	1.5	.9	4.5	9.1	.7	13	1.72	.010
17...	1100	6.69	55	5.8	7.0	--	5.4	1.0	1.6	.9	4.7	8.6	.7	8.1	1.86	.030
AUG																
14...	1200	6.60	57	5.6	6.1	--	5.4	1.0	1.7	1.1	2.6	8.9	.9	11	2.22	.050
26...	1700	6.96	53	6.0	6.8	--	5.2	.9	1.6	1.0	4.2	9.2	.7	12	1.68	.030
SEP																
10...	1300	7.00	50	5.0	7.0	--	5.1	.9	1.6	.9	4.4	9.3	.6	13	1.41	.020
29...	1200	7.09	61	6.0	6.7	--	5.1	.9	1.6	.9	4.5	10	.6	12	1.28	<.010
OCT																
30...	1100	6.25	55	6.0	6.8	7.5	5.0	.9	1.6	.9	4.5	9.7	.6	12	1.27	<.010
DEC																
01...	1300	6.35	53	5.9	6.7	7.5	5.1	.9	1.6	.9	4.8	9.7	.6	12	1.51	.010
JAN , 1981																
05...	1200	6.78	54	5.9	6.9	--	5.2	1.0	1.6	.9	3.5	8.9	.6	11	1.35	<.010
FEB																
06...	1100	6.89	54	5.9	7.2	--	5.1	.9	1.6	.9	5.1	9.2	.6	12	1.47	<.010
MAR																
02...	1400	4.33	47	5.8	7.1	6.0	5.1	.9	1.6	.9	4.3	7.9	.6	12	1.35	.010
19...	1700	6.35	55	6.1	7.0	--	5.2	.9	1.6	.9	4.4	9.9	.6	11	1.57	.010
30...	1300	6.27	53	6.1	6.8	6.0	5.3	.9	1.5	.9	4.3	8.9	.5	11	1.60	.010
APR																
27...	1100	5.68	60	6.5	6.7	5.0	5.3	.9	1.5	1.0	4.6	8.7	.6	11	1.67	.010
JUN																
03...	1300	6.45	52	5.6	6.8	6.5	5.2	.9	1.4	.8	3.8	9.1	.5	11	1.61	.010
29...	1100	6.47	52	6.6	6.8	6.0	5.1	.9	1.4	.8	4.4	8.9	.5	12	1.59	<.010
JUL																
28...	1100	6.69	50	5.8	6.9	6.5	5.1	.9	1.5	1.1	4.9	9.6	.6	12	1.40	<.010
AUG																
26...	1200	6.53	50	6.3	6.8	7.5	5.0	.9	1.5	.9	4.5	9.8	.6	12	1.30	<.010

Table 2.--Ground-water level and quality--Continued

B-6. 434612074361701 - SAGAMORE LAKE - Well SG51--Continued

WATER QUALITY

Date	Time	Depth below land surface (water level, in feet)	Specific conductance (mhos/ at 25° C)	pH (field)	pH (lab)	Temperature (° C)	Calcium dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrate dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)
OCT , 1981																
05...	1800	5.88	51	6.7	—	--	--	--	--	--	--	--	--	—	--	--
NOV																
02...	1400	4.46	51	5.8	6.8	8.0	5.0	0.9	1.5	1.0	4.7	9.4	0.7	13	1.49	0.010
DEC																
01...	1100	6.04	52	5.4	—	6.5	--	--	--	--	--	--	--	--	--	--
JAN , 1982																
04...	1300	6.74	55	5.3	—	6.0	--	--	--	--	--	--	--	--	--	--

Table 2.--Ground-water level and quality--Continued

C-1. 435216075572201 - Woods Lake - Well WG10

WATER LEVELS

LOCATION.--Lat 43°52'16", long 75°57'22", Herkimer County, Hydrologic Unit 04150101, 500 ft (150 m) north midway along the northwest shore of Woods Lake and 4.0 mi (6.4 km) northwest of Big Moose.
Owner: International Paper Company.

AQUIFER.--Water table in sandy till of late Wisconsinan age.

GAGE.--Battery-driven graphic recorder attached to a small-diameter-float mechanism.

WELL CHARACTERISTICS.--Hand-augered observation well, diameter 1.25 in. (3.17 cm), depth 5.8 ft (1.77 m), polyvinylchloride (PVC) casing to 4.2 ft, top of PVC screen at 4.2 ft (1.28 m), bentonite seal in annulus from 1.8 ft (0.55 m) to 2.6 ft (0.79 m), backfilled with original materials.

DATUM.--Elevation of land-surface datum 29.10 ft (8.87 m) above 0.00-ft mark of Woods Lake staff gage; approximate altitude, 2,018 ft (615 m). Measuring point: chisel mark at junction of shelter table and top of well, 3.90 ft (1.19 m) above land surface.

PERIOD OF RECORD.--November 14, 1979, to January 6, 1982.

EXTREMES.--Highest water level 0.63 ft (0.19 m) below land-surface datum, April 25, 1980; lowest, 4.12 ft (1.25 m) below land-surface datum, September 26, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL, IN FEET), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980 READING AT 1200 HRS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	1.86	2.32	2.94	3.55
2	---	---	---	---	---	---	---	---	1.89	2.32	2.95	3.55
3	---	---	---	---	---	---	---	---	1.83	2.37	2.95	3.47
4	---	---	---	---	---	---	---	---	1.84	2.42	3.01	3.48
5	---	---	---	---	---	---	---	1.04	1.89	2.42	3.03	3.51
6	---	---	---	---	---	---	---	---	1.92	2.47	3.06	3.55
7	---	---	---	---	---	---	---	---	1.91	2.51	3.06	3.58
8	---	---	---	---	---	---	---	1.28	1.88	2.48	3.06	3.60
9	---	---	---	1.63	---	---	---	1.28	1.82	2.55	3.09	3.62
10	---	---	---	---	---	---	---	1.31	1.84	2.59	3.11	3.65
11	---	---	---	---	---	---	.75	1.32	1.85	2.61	3.11	3.66
12	---	---	---	---	---	3.23	---	1.38	1.86	2.62	3.11	3.68
13	---	---	.89	---	---	---	---	1.38	1.88	2.65	3.12	3.73
14	---	1.59	---	---	2.43	---	---	1.42	1.89	2.73	3.12	3.76
15	---	---	---	---	---	---	---	1.47	1.87	2.73	3.13	3.79
16	---	---	---	---	---	---	---	1.51	1.87	2.62	3.13	3.82
17	---	---	---	---	---	---	---	1.53	1.88	2.73	3.14	3.85
18	---	---	---	---	---	---	---	1.53	1.92	2.79	3.16	3.58
19	---	---	---	---	---	---	---	1.52	1.93	2.81	3.18	3.92
20	---	---	---	---	---	---	---	1.54	1.95	2.87	3.18	3.96
21	---	---	---	---	---	---	---	1.56	1.96	2.67	3.27	3.99
22	---	---	---	1.74	---	---	---	1.58	1.99	2.31	3.29	4.03
23	---	---	---	---	---	---	---	1.61	2.08	2.56	3.36	4.06
24	---	---	---	---	---	---	---	1.68	2.11	2.70	3.38	4.10
25	---	---	---	---	---	2.53	.63	1.72	2.16	2.80	3.39	4.11
26	---	---	---	---	3.08	---	---	1.76	2.18	2.81	3.43	4.12
27	---	---	1.30	---	2.87	---	---	1.83	2.18	2.82	3.43	3.87
28	---	1.05	---	---	---	---	---	1.87	2.29	2.82	3.46	3.74
29	---	---	---	---	---	---	---	1.93	2.30	2.80	3.49	3.74
30	---	---	---	---	---	---	---	1.96	2.30	2.82	3.52	3.74
31	---	---	---	---	---	---	---	1.99	---	2.95	3.55	---
MEAN	---	---	---	---	---	---	---	---	1.97	2.63	3.20	3.76
LOWEST	---	---	---	---	---	---	---	---	2.30	2.95	3.55	4.12
HIGHEST	---	---	---	---	---	---	---	---	1.82	2.31	2.94	3.47

Table 2.--Ground-water level and quality--Continued

C-1. 435216075572201 - Woods Lake - Well WG10--Continued

DEPTH BELOW LAND SURFACE (WATER LEVEL, IN FEET), WATER YEAR OCTOBER 1980 TO DECEMBER 1981 READING AT 1200 HRS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.74	2.75	---	1.76	2.83	0.90	---	1.15	1.92	2.26	2.64	2.18
2	3.74	2.73	---	1.81	---	.90	1.13	1.19	1.94	2.27	2.67	2.17
3	3.74	2.69	---	1.87	---	.95	1.14	1.23	1.89	2.28	2.68	2.08
4	3.74	2.55	1.37	1.92	2.92	.94	1.11	1.28	1.89	2.28	2.70	2.20
5	3.74	2.16	1.33	1.97	2.98	.94	1.02	1.31	1.96	2.29	2.68	2.23
6	3.74	---	1.33	2.03	3.00	1.00	1.01	1.33	1.84	2.23	2.70	2.28
7	3.74	---	1.31	2.08	3.03	1.09	1.02	1.37	1.97	2.32	2.72	2.31
8	3.74	---	1.15	2.13	3.03	1.13	1.03	1.41	2.03	2.35	2.66	2.31
9	3.74	---	1.09	2.13	3.08	1.16	1.01	1.44	2.00	2.36	2.48	2.18
10	3.74	---	1.08	2.16	3.09	1.19	1.03	1.47	2.04	2.39	2.44	2.25
11	3.75	---	1.08	2.18	2.49	1.24	.98	1.47	2.09	2.44	---	2.07
12	3.76	---	1.02	2.23	2.74	1.27	1.02	1.42	2.15	2.47	2.24	2.17
13	3.76	---	1.04	2.27	2.87	1.30	1.04	1.47	2.17	2.47	---	2.21
14	3.76	---	1.08	2.30	2.91	1.37	.97	1.52	2.18	2.47	---	2.24
15	3.77	---	1.10	2.33	2.93	1.39	1.08	1.55	2.10	2.51	2.26	2.27
16	3.77	---	1.16	2.36	2.94	1.43	1.08	1.50	2.19	2.56	---	2.29
17	3.77	---	1.20	2.39	2.92	1.44	1.09	1.52	2.05	2.60	---	2.31
18	3.75	---	1.23	2.42	2.82	1.49	.92	1.55	2.11	2.61	---	2.32
19	3.75	---	1.26	2.45	2.49	1.51	1.00	1.58	2.20	2.66	---	2.33
20	3.75	---	1.29	2.47	2.04	1.59	1.00	1.63	2.20	2.64	---	2.34
21	3.75	---	1.33	2.50	1.84	1.67	1.02	1.66	2.21	2.24	---	2.37
22	3.66	---	1.36	2.53	1.53	1.73	1.03	1.68	2.11	2.35	---	2.04
23	3.67	---	1.40	2.56	1.23	1.75	1.03	1.72	2.09	2.47	---	2.24
24	3.67	---	1.44	2.59	.99	1.78	.96	1.72	2.17	2.54	---	2.12
25	3.60	---	1.47	2.62	.97	1.82	1.02	1.75	2.16	2.56	---	2.18
26	2.87	---	1.50	2.65	.97	1.86	1.06	1.77	2.15	2.58	---	2.19
27	2.97	---	1.53	2.68	.93	1.84	1.09	1.79	2.18	2.61	---	2.16
28	3.01	---	1.54	2.71	.86	1.90	1.12	1.82	2.22	2.60	2.18	2.06
29	3.00	---	1.60	2.74	---	1.69	1.15	1.84	2.24	2.36	2.15	2.07
30	2.91	---	1.65	2.77	---	1.62	---	1.87	2.27	2.59	2.16	2.07
31	2.84	---	1.71	2.80	---	1.33	---	1.89	---	2.62	2.17	---
MEAN	3.58	---	---	2.34	---	1.39	---	1.55	2.09	2.45	---	2.21
LOWEST	3.77	---	---	2.80	---	1.90	---	1.89	2.27	2.66	---	2.37
HIGHEST	2.84	---	---	1.76	---	.90	---	1.15	1.84	2.23	---	2.04

Table 2.--Ground-water level and quality--Continued

C-1. 435216075572201 - Woods Lake - Well WG10--Continued

DEPTH BELOW LAND SURFACE (WATER LEVEL, IN FEET), WATER YEAR OCTOBER 1981 TO JANUARY 1982 READING AT 1200 HRS

DAY	OCT	NOV	DEC	JAN
1	2.02	0.68	1.51	---
2	1.92	.68	1.55	---
3	1.89	.70	1.58	---
4	1.88	.70	1.70	---
5	1.88	.71	1.72	---
6	1.85	.67	1.74	2.38
7	---	.75	1.75	---
8	---	.84	1.76	---
9	---	.88	---	---
10	1.62	.92	---	---
11	1.63	.94	---	---
12	1.61	1.01	---	---
13	1.60	1.06	---	---
14	1.59	1.10	1.96	---
15	1.61	1.11	1.97	---
16	1.60	1.13	2.02	---
17	1.60	1.17	2.05	---
18	1.61	1.20	2.07	---
19	1.50	1.21	2.10	---
20	1.58	1.16	2.15	---
21	1.57	1.21	2.18	---
22	1.57	1.29	2.17	---
23	1.58	1.34	2.08	---
24	1.50	1.38	2.22	---
25	1.53	1.41	---	---
26	1.53	1.44	---	---
27	1.13	1.38	---	---
28	.75	1.42	2.35	---
29	.69	1.47	---	---
30	.68	1.48	---	---
31	.68	---	2.44	---
MEAN	---	1.08	---	---
LOWEST	---	1.48	---	---
HIGHEST	---	.67	---	---

Table 2.--Ground-water level and quality--Continued

C-1. 435216075572201 - WOODS LAKE - Well WG10

WATER QUALITY

Date	Time	Depth below land surface (water level, in feet)	Specific conductance (mhos/ at 25° C)	pH (field)	pH (lab)	Temperature (° C)	Calcium dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrate dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)
DEC , 1979																
27...	1500	1.30	--	--	--	--	4.4	0.6	--	0.8	--	8.2	--	--	1.20	0.010
JAN , 1980																
09...	1100	1.63	39	--	6.1	--	3.8	.6	1.8	.7	--	5.2	.3	6.5	1.67	<.010
FEB																
14...	1200	2.43	42	6.1	6.6	--	3.7	.6	1.7	.7	2.8	4.7	.3	11	1.60	.010
27...	1000	2.87	40	6.1	6.8	--	--	--	--	--	4.3	--	--	--	--	--
MAR																
12...	1000	3.23	42	6.1	6.8	--	3.7	.6	1.7	.7	4.3	5.7	.4	12	1.55	.010
25...	1400	2.53	39	5.9	6.6	--	3.4	.5	1.8	.6	3.7	6.4	.4	9.8	1.34	.010
APR																
11...	1200	0.75	38	5.8	6.8	--	3.6	.6	--	--	4.5	5.7	.3	9.5	1.43	<.010
25...	1200	0.63	39	6.0	6.7	--	3.6	.6	1.8	.7	4.1	5.6	.3	9.9	1.42	<.010
MAY																
05...	1300	1.04	41	5.9	6.8	--	3.8	.6	1.7	.6	6.0	5.2	.3	12	1.47	.010
28...	1200	1.87	34	5.5	6.9	--	3.6	.6	1.5	.7	4.1	4.9	.3	10	1.45	.260
JUN																
11...	1100	1.85	39	6.0	6.9	--	3.8	.6	1.6	.8	4.8	5.5	.4	8.4	.01	5.36
JUL																
03...	1400	2.37	43	5.9	6.9	--	3.7	.6	1.7	.9	4.3	5.8	.5	11	1.66	.030
15...	0900	2.73	43	5.8	7.0	--	3.7	.6	1.8	.9	4.4	6.0	.5	5.8	1.60	.040
AUG																
01...	0900	2.95	56	4.8	6.8	--	3.6	.6	1.7	.9	--	6.2	.3	12	1.58	.010
13...	0900	3.11	49	5.8	6.8	--	3.7	.6	1.7	.8	2.9	5.8	.3	10	1.55	.010
26...	1200	3.43	41	5.8	6.7	--	3.7	.6	2.1	.9	4.0	6.0	.3	11	1.54	.020
SEP																
12...	1100	3.68	39	5.8	6.6	--	3.7	.6	1.9	.8	3.7	5.2	.3	13	1.68	.020
29...	1000	3.74	50	5.8	6.5	--	3.5	.5	1.8	1.0	3.4	5.6	.6	11	1.53	.030
OCT																
29...	1300	3.00	30	5.5	6.7	8.0	3.6	.5	1.8	.7	3.7	5.7	.3	12	1.46	<.010
DEC																
04...	1300	1.37	38	5.9	--	--	--	--	--	--	--	--	--	--	--	--
JAN , 1981																
08...	1500	2.13	47	6.3	7.0	--	3.5	.5	1.7	.6	4.2	5.1	.3	6.1	1.27	.030
MAR																
03...	1300	0.95	32	5.8	7.1	3.0	3.5	.6	1.7	.7	4.5	5.7	.3	13	1.26	<.010
17...	1000	1.44	39	6.3	--	--	--	--	--	--	--	--	--	--	--	--
31...	1300	1.33	31	6.2	6.8	4.5	3.3	.5	1.5	.7	4.3	4.8	.3	11	1.28	<.010
APR																
29...	1000	1.15	38	6.5	6.8	5.5	3.8	.6	1.8	1.0	5.5	5.1	.4	13	1.28	.010
JUN																
02...	1200	1.94	38	5.8	6.8	9.5	3.5	.6	1.6	.7	4.5	5.2	.4	14	1.30	.010
30...	1100	2.27	36	6.3	6.8	9.0	3.7	.6	1.7	.8	4.5	6.0	.4	12	1.64	.010
JUL																
30...	1000	2.62	38	5.8	6.7	10.0	3.5	.5	1.7	.8	3.8	6.1	.4	12	1.24	<.010
AUG																
28...	1200	2.18	39	5.3	6.8	11.0	3.4	.5	1.8	.8	4.2	5.8	.4	14	1.29	<.010

Table 2.--Ground-water level and quality--Continued

C-1. 435216075572201 - WOODS LAKE - Well WG10--Continued

WATER QUALITY

Date	Time	Depth below land surface (water level, in feet)	Specific conductance (mhos/ at 25° C)	pH (field)	pH (lab)	Temperature (° C)	Calcium dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrate dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)
OCT , 1981																
02...	1200	1.92	38	4.5	6.8	8.5	3.4	0.5	1.8	0.8	4.2	5.6	0.4	12	1.38	<0.010
NOV																
04...	1100	0.70	36	5.9	6.9	8.5	3.5	.6	1.9	.8	5.6	5.4	.3	10	1.24	.010
DEC																
03...	0900	1.58	40	6.5	—	6.0	—	--	--	--	--	--	--	--	--	—
JAN , 1982																
06...	1200	2.38	41	5.0	—	5.0	—	--	--	--	--	--	--	--	--	—

Table 2.--Ground-water level and quality--Continued

C-2. 435219075572201 - Woods Lake - Well WG30

WATER LEVELS

LOCATION.--Lat 43°52'19", long 75°57'22", Herkimer County, Hydrologic Unit 04150101, 760 ft (230 m) east from midway along the northwest shore of Woods Lake and 4.3 mi (6.9 km) northwest of Big Moose.
Owner: International Paper Company.

AQUIFER.--Water table in sandy till of late Wisconsinan Age.

GAGE.--Battery-driven graphic recorder attached to a small-diameter-float mechanism.

WELL CHARACTERISTICS.--Hand-augered observation well, diameter 1.25 in. (3.17 cm), depth 6.2 ft (1.89 m), galvanized-steel casing to 4.8 ft (1.46 m), top of steel screen at 4.8 ft (1.46 m), bentonite seal in annulus from 2.9 to 3.7 ft (0.88 to 1.13 m), backfilled with original materials.

DATUM.--Elevation of land-surface datum 34.28 ft (10.45 m) above 0.00-ft mark of Woods Lake staff gage; approximate altitude, 2,023 ft (617 m). Measuring point: chisel mark at junction of shelter table and well head, 4.08 ft (1.24 m) above land surface.

PERIOD OF RECORD.--November 14, 1979, to December 28, 1981.

EXTREMES.--Highest water level 1.18 ft (0.36 m) below land-surface datum, October 28, 1981; lowest, 4.71 ft (1.4 m) below land-surface datum, September 12, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL, IN FEET), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980 READING AT 1200 HRS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	3.25	3.39	---
2	---	---	---	---	---	---	---	---	---	3.35	---	---
3	---	---	---	---	---	---	---	---	---	3.44	---	---
4	---	---	---	---	---	---	---	---	---	3.54	---	---
5	---	---	---	---	---	---	---	1.82	---	3.57	---	---
6	---	---	---	---	---	---	---	---	---	3.54	---	---
7	---	---	---	---	---	---	---	1.87	---	3.64	---	---
8	---	---	---	---	---	---	---	1.90	---	3.67	---	---
9	---	---	---	2.59	---	---	---	1.97	---	3.64	---	---
10	---	---	---	---	---	---	---	2.03	2.25	3.62	---	---
11	---	---	---	---	---	---	1.51	2.09	2.21	3.74	---	---
12	---	---	---	---	---	4.17	---	2.15	2.35	3.76	---	4.71
13	---	---	1.56	---	---	---	---	2.16	2.55	3.81	3.91	---
14	---	2.45	---	---	3.49	---	---	2.16	2.67	3.84	---	---
15	---	---	---	---	---	---	---	2.20	2.74	3.83	---	---
16	---	---	---	---	---	---	---	2.25	2.74	---	---	---
17	---	---	---	---	---	---	---	2.29	2.79	---	---	---
18	---	---	---	---	---	---	---	2.32	2.88	---	---	4.25
19	---	---	---	---	---	---	---	2.01	2.94	---	---	4.19
20	---	---	---	---	---	---	---	2.03	2.94	---	---	4.19
21	---	---	---	---	---	---	---	2.16	2.84	---	---	4.19
22	---	---	---	2.61	---	---	---	2.26	2.89	---	---	4.19
23	---	---	---	---	---	---	---	2.35	2.98	---	---	4.19
24	---	---	---	---	---	---	---	2.43	3.04	---	---	4.19
25	---	---	---	---	---	2.34	1.50	2.56	3.14	---	---	4.19
26	---	---	---	---	---	---	---	2.69	3.23	---	4.24	4.19
27	---	---	---	---	3.74	---	---	2.77	3.29	---	---	3.97
28	---	---	---	---	---	---	---	2.78	3.33	---	---	3.79
29	---	1.83	---	---	---	---	---	---	3.34	---	---	3.79
30	---	---	---	---	---	---	---	---	3.34	---	---	3.94
31	---	---	---	---	---	---	---	---	---	---	---	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	---
LOWEST	---	---	---	---	---	---	---	---	---	---	---	---
HIGHEST	---	---	---	---	---	---	---	---	---	---	---	---

Table 2.--Ground-water level and quality--Continued

C-2. 435219075572201 - Woods Lake - Well WG30--Continued

DEPTH BELOW LAND SURFACE (WATER LEVEL, IN FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 READING AT 1200 HRS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.14	2.69	2.23	2.70	3.63	1.85	1.48	1.66	2.93	3.16	3.15	3.24
2	4.23	2.77	2.13	2.75	2.88	1.86	1.37	1.81	3.02	3.23	3.29	3.24
3	4.23	2.82	---	2.77	2.88	1.86	1.60	1.95	---	3.31	3.55	3.23
4	4.23	2.79	1.86	2.81	3.04	1.85	1.67	2.01	---	3.37	3.65	3.17
5	4.23	1.81	2.03	2.87	3.16	1.84	1.66	2.08	---	3.45	3.69	3.16
6	4.23	2.13	2.19	2.90	3.23	1.87	1.66	2.14	---	3.24	3.72	3.21
7	4.23	1.94	2.28	2.92	3.33	1.93	1.72	2.20	---	3.29	3.77	3.31
8	4.23	1.60	2.24	2.99	3.37	1.97	1.74	2.26	---	3.45	3.78	3.29
9	4.23	1.74	1.59	3.01	3.55	1.98	1.67	2.30	---	3.56	3.24	2.63
10	4.23	1.66	1.76	3.03	3.59	1.99	1.64	2.32	---	3.82	2.61	2.65
11	4.23	1.84	1.88	3.04	3.03	2.00	1.52	2.33	---	3.66	2.50	2.16
12	4.23	2.03	1.97	3.08	2.61	2.01	1.60	2.06	---	3.73	2.20	2.37
13	4.23	2.12	2.06	3.11	2.61	2.04	1.67	2.04	---	3.79	2.44	2.54
14	4.23	2.03	2.11	3.14	2.90	2.05	1.69	2.19	---	3.84	2.57	2.65
15	4.23	2.06	2.23	3.17	3.00	2.10	1.77	2.27	---	3.88	2.81	2.73
16	4.23	2.14	2.23	3.19	3.08	2.11	1.78	1.84	---	3.93	1.96	2.98
17	4.23	2.18	2.31	3.21	3.13	2.14	1.80	1.78	---	3.97	2.09	3.13
18	4.23	2.24	2.34	3.23	3.04	2.16	1.45	2.02	---	4.01	2.43	3.15
19	4.23	2.28	2.39	3.26	2.63	2.22	1.56	2.20	---	4.02	2.70	3.19
20	4.23	2.31	2.42	3.31	1.83	2.26	1.66	2.33	---	4.02	2.95	3.25
21	4.23	2.30	2.45	3.33	1.58	2.35	1.73	2.37	---	2.74	3.04	3.31
22	4.23	2.36	2.48	3.33	1.34	2.37	1.84	2.41	---	2.41	3.11	2.78
23	4.11	2.36	2.51	3.37	1.26	2.38	1.84	2.46	---	2.84	3.16	2.50
24	4.10	2.03	2.55	3.40	1.25	2.37	1.65	2.50	---	2.99	3.22	1.90
25	4.03	1.71	2.60	3.46	1.60	2.37	1.67	1.53	---	3.10	3.26	2.10
26	2.71	1.91	2.61	3.46	1.78	2.38	1.67	2.56	---	3.17	3.27	2.28
27	2.46	2.03	2.65	3.49	1.83	2.37	1.77	2.61	---	3.29	3.28	2.40
28	2.47	2.00	2.65	3.52	1.81	2.38	1.87	2.63	---	3.39	3.27	2.21
29	2.60	1.90	2.65	3.55	---	2.18	1.60	2.73	---	2.90	3.24	2.35
30	2.64	2.13	2.64	3.58	---	1.41	1.60	1.76	3.11	2.79	3.25	2.56
31	2.70	---	2.59	3.60	---	1.31	---	1.85	---	2.97	3.25	---
MEAN	3.90	2.13	---	3.18	2.61	2.06	1.66	2.17	---	3.40	3.05	2.79
LOWEST	4.23	2.82	---	3.60	3.63	2.38	1.87	2.73	---	4.02	3.78	3.31
HIGHEST	2.46	1.60	---	2.70	1.25	1.31	1.37	1.53	---	2.41	1.96	1.90

Table 2.--Ground-water level and quality--Continued

C-2. 435219075572201 - Woods Lake - Well WG30--Continued

DEPTH BELOW LAND SURFACE (WATER LEVEL, IN FEET), WATER YEAR OCTOBER 1981 TO DECEMBER 1981 READING AT 1200 HRS

DAY	OCT	NOV	DEC
1	2.56	1.66	2.32
2	2.56	1.66	2.37
3	2.48	1.70	2.46
4	2.39	1.73	2.61
5	2.44	1.73	2.66
6	---	1.56	2.69
7	---	1.60	2.78
8	---	1.71	2.83
9	---	1.77	2.90
10	---	1.81	2.93
11	2.19	1.83	3.02
12	2.28	1.90	3.08
13	2.35	1.95	3.10
14	2.40	1.97	3.12
15	2.41	1.97	3.13
16	2.46	1.97	3.16
17	2.49	1.96	3.19
18	2.49	1.95	3.20
19	1.96	1.74	3.23
20	2.08	1.63	3.27
21	2.09	1.64	3.29
22	2.15	1.82	3.30
23	1.96	1.95	3.16
24	1.90	1.99	---
25	2.08	2.05	---
26	2.03	2.09	---
27	1.20	2.20	---
28	1.18	2.18	3.35
29	1.47	2.23	---
30	1.62	2.28	---
31	1.65	---	---
MEAN	---	1.87	---
LOWEST	---	2.28	---
HIGHEST	---	1.56	---

Table 2.--Ground-weter level and quality--Continued

C-3. 435159075572701 - Woods Lake - Well WG50

WATER LEVELS

LOCATION.--Lat 43°51'59", long 75°57'27", Herkimer County, Hydrologic Unit 04150101, 30.5 ft (9.3 m) west from the northwest end of Woods Lake and 3.7 mi (5.9 km) northwest of Big Moose.
Owner: International Paper Company.

AQUIFER.--Water table in outwash sand mixed with swamp deposits of late Wisconsinan age.

WELL CHARACTERISTICS.--Hand-augered observation well, diameter 1.25 in. (3.17 cm), depth 7.1 ft (2.2 m), galvanized-steel casing to 5.7 ft (1.74 m), top of screen at 5.7 ft (1.74 m), bentonite seal in annulus from 1.0 ft (0.3 m) to 2.0 ft (0.61 m), backfilled with original materials.

DATUM.--Elevation of land-surface datum 2.80 ft (0.85 m) above 0.00-ft mark of lake staff gage; approximate altitude, 1,992 ft (607 m). Measuring point: inner edge of well head, 4.90 ft (1.49 m) above land surface.

PERIOD OF RECORD.--November 14, 1979, to December 3, 1981.

EXTREMES.--Highest water level 0.15 ft (0.05 m) below land-surface datum, April 29, 1981; lowest, 2.01 ft (0.61 m) below land-surface datum, July 14, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
14NOV1979	0.24	31JUL1980	0.43	30JUN1981	0.67
29NOV1979	.26	12AUG1980	.45	30JUL1981	.32
25APR1980	.17	26AUG1980	.75	07AUG1981	.74
05MAY1980	.47	12SEP1980	1.24	20AUG1981	.56
27MAY1980	.50	29SEP1980	.58	28AUG1981	1.02
10JUN1980	.47	29OCT1980	.38	02OCT1981	.36
30JUN1980	1.50	29APR1981	.15	04NOV1981	.35
03JUL1980	.98	02JUN1981	.55	03DEC1981	.33
14JUL1980	2.01				

Table 2.--Ground-water level and quality--Continued

C-4. 435225075565201 - Woods Lake - Well W370

WATER LEVELS

LOCATION.--Lat 43°52'25", long 75°56'52", Herkimer County, Hydrologic Unit 04150101, 25 ft (8 m) east from the northwest end of Woods Lake and 4.0 mi (6.4 km) northwest of Big Moose.
Owner: International Paper Company.

AQUIFER.--Water table in outwash sand mixed with swamp deposits.

WELL CHARACTERISTICS.--Hand-augered observation well, diameter 1.25 in. (3.17 cm), depth 7.7 ft (2.3 m), polyvinylchloride (PVC) casing to 6.1 ft (1.8 m), top of PVC screen at 6.1 ft (1.8 m), bentonite seal in annulus from 4.1 to 5.0 ft (1.25 to 1.5 m), backfilled with original materials.

DATUM.--Elevation of land-surface datum 1.94 ft (0.59 m) above 0.00-ft mark of lake staff gage; approximate altitude, 1,991 ft (607 m). Measuring point: inner edge of well head, 3.95 ft (1.20 m) above land surface.

PERIOD OF RECORD.--November 14, 1979, to December 3, 1981.

EXTREMES.--Highest water level 0.85 ft (0.26 m) above land-surface datum, October 28, 1981; lowest, 0.76 ft (0.23 m) below land-surface datum, September 15, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
14NOV1979	0.08	26AUG1980	0.65	07AUG1981	0.05
27NOV1979	-.08	12SEP1980	.60	13AUG1981	-.33
25APR1980	.27	29SEP1980	.19	20AUG1981	-.15
05MAY1980	.31	29OCT1980	-.07	28AUG1981	.05
28MAY1980	.51	31MAR1981	-.13	15SEP1981	.76
11JUN1980	.22	29APR1981	.15	02OCT1981	-.20
03JUL1980	.46	02JUN1981	.27	28OCT1981	-.85
15JUL1980	.67	30JUN1981	-.07	04NOV1981	-.17
01AUG1980	.27	26JUL1981	.22	03DEC1981	-.21
13AUG1980	.29	30JUL1981	-.27		

Table 2.--Ground-water level and quality--Continued

C-4. 435225075565201 - WOODS LAKE - Well WG70

WATER QUALITY

Date	Time	Depth below land surface (water level, in feet)	Specific conductance (mhos/ at 25° C)	pH (field)	pH (lab)	Temperature (° C)	Calcium dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrate dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)
APR , 1980																
25...	1100	0.27	29	5.7	7.0	—	2.3	0.4	1.7	0.2	5.4	5.2	0.4	6.1	0.08	<0.010
MAY																
05...	1200	0.31	29	5.6	6.7	—	2.2	.5	1.4	.1	5.7	4.6	.4	10	.05	.010
28...	1100	0.51	27	5.6	6.8	—	2.1	.5	1.4	.1	5.0	4.2	.4	6.7	.02	.310
JUN																
11...	1000	0.22	26	6.0	7.0	—	2.0	.4	1.4	.2	5.6	4.1	.4	4.0	.01	.010
JUL																
03...	1200	0.46	30	5.2	7.1	—	2.3	.5	1.4	.1	6.1	4.8	.4	8.4	.02	.010
15...	0700	0.67	31	5.7	7.1	—	2.4	.5	1.6	.2	5.4	4.9	.4	6.2	.03	.020
AUG																
01...	0800	0.27	31	5.4	7.1	—	2.4	.5	1.6	.1	6.2	5.3	.4	5.4	.02	.010
13...	1000	0.29	30	5.4	7.1	—	4.6	.8	3.5	.6	5.1	9.3	.6	10	.02	.010
26...	1000	0.65	42	5.6	6.9	—	2.6	.5	1.6	.2	6.1	5.5	.5	12	.05	.030
SEP																
12...	0900	0.60	29	4.3	6.8	—	2.5	.5	1.6	.1	6.1	5.2	.4	9.8	.03	.020
29...	0900	0.19	35	5.6	6.8	—	2.4	.5	1.6	.2	5.4	5.0	.4	12	.07	.010
OCT																
29...	1000	-0.07	30	5.6	6.9	—	2.4	.4	1.7	.2	6.1	5.2	.4	12	.06	<.010
MAR , 1981																
31...	1300	-0.13	30	5.8	6.9	5.0	2.6	.5	1.6	.2	5.2	5.5	.4	11	.07	.080
APR																
29...	0900	0.15	29	5.8	6.9	6.0	2.5	.5	1.6	.2	5.4	5.3	.4	12	.06	.010
JUN																
02...	0900	0.27	—	5.4	6.9	9.0	2.4	.5	1.6	.1	4.6	5.3	.4	11	.06	.010
30...	0900	-0.07	28	5.5	6.8	9.0	2.5	.5	1.6	.2	5.1	5.6	.4	12	.09	.010
JUL																
26...	1200	0.22	—	4.5	—	7.0	—	—	—	—	—	—	—	—	—	—
30...	0700	-0.27	30	5.3	—	8.5	—	—	—	—	—	—	—	—	—	—
AUG																
28...	1400	0.05	31	5.7	6.8	10.0	2.3	.5	1.7	.2	5.3	5.0	.7	12	.06	<.010
OCT																
02...	1000	-0.20	25	4.3	6.9	9.0	2.1	.4	1.6	.2	5.1	4.1	.6	11	.06	<.010
NOV																
04...	0900	-0.17	25	5.3	7.0	8.0	2.0	.4	1.7	.2	5.0	4.2	.6	12	.12	.010
DEC																
03...	1000	-0.21	26	6.4	—	—	—	—	—	—	—	—	—	—	—	—

Table 2.--Ground-water level and quality--Continued

C-5. 435229075564201 - Woods Lake - Well WG75

WATER LEVELS

LOCATION.--Lat 43°52'29", long 75°56'42", Herkimer County, Hydrologic Unit 04150101, 1,000 ft (305 m) east from the northeast end of Woods Lake and 4.0 mi (6.4 km) northeast of Big Moose.
Owner: International Paper Company.

AQUIFER.--Water table in sand of late Wisconsinan age.

WELL CHARACTERISTICS.--Hand-augered observation well, diameter 1.25 in. (3.17 cm), depth 9.8 ft (3.0 m), polyvinylchloride (PVC) casing to 8.2 ft (2.5 m), top of PVC screen at 9.8 ft (3.0 m), backfilled with original materials.

DATUM.--Elevation of land-surface datum 25.20 ft (7.68 m) above 0.00-ft mark of lake staff gage; approximate altitude, 2,014 ft (614 m). Measuring point: inner edge of well head, 2.00 ft (0.61 m) above land surface.

PERIOD OF RECORD.--July 27, 1981, to January 6, 1982.

EXTREMES.--Highest water level 0.42 ft (0.13 m) above land-surface datum, October 28, 1981; lowest, 1.38 ft (0.42 m) below land-surface datum, August 7, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
27JUL1981	1.07	20AUG1981	1.05	28OCT1981	-0.42
30JUL1981	.66	28AUG1981	.95	04NOV1981	.91
07AUG1981	1.38	15SEP1981	1.01	03DEC1981	1.00
13AUG1981	.67	02OCT1981	.99	06JAN1982	.58

Table 2.--Ground-water level and quality--Continued

C-5. 435229075564201 - WOODS LAKE - Well WG75

WATER QUALITY

Date	Time	Depth below land surface (water level, in feet)	Specific conductance (mhos/ at 25° C)	pH (field)	pH (lab)	Temperature (° C)	Calcium dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrate dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)
JUL , 1981																
30...	0900	0.66	34	4.6	--	--	--	--	--	--	--	--	--	--	--	--
AUG																
28...	1400	0.95	34	4.4	4.8	9.5	1.2	0.2	0.7	0.3	0.01	6.1	0.6	1.7	1.33	<0.010
OCT																
02...	1100	0.99	36	4.1	4.8	8.0	1.2	.2	.5	.2	.20	6.0	.5	1.5	1.29	.010
NOV																
04...	0900	0.91	34	4.6	4.8	8.0	1.1	.2	.6	.3	.35	6.1	.6	1.3	1.14	.010
DEC																
03...	1000	1.00	36	4.6	--	6.0	--	--	--	--	--	--	--	--	--	--
JAN , 1982																
06...	1100	0.58	34	4.0	--	4.0	--	--	--	--	--	--	--	--	--	--

Table 2.--Ground-water level and quality--Continued

C-6. 435230075570201 - Woods Lake - Well WG80

WATER LEVELS

LOCATION.--Lat 43°52'30", long 75°57'02", Herkimer County, Hydrologic Unit 04150101, 300 ft (91 m) north from the north end of Woods Lake and 4.1 mi (6.6 km) northeast of Big Moose.
Owner: International Paper Company.

AQUIFER.--Artesian water table in sand mixed with swamp deposits of Wisconsinan age.

WELL CHARACTERISTICS.--Hand-augered observation well, diameter 1.25 in. (3.17 cm), depth 9.6 ft (2.9 m), galvanized-steel casing to 8.0 ft (2.4 m), top of screen to 8.0 ft (2.4 m), bentonite seal in annulus from 2.0 to 2.5 ft (0.61 to 0.76 m), backfilled with original materials.

DATUM.--Elevation of land-surface datum 3.96 ft (1.21 m) above 0.00-ft mark of lake staff gage; approximate altitude, 1,993 ft (607 m). Measuring point: inner edge of well head, 5.30 ft (1.61 m) above land surface.

PERIOD OF RECORD.--November 14, 1979, to December 3, 1981.

EXTREMES.--Highest water level 1.51 ft (0.46 m) above land-surface datum, October 28, 1981; lowest, 0.39 ft (0.12 m) above land-surface datum, September 12, 1980.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
14NOV1979	0.96	26AUG1980	0.41	07AUG1981	0.66
25APR1980	.85	12SEP1980	.39	20AUG1981	.84
05MAY1980	.77	29SEP1980	.81	28AUG1981	.75
28MAY1980	.64	29OCT1980	1.26	15SEP1981	.99
11JUN1980	.82	31MAR1981	1.36	02OCT1981	.92
03JUL1980	.63	02JUN1981	.65	28OCT1981	1.51
15JUL1980	.44	30JUN1981	.84	04NOV1981	.94
31JUL1980	.87	30JUL'1981	.93	03DEC1981	.75
13AUG1980	.78				

Table 2.--Ground-water level and quality--Continued

C-7. 435228075570301 - Woods Lake - Well WG90

WATER LEVELS

LOCATION.--Lat 43°52'28", long 75°57'03", Herkimer County, Hydrologic Unit 04150101, 200 ft (61 m) north from the northeast end of Woods Lake and 4.1 mi (6.6 km) northeast of Big Moose.
Owner: International Paper Company.

AQUIFER.--Artesian water table in sand of Wisconsinan age overlain by swamp deposits.

WELL CHARACTERISTICS.--Hand-augered observation well, diameter 1.25 in. (3.17 cm), depth 18.2 ft (5.5 m), polyvinylchloride (PVC) casing to 16.6 ft (5.0 m), top of PVC screen at 16.6 ft (5.0 m), bentonite seal in annulus from 3.7 to 4.2 ft (1.1 to 1.3 m) and from 7.2 to 8.0 ft (2.2 to 2.4 m), backfilled with original materials.

DATUM.--Elevation of land-surface datum 1.84 ft (0.56 m) above 0.00-ft mark of lake staff gage; approximate altitude, 1,991 ft (607 m). Measuring point: inner edge of well head, 4.7 ft (1.43 m) above land surface.

PERIOD OF RECORD.--November 14, 1979, to November 4, 1981.

EXTREMES.--Highest water level 1.29 ft (0.39 m) above land-surface datum, October 28, 1981; lowest, 0.40 ft (0.12 m) above land-surface datum, July 15, 1980, and September 12, 1980.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
14NOV1979	0.92	13AUG1980	0.70	30JUN1981	0.85
29NOV1979	1.05	26AUG1980	.45	30JUL1981	.77
25APR1980	.78	12SEP1980	.40	07AUG1981	.58
05MAY1980	.74	29SEP1980	.74	20AUG1981	.75
28MAY1980	.57	29OCT1980	.80	28AUG1981	.65
11JUN1980	.78	31MAR1981	1.11	02OCT1981	.81
03JUL1980	.62	29APR1981	.82	28OCT1981	1.29
15JUL1980	.40	02JUN1981	.56	04NOV1981	.80
01AUG1980	.70				

Table 2.--Ground-water level and quality--Continued

C-7. 435228075570301 - WOODS LAKE - Well WG90

WATER QUALITY

Date	Time	Depth below land surface (water level, in feet)	Specific conductance (mhos/ at 25° C)	pH (field)	pH (lab)	Temperature (° C)	Calcium dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrate dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)
APR , 1980																
25...	1100	0.78	54	6.3	6.9	—	5.6	0.8	1.5	0.6	5.6	14	1.0	8.7	0.12	0.120
MAY																
05...	1200	0.74	42	6.2	6.8	—	3.9	.8	1.1	.5	5.6	7.2	.6	8.2	.60	.050
28...	1100	0.57	38	6.1	6.8	--	3.5	.7	1.0	.8	5.6	5.6	.6	6.6	.82	.170
JUN																
11...	1000	0.78	40	6.5	7.1	--	3.4	.6	.9	.5	6.4	5.3	.3	6.2	.80	.040
JUL																
03...	1000	0.62	39	5.9	7.1	--	3.6	.6	1.0	.5	5.9	5.8	.6	9.2	.77	.060
15...	0800	0.40	38	5.9	7.2	--	3.5	.6	1.0	.6	6.0	5.6	.4	9.1	.75	.050
AUG																
01...	0800	0.70	34	5.6	7.0	--	3.6	.6	.9	.5	5.1	5.8	.3	9.3	.78	.020
13...	1000	0.70	35	5.9	6.9	--	3.3	.6	.9	.5	4.4	6.2	.3	3.9	.78	.010
26...	1100	0.45	31	5.9	6.5	--	3.3	.5	.9	.5	3.2	7.6	.4	5.7	.53	.030
SEP																
12...	0900	0.40	34	6.0	6.8	--	3.6	.5	.9	.5	5.4	6.2	.3	9.1	.53	.030
29...	1000	0.74	42	5.8	6.6	—	3.6	.5	.9	.5	3.9	5.5	.3	8.8	1.04	.010
OCT																
29...	1100	0.80	30	6.3	6.6	7.0	3.5	.5	.9	.5	3.2	6.5	.3	8.5	.73	.010
MAR , 1981																
31...	1100	1.11	34	6.0	6.8	5.0	3.5	.5	.9	.7	4.1	6.1	.3	7.8	.49	<.010
APR																
29...	0900	0.82	36	6.3	6.9	6.0	3.6	.5	.9	.7	5.5	6.0	.4	8.5	.62	.010
JUN																
02...	1100	0.56	36	5.6	6.8	7.5	3.5	.5	.9	.5	4.8	6.0	.4	8.3	.52	.010
30...	1000	0.85	38	5.8	6.8	9.0	3.7	.5	1.2	.6	5.0	5.5	.7	8.5	1.10	.050
JUL																
30...	0800	0.77	38	5.8	6.7	9.5	3.5	.5	.9	.5	4.5	6.0	.4	8.5	.82	.010
AUG																
28...	1300	0.65	36	6.6	6.9	12.5	3.5	.5	1.4	.8	6.0	6.0	1.2	7.6	.83	.110
OCT																
02...	1100	0.81	42	5.5	6.8	—	3.5	.5	1.0	.6	5.0	6.0	.6	8.2	.79	.060
NOV																
04...	1000	0.80	36	6.5	6.9	8.5	3.5	.5	1.3	.7	5.3	6.1	.9	7.3	.75	.190
DEC																
03...	0900	--	35	6.6	--	4.0	--	--	--	--	--	--	--	--	--	--

TABLE 3

SOIL MOISTURE AND SOIL TEMPERATURE

A. Panther Lake basin:

Station	Page
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2. PH20. . .	130
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B. Sagamore Lake basin:

1. SH10. . .	136

C. Woods Lake basin:

1. WH10. . .	138
2. WH20. . .	139
3. WH30. . .	142

Table 3.--Soil moisture and soil temperature

A-1. Panther Lake - Station PH10

LOCATION.--Lat 43°41'48", long 74°55'18", Herkimer County, Hydrologic Unit 04150101, 150 ft (46 m) east of the east shore of panther Lake, 500 ft (152 m) north of the southeast end of the lake and 3.4 mi (5.4 km) southeast of Old Forge.

SOIL PROFILE.--Haplorthod Spodosol. Horizon thickness: 01 horizon, 3.5-4.3 in. (9-11 cm); 02 horizon, 1.57 in. (4 cm); A2 horizon, 1.2-2.0 in. (3-5 cm); B2 horizon, 7.1-8.7 in. (18-22 cm); C horizon, 9.8-11.8 in. (25-30 cm). Total depth of profile, 25.6 in. (65 cm).

DATUM.--Depth of tensiometer probes below land-surface datum: A probe, 7.1 in. (18 cm); B probe, 15.0 in. (38 cm); C probe, 25.6 in. (65 cm). Elevation of tensiometer gages above land-surface datum: 3.9 in. (10 cm).

PERIOD OF RECORD.--July 10, 1980, to November 6, 1981.

REMARKS.--Hand-dug soil moisture station on midslope of forested deposits of till. Three tensiometers emplaced in uphill soil profile. Station not backfilled, hole covered with plywood.

SOIL MOISTURE, IN CENTIBARS OF MOISTURE TENSION

DATE	TIME	A-PROBE	B-PROBE	C-PROBE
10JUL1980	0800	6.0	7.5	12.0
14JUL1980	1500	9.0	10.5	14.0
18JUL1980	1200	8.0	4.5	11.0
21JUL1980	1600	5.0	4.5	9.0
29JUL1980	0900	6.0	1.5	10.0
30JUL1980	1300	7.0	5.5	10.0
05AUG1980	1100	8.0	8.0	12.0
12AUG1980	0800	10.0	7.0	12.0
25AUG1980	1300	11.5	7.5	15.0
03DEC1980	--	5.0	1.5	10.0
06JAN1981	--	14.5	9.0	15.0
05FEB1981	--	7.0	7.5	13.0
04MAR1981	--	9.5	6.5	10.0
01APR1981	--	5.0	6.5	10.0
28APR1981	--	.0	13.5	1.0
02JUN1981	--	1.0	5.5	.0
01JUL1981	1000	.0	15.5	.0
29JUL1981	1300	.0	5.5	.0
06AUG1981	1500	6.0	.0	11.0
12AUG1981	1600	6.8	1.6	9.0
21AUG1981	0900	9.0	4.0	8.5
27AUG1981	1000	10.0	5.5	10.5
14SEP1981	1400	8.0	3.5	10.0
17SEP1981	1400	8.9	3.4	10.0
12OCT1981	1700	8.0	3.0	8.5
17OCT1981	1500	7.5	2.2	9.5
03NOV1981	0900	6.0	2.0	6.5
03NOV1981	1200	6.0	1.5	7.5
06NOV1981	1300	10.0	5.4	--

INTENSIVE SAMPLING, FALL 1981

DATE	TIME	A-PROBE	B-PROBE	C-PROBE	DATE	TIME	A-PROBE	B-PROBE	C-PROBE
21SEP1981	1900	6.0	5.0	4.0	01OCT1981	1600	6.5	5.5	4.0
22SEP1981	0030	6.0	5.5	4.0	01OCT1981	2200	7.0	5.5	5.0
22SEP1981	0700	.0	3.5	2.0	06OCT1981	1130	5.0	6.0	6.0
22SEP1981	1200	1.0	1.5	1.0	06OCT1981	1500	4.0	5.0	5.0
22SEP1981	1800	3.0	2.5	1.5	06OCT1981	2230	3.0	3.5	3.0
23SEP1981	0000	3.0	2.5	1.0	07OCT1981	0430	4.0	4.0	3.0
23SEP1981	0600	3.0	2.5	2.0	07OCT1981	1000	3.0	4.0	3.0
23SEP1981	1200	3.5	3.5	2.0	07OCT1981	1530	2.0	3.0	2.5
23SEP1981	1730	.0	2.5	.5	08OCT1981	0400	2.5	2.0	1.0
23SEP1981	2400	1.0	.0	.0	08OCT1981	0930	2.0	2.0	1.5
24SEP1981	0600	2.0	.5	.0	08OCT1981	1530	2.5	2.5	1.5
24SEP1981	1230	2.0	1.5	.0	09OCT1981	0330	3.0	3.0	2.0
24SEP1981	1730	2.0	1.5	1.0	09OCT1981	0930	.5	2.0	1.5
25SEP1981	0800	3.0	2.0	1.5	09OCT1981	1530	3.0	3.0	2.0
25SEP1981	1730	4.0	3.5	4.0	09OCT1981	2100	3.5	3.5	2.0
26SEP1981	1500	4.5	4.0	4.0	10OCT1981	0830	2.0	2.5	2.0
28SEP1981	1400	5.0	4.5	3.0	10OCT1981	1830	3.5	4.5	3.0
30SEP1981	2200	5.0	5.0	2.5	11OCT1981	2030	5.5	4.5	3.5

Table 3.--Soil moisture and soil temperature--Continued

A-2. Panther Lake - Station PH20

LOCATION.--Lat 43°41'59", long 74°55'02", Herkimer County, Hydrologic Unit 04150101, 50 ft (15 m) north of the south shore road of Little Moose Lake, 500 ft (152 m) east of the intersection of Panther Lake outlet and the road, and 3.2 mi (5.1 km) southeast of Old Forge.

SOIL PROFILE.--Fragiorthod Spodosol. Horizon thickness: O1 horizon, 1.2-2 in. (3-5 cm); O2 horizon, 1.6-2.7 in. (4-7 cm); A2 horizon, 2.4-3.1 in. (6-8 cm); B2 horizon, 11-14.2 in. (28-36 cm); C horizon, 6.7-9.0 in. (17-23 cm). Total depth of profile 26.4 in. (67 cm).

DATUM.--Depth of tensiometer probes below land-surface datum: A probe, 5.5 in. (14 cm); B probe, 20 in. (51 cm); C probe, 26.4 in. (67 cm). Depth of temperature probes below land-surface datum: O probe, 5.9 in. (15 cm); A probe, 20.9 in. (53 cm); C probe, 26 in. (66 cm). Elevation of gages above land-surface datum: 4.0 in. (10.2 cm).

PERIOD OF RECORD.--October 17, 1980, to October 10, 1981.

REMARKS.--Hand-dug soil moisture station on upper slope of forested deposits of till. Three tensiometers and three temperature probes emplaced at varied depths in the uphill soil profile. Station backfilled with original materials.

		SOIL MOISTURE, IN CENTIBARS OF MOISTURE TENSION			SOIL TEMPERATURE, IN DEGREES CELSIUS		
DATE	TIME	A-PROBE	B-PROBE	C-PROBE	O-PROBE	A-PROBE	C-PROBE
17OCT1980	--	5.0	12.0	13.0	6.8	6.8	7.9
18OCT1980	--	3.0	12.0	12.0	8.7	9.5	8.1
19OCT1980	--	3.0	9.0	12.0	8.6	8.3	8.1
20OCT1980	--	4.0	9.0	13.0	7.7	6.7	8.4
22OCT1980	--	3.0	2.0	11.0	5.3	4.2	7.9
02NOV1980	--	.0	2.0	3.0	3.0	2.3	6.0
05NOV1980	--	.0	.0	3.0	2.7	2.2	5.6
06NOV1980	--	.0	2.0	4.0	2.5	1.7	5.6
07NOV1980	--	.0	3.0	5.0	2.4	1.6	5.5
08NOV1980	--	.0	1.0	3.0	2.9	2.8	5.4
11NOV1980	--	.0	2.0	3.0	2.3	1.7	5.0
12NOV1980	--	.0	4.0	5.0	2.2	1.7	4.8
14NOV1980	--	.0	3.0	5.0	2.5	1.9	5.2
18NOV1980	--	.0	4.0	5.0	1.5	.7	4.6
19NOV1980	--	.0	5.0	6.0	1.6	1.1	5.5
25NOV1980	--	.0	2.0	5.0	1.3	.8	4.1
26NOV1980	--	.0	2.0	3.0	1.6	1.0	4.1
29NOV1980	--	.0	3.0	5.0	1.3	.8	4.0
30NOV1980	--	.0	4.0	5.0	1.0	.6	3.6
02DEC1980	--	.0	3.0	4.0	2.1	1.6	4.2
08DEC1980	--	.0	4.0	5.0	1.1	.5	3.6
09DEC1980	--	.0	1.0	3.0	1.2	.6	3.7
10DEC1980	--	.0	2.0	3.0	1.1	.6	3.5
11DEC1980	--	.0	5.0	5.0	1.3	.9	3.6
13DEC1980	--	.0	4.0	5.0	1.2	.6	3.5
15DEC1980	--	.0	5.0	5.0	1.1	.6	3.3
16DEC1980	--	.0	4.0	5.0	1.1	.6	3.7
17DEC1980	--	.0	5.0	6.0	1.1	.5	3.2
19DEC1980	--	.0	6.0	7.0	1.1	.7	3.3
22DEC1980	--	.0	5.0	6.0	1.1	.6	3.3
23DEC1980	--	.0	6.0	7.0	1.0	.5	3.2
26DEC1980	--	.0	6.0	7.0	1.0	.6	3.1
29DEC1980	--	.0	5.0	7.0	1.1	.6	3.2
30DEC1980	--	.0	7.0	8.0	1.0	.4	3.1
02JAN1981	--	0.0	6.0	7.0	0.8	0.3	2.9
07JAN1981	--	.0	6.0	7.0	.7	.1	2.9
08JAN1981	--	.0	6.0	8.0	.7	.1	2.8
14JAN1981	--	.0	8.0	8.0	-.5	-1.0	1.6
19JAN1981	1115	.0	7.0	9.0	.2	-.2	2.2
22JAN1981	0905	.0	9.0	9.0	.3	-.1	2.2
23JAN1981	1000	.0	8.0	9.0	.1	-.2	2.1
27JAN1981	1010	.0	8.0	9.0	.3	.0	2.1
28JAN1981	0925	.0	9.0	10.0	-.1	-.5	1.7
03FEB1981	1040	.0	3.0	6.0	-.3	-.6	1.3
04FEB1981	1305	.0	3.0	5.0	.1	-.1	1.8
05FEB1981	1040	.0	5.0	7.0	.1	-.3	1.8
07FEB1981	1150	.0	3.0	6.0	.4	.1	2.0
10FEB1981	1405	.0	4.0	6.0	.1	-.3	1.9
11FEB1981	0940	.0	4.0	0.0	.4	.1	1.7
12FEB1981	1220	.0	2.0	5.0	.0	-.2	1.4
13FEB1981	1220	2.0	3.0	5.0	.3	.0	1.7

Table 3.--Soil moisture and soil temperature--Continued

A-2. Panther Lake -Station PH20--Continued

	SOIL MOISTURE, IN CENTIBARS OF MOISTURE TENSION				SOIL TEMPERATURE, IN DEGREES CELSIUS		
DATE	TIME	A-PROBE	B-PROBE	C-PROBE	O-PROBE	A-PROBE	C-PROBE
18FEB1981	1015	6.0	3.0	4.0	.3	.0	1.7
20FEB1981	1125	4.0	.0	3.0	.0	-.2	1.3
24FEB1981	1030	2.0	.0	1.0	.0	-.2	1.2
03MAR1981	1140	9.0	4.0	5.0	.4	.2	1.6
04MAR1981	0900	9.0	4.0	6.0	.2	.0	1.5
06MAR1981	0950	10.0	4.0	5.0	.2	.0	1.5
07MAR1981	0935	10.0	5.0	6.0	.7	.4	1.8
10MAR1981	1305	11.0	4.0	5.0	.3	.1	1.5
11MAR1981	0850	11.0	5.0	6.0	.0	-.1	1.3
12MAR1981	1115	11.0	5.0	6.0	.0	-.1	1.3
14MAR1981	1105	11.0	5.0	7.0	--	--	--
16MAR1981	0830	11.0	5.0	7.0	.3	.1	1.5
18MAR1981	0940	11.0	5.0	7.0	.4	.1	1.6
25MAR1981	1000	8.0	5.0	7.0	.5	.2	1.7
08APR1981	1010	8.0	0.0	3.0	1.9	1.9	2.0
15APR1981	1445	8.0	2.0	3.0	2.5	1.9	2.3
22APR1981	0940	8.0	2.0	3.0	1.7	1.1	2.8
25APR1981	1100	8.0	4.0	5.0	3.2	3.2	2.7
29APR1981	0740	6.0	4.0	5.0	5.0	5.7	2.6
30APR1981	1055	7.0	3.0	4.0	6.0	6.2	3.5
06MAY1981	1020	6.0	7.0	7.0	8.3	9.1	4.3
07MAY1981	1205	8.0	3.0	4.0	6.0	5.2	4.8
11MAY1981	--	7.0	8.0	7.0	8.8	10.0	4.8
12MAY1981	1000	7.0	6.0	6.0	9.4	10.3	5.5
13MAY1981	0555	8.0	6.0	5.0	8.8	8.2	5.8
16MAY1981	0845	7.0	5.0	5.0	9.3	9.7	5.7
20MAY1981	1000	8.0	4.0	4.0	6.5	5.8	5.7
27MAY1981	1205	10.0	9.0	7.0	10.9	11.9	6.8
28MAY1981	0950	11.0	9.0	8.0	11.4	12.3	6.8
31MAY1981	1120	14.0	10.0	9.0	11.3	11.7	7.5
03JUN1981	1055	12.0	10.0	10.0	10.5	11.0	7.6
04JUN1981	1005	12.0	10.0	10.0	10.9	11.7	7.7
05JUN1981	1100	12.0	11.0	10.0	11.3	12.1	7.7
07JUN1981	--	12.0	14.0	13.0	11.6	11.6	8.0
09JUN1981	--	12.0	13.0	13.0	11.3	12.2	8.2
10JUN1981	1120	12.0	13.0	13.0	10.9	11.1	8.1
11JUN1981	0840	13.0	15.0	14.0	10.6	10.6	8.1
24JUN1981	0530	12.0	16.0	19.0	12.2	11.8	9.4
25JUN1981	0925	11.0	14.0	17.0	12.0	12.6	9.7
26JUN1981	1130	10.0	15.0	18.0	12.4	12.1	9.6
27JUN1981	0955	8.0	14.0	17.0	11.1	10.7	9.5
01JUL1981	1125	9.0	15.0	19.0	14.0	14.9	9.7
03JUL1981	1425	10.0	17.0	22.0	14.5	15.5	10.1
06JUL1981	0745	4.0	20.0	25.0	15.0	15.6	--
08JUL1981	1000	4.0	22.0	27.0	15.9	16.8	10.8
10JUL1981	1100	4.0	25.0	31.0	16.7	17.4	11.3
15JUL1981	0800	4.0	36.0	40.0	14.1	14.1	11.5
18JUL1981	1310	4.0	40.0	43.0	13.1	14.3	11.2
20JUL1981	1050	4.0	43.0	45.0	15.2	15.1	11.3
21JUL1981	0950	3.0	41.0	7.0	16.7	17.4	11.8
22JUL1981	1035	5.0	37.0	12.0	15.6	15.4	12.0
27JUL1981	1210	7.0	28.0	23.0	15.0	15.2	11.5
29JUL1981	0745	6.0	26.0	6.0	13.5	13.6	11.7
30JUL1981	0920	7.0	24.0	9.0	12.8	12.2	11.7
04AUG1981	0855	8.0	18.0	19.0	14.8	15.1	11.3
05AUG1981	0950	7.0	18.0	20.0	15.3	15.9	11.5
06AUG1981	1005	6.0	17.0	20.0	15.1	15.9	12.0
08AUG1981	0950	4.0	21.0	25.0	14.8	15.0	11.8
09AUG1981	1430	--	--	--	15.3	16.2	12.1
10AUG1981	0900	8.0	21.0	26.0	--	--	--
11AUG1981	1130	8.0	20.0	25.0	--	--	--
12AUG1981	1200	8.0	16.0	10.0	15.8	16.0	12.6
14AUG1981	1100	8.0	14.0	13.0	14.5	14.2	12.5
16AUG1981	1020	6.0	11.0	13.0	15.7	15.4	12.5
17AUG1981	1110	8.0	10.0	10.0	13.6	12.7	12.5
19AUG1981	1115	8.0	9.0	10.0	12.6	12.2	12.2
24AUG1981	1155	7.0	11.0	15.0	14.0	14.3	11.3
26AUG1981	1105	8.0	14.0	18.0	13.0	12.4	--
29AUG1981	0945	3.0	16.0	20.0	13.5	13.8	11.6

Table 3.--Soil moisture and soil temperature--Continued

A-2. Panther Lake - Station PH20--Continued

		SOIL MOISTURE, IN CENTIBARS OF MOISTURE TENSION			SOIL TEMPERATURE, IN DEGREES CELSIUS		
DATE	TIME	A-PROBE	B-PROBE	C-PROBE	O-PROBE	A-PROBE	C-PROBE
01SEP1981	1130	3.0	16.0	21.0	14.5	14.9	--
02SEP1981	1310	3.0	16.0	22.0	14.9	15.4	12.1
03SEP1981	0955	3.0	17.0	23.0	14.6	14.8	17.1
08SEP1981	0940	2.0	10.0	17.0	14.7	15.1	12.1
09SEP1981	1355	3.0	11.0	9.0	13.8	13.0	12.5
11SEP1981	0950	3.0	8.0	10.0	12.3	12.1	12.1
21SEP1981	1400	5.0	6.5	7.5	9.8	9.1	11.0
21SEP1981	2300	7.0	6.5	6.5	9.9	9.4	11.0
22SEP1981	0000	7.0	6.5	6.5	9.9	9.4	11.0
22SEP1981	0100	7.0	6.5	6.5	9.8	9.3	11.0
22SEP1981	0200	7.0	7.0	7.0	9.8	9.2	10.9
22SEP1981	0300	7.0	6.5	6.5	9.8	9.2	10.9
22SEP1981	0400	7.0	7.0	7.0	9.6	8.9	10.9
22SEP1981	0500	6.5	7.0	7.0	9.5	8.7	10.8
22SEP1981	0600	7.0	7.0	7.0	9.3	8.6	10.7
22SEP1981	0700	7.0	6.7	4.0	9.2	8.4	10.7
22SEP1981	0800	7.0	7.0	7.0	9.1	8.3	10.7
22SEP1981	0900	6.5	6.5	7.0	8.9	8.2	10.7
22SEP1981	1000	7.0	6.5	6.5	8.7	8.1	10.7
22SEP1981	1100	7.0	6.5	5.5	8.8	8.2	10.6
22SEP1981	1200	7.0	6.0	5.5	8.6	8.1	10.5
22SEP1981	1300	6.5	6.0	5.0	8.7	8.2	10.5
22SEP1981	1400	7.0	5.5	5.0	8.7	8.3	10.5
22SEP1981	1500	7.5	5.0	5.0	8.8	8.5	10.6
22SEP1981	1600	7.3	5.0	5.0	8.8	8.5	10.5
22SEP1981	1700	7.0	4.5	4.5	8.7	8.4	10.4
22SEP1981	1900	7.0	4.5	4.5	8.8	8.4	10.3
23SEP1981	0300	7.5	4.5	3.5	9.1	8.8	10.6
23SEP1981	0500	8.0	4.0	3.5	5.8	5.4	7.1
23SEP1981	0800	7.5	3.5	3.5	6.6	5.9	7.6
23SEP1981	1100	8.0	3.5	3.5	4.0	3.7	5.3
23SEP1981	1300	8.0	3.5	3.0	4.3	3.8	5.4
23SEP1981	1400	7.5	3.0	3.0	4.4	3.7	5.3
23SEP1981	1500	7.5	3.5	3.0	4.5	3.9	5.6
23SEP1981	1600	7.0	3.5	2.5	4.4	3.6	5.5
23SEP1981	1700	6.0	3.5	3.0	---	---	---
23SEP1981	1800	6.0	3.0	2.5	---	---	---
23SEP1981	1900	5.5	2.5	3.0	---	---	---
23SEP1981	2000	5.5	2.5	2.0	---	---	---
23SEP1981	2100	5.5	2.5	2.0	4.1	3.4	---
24SEP1981	0200	7.0	.5	1.5	4.2	3.6	5.9
24SEP1981	0500	7.5	.5	1.0	4.5	3.8	---
24SEP1981	0800	7.5	.5	1.5	---	---	---
24SEP1981	1200	7.5	1.0	1.7	---	---	---
24SEP1981	1500	7.5	1.0	2.0	7.2	7.8	10.4
25SEP1981	1000	7.5	1.5	2.0	6.8	6.1	8.0
25SEP1981	2000	5.0	1.0	2.5	6.4	6.6	8.2
26SEP1981	1600	4.5	2.0	2.5	8.5	8.5	9.7
27SEP1981	1300	3.0	1.0	3.5	10.1	10.7	10.2
27SEP1981	1700	3.0	.5	3.5	9.4	10.8	---
28SEP1981	1500	3.3	4.0	4.0	10.1	9.6	9.9

Table 3.--Soil moisture and soil temperature--Continued

A-2. Panther Lake - Station PH 20--Continued

INTENSIVE SAMPLING, FALL 1981

		SOIL MOISTURE, IN CENTIBARS OF MOISTURE TENSION			SOIL TEMPERATURE, IN DEGREES CELSIUS		
DATE	TIME	A-PROBE	B-PROBE	C-PROBE	O-PROBE	A-PROBE	C-PROBE
01OCT1981	1200	3.3	3.0	3.0	6.7	5.7	9.8
01OCT1981	1400	3.3	3.0	3.0	6.7	5.7	9.8
01OCT1981	1500	3.0	3.0	2.5	6.5	5.5	9.7
01OCT1981	1600	3.0	3.0	3.0	6.3	5.4	9.4
01OCT1981	1700	3.0	2.5	2.5	---	---	---
01OCT1981	1800	3.0	2.5	2.5	5.9	5.2	9.1
01OCT1981	2100	2.1	2.5	2.5	6.3	5.9	9.3
02OCT1981	0200	1.1	2.5	3.5	6.7	6.6	9.4
06OCT1981	1300	---	2.5	2.5	---	---	---
06OCT1981	1400	---	2.5	2.5	---	---	---
06OCT1981	1500	---	1.5	1.5	6.8	6.9	8.3
06OCT1981	1600	---	1.5	1.5	6.8	7.1	8.3
06OCT1981	1700	---	1.5	2.5	6.8	7.4	8.2
06OCT1981	1800	---	1.5	1.5	6.9	7.4	8.2
07OCT1981	0100	---	2.5	2.5	7.6	7.7	8.1
07OCT1981	0300	---	2.5	3.5	7.5	7.5	8.6
07OCT1981	0400	---	2.5	3.5	7.5	7.6	8.4
07OCT1981	0500	---	2.5	3.5	7.3	7.4	8.3
07OCT1981	0600	---	2.5	3.5	7.5	7.3	8.2
07OCT1981	0800	---	2.5	3.5	7.3	7.4	8.3
07OCT1981	0900	---	2.0	3.0	7.3	7.6	8.2
07OCT1981	1000	---	2.0	3.5	8.0	7.5	---
07OCT1981	1100	---	2.5	3.5	8.0	7.5	---
07OCT1981	1200	---	2.5	3.5	7.5	7.0	---
07OCT1981	1300	---	2.0	3.0	7.5	7.1	8.4
07OCT1981	1400	---	1.5	2.0	7.6	7.1	---
07OCT1981	1500	---	2.0	2.5	7.5	7.0	8.5
07OCT1981	1600	---	1.5	2.5	7.4	6.9	8.5
07OCT1981	1700	---	2.0	2.5	7.5	6.5	---
07OCT1981	1800	---	1.5	2.0	6.9	6.5	8.3
07OCT1981	1900	---	2.0	2.5	6.9	6.5	8.3
07OCT1981	2000	---	2.0	2.5	7.0	6.5	8.4
07OCT1981	2100	---	2.0	2.5	7.1	6.4	---
07OCT1981	2200	---	2.0	2.0	6.8	6.3	8.3
08OCT1981	0000	5.0	1.5	1.7	7.0	6.5	---
08OCT1981	0300	---	---	---	7.2	6.8	8.5
08OCT1981	0400	---	1.5	2.0	7.1	6.6	8.5
08OCT1981	0700	---	1.0	2.5	7.0	6.5	---
08OCT1981	1400	---	.5	1.2	---	---	---
08OCT1981	1800	7.0	.5	1.5	6.3	6.8	8.5
08OCT1981	2300	7.0	.5	1.5	6.6	6.1	8.3
09OCT1981	0500	---	1.0	1.5	6.5	5.9	8.2
09OCT1981	1100	---	1.0	1.0	7.0	6.3	8.7
09OCT1981	1500	---	.5	1.2	6.6	6.1	8.4
10OCT1981	1000	---	1.5	1.5	6.1	5.1	8.0

Table 3.--Soil moisture and soil temperature--Continued

A-3. Panther Lake - Station PH30

LOCATION.--Lat 43°41'49", long 74°55'37", Herkimer County, Hydrologic Unit 04150101, 100 ft (30 m) west of trail 0.3 mi (0.5 km) southwest of Fishbarrier Dam at Panther Lake outlet, 220 ft (67 m) east of mouth of tributary at Panther Lake 3.2 mi (5.2 km) southeast of Old Forge.

SOIL PROFILE.--Haplaquod Spodosol. Horizon thickness: O1 and O2 horizon, 7.1 and 11.0 in. (18 and 28 cm); A2 horizon, 0-2 in. (0-5 cm); B1 horizon, 15.7 (> 40 cm). Total depth of profile 21.6 in. (55 cm).

DATUM.--Depth of tensiometer probes below land-surface datum: A probe, 9.0 in. (23 cm); B probe, 18.5 in. (47 cm); C probe, 21.6 in. (55 cm). Elevation of gages above land-surface datum: 2.7 in. (7 cm).

PERIOD OF RECORD.--August 5, 1980, to November 6, 1981.

REMARKS.--Hand-dug soil moisture station on lower slope of forested deposits of till. Three tensiometers and three temperature probes emplaced at varied depths in the uphill soil profile. Station covered with plywood.

SOIL MOISTURE, IN CENTIBARS OF MOISTURE TENSION

DATE	TIME	A-PROBE	B-PROBE	C-PROBE
05AUG1980	1300	6.0	3.5	4.0
12AUG1980	1000	8.0	5.5	6.0
25AUG1980	--	10.0	7.0	7.5
28OCT1980	--	2.0	.0	1.0
02DEC1980	--	.0	6.5	.0
06JAN1981	--	13.0	19.0	2.0
05FEB1981	--	5.0	2.5	3.0
04MAR1981	--	3.5	.5	1.5
01APR1981	--	3.0	1.5	2.0
28APR1981	--	4.0	2.5	3.0
02JUN1981	--	8.0	5.5	5.0
01JUL1981	1300	9.0	5.5	6.0
14JUL1981	--	15.0	9.5	9.0
15JUL1981	--	13.0	9.0	8.5
16JUL1981	--	17.0	10.5	10.0
26JUL1981	--	8.0	4.5	4.5
27JUL1981	1700	7.0	4.0	4.2
29JUL1981	1100	4.0	.5	.5
29JUL1981	1500	4.0	.5	.2
06AUG1981	1700	6.2	3.7	4.4
12AUG1981	1700	4.0	1.5	2.0
13AUG1981	1600	4.2	1.7	2.0
21AUG1981	1100	6.0	3.5	3.0
14SEP1981	1600	6.0	3.5	3.0
12OCT1981	1800	4.0	17.5	1.0
17OCT1981	1600	4.0	2.5	3.0
03NOV1981	1200	5.0	1.5	1.5
03NOV1981	1300	5.0	1.5	2.0
06NOV1981	1500	--	1.5	--

INTENSIVE SAMPLING, FALL 1981

SOIL MOISTURE, IN CENTIBARS OF MOISTURE TENSION

DATE	TIME	A-PROBE	B-PROBE	C-PROBE	DATE	TIME	A-PROBE	B-PROBE	C-PROBE
21SEP1981	2000	3.0	3.0	3.0	01OCT1981	1700	3.5	3.5	4.0
22SEP1981	0230	3.0	3.0	3.5	02OCT1981	0000	3.5	3.0	4.0
22SEP1981	1300	1.5	1.0	1.5	06OCT1981	1130	4.0	4.0	4.0
22SEP1981	2000	1.0	1.0	2.0	06OCT1981	1700	3.0	3.0	4.0
23SEP1981	0130	1.0	1.0	1.0	06OCT1981	2300	2.0	2.0	3.5
23SEP1981	0700	1.5	1.5	2.0	07OCT1981	0600	2.5	2.0	2.5
23SEP1981	1230	1.5	2.0	1.0	07OCT1981	1100	2.0	1.5	2.0
23SEP1981	2200	.0	.0	.0	07OCT1981	1730	2.0	1.5	2.0
24SEP1981	0130	.5	.0	.0	07OCT1981	2300	1.5	1.0	1.5
24SEP1981	0700	1.0	1.0	1.0	08OCT1981	0530	1.5	1.0	1.5
24SEP1981	1300	.5	1.0	1.5	08OCT1981	1000	1.5	1.0	2.0
25SEP1981	0900	1.5	2.0	1.5	08OCT1981	1700	1.0	1.5	2.5
25SEP1981	1830	3.0	2.5	3.0	08OCT1981	2230	2.0	2.0	2.0
26SEP1981	1500	3.0	3.0	3.5	09OCT1981	0430	2.0	1.5	2.0
27SEP1981	1600	4.0	4.0	5.0	09OCT1981	1000	1.5	1.5	2.0
28SEP1981	1430	3.0	3.0	5.0	09OCT1981	1630	2.0	2.0	2.5
30SEP1981	1930	3.0	3.0	3.5	10OCT1981	0830	1.5	1.5	1.5
30SEP1981	2230	2.0	2.0	2.5	10OCT1981	2000	2.5	3.5	3.0
01OCT1981	1300	3.5	3.5	3.0	11OCT1981	2000	3.0	6.0	3.0

Table 3.--Soil moisture and soil temperature--Continued

A-4. Panther Lake - Station PH40

LOCATION.--Lat 43°41'48", long 74°55'14", Herkimer County, Hydrologic Unit 04150101, 200 ft (61 m) east of the east shore of Panther Lake, 750 ft (230 m) north of the southeast end of Panther Lake, and 3.4 mi (5.4 km) southeast of Old Forge.

SOIL PROFILE.--Typic Fragiorthod Spodosol. Horizon thickness: O1 and O2 horizon, 4.7 and 6.7 (12 and 17 cm); A2 horizon, 0-5 in. (0-2.0 cm); B horizon, 5.9-7.9 in. (15-20 cm); C horizon, 9.8-11.8 in. (25-30 cm). Total depth of profile 13 ft (3.96 m).

DATUM.--Depth of tensiometer probes below land-surface datum: A probe, 6 in. (2.4 cm); B probe, 12 in. (4.7 cm); C probe, 36 in. (14.2 cm); D probe, 48 in. (18.9 cm). Elevation of gages above land-surface datum: approximately 3.9 in. (10 cm).

PERIOD OF RECORD.--August 27 to November 6, 1981.

REMARKS.--Hand-dug soil moisture station on upper slope of forested deposits of till. Three tensiometers emplaced in the uphill soil profile. Station not backfilled. Tensiometers filled with deionized water.

SOIL MOISTURE, IN CENTIBARS OF MOISTURE TENSION

DATE	TIME	A-PROBE	B-PROBE	C-PROBE	D-PROBE
27AUG1981	0900	4.0	4.0	4.0	6.0
14SEP1981	1400	2.5	2.0	.5	4.0
16SEP1981	1000	1.5	2.0	.5	4.0
17SEP1981	1300	2.5	3.0	2.0	a16.0
12OCT1981	1600	.5	.5	.0	1.5
17OCT1981	1400	1.5	.0	.0	2.0
03NOV1981	1100	.0	.0	--	--
06NOV1981	1200	2.0	1.2	--	--

a Tensiometer was reimplaced in soil.

INTENSIVE SAMPLING, FALL 1981

SOIL MOISTURE, IN CENTIBARS OF MOISTURE TENSION

DATE	TIME	A-PROBE	B-PROBE	C-PROBE		DATE	TIME	A-PROBE	B-PROBE	C-PROBE	
21SEP1981	1800	6.0	5.0	4.0	12.5	01OCT1981	1500	6.0	5.0	4.0	13.0
22SEP1981	0000	6.0	5.0	4.0	12.5	01OCT1981	2200	7.0	5.5	4.0	13.5
22SEP1981	0530	.0	1.5	2.0	12.5	06OCT1981	1100	7.5	6.0	5.5	14.5
22SEP1981	1130	.0	.5	1.0	10.5	06OCT1981	1600	8.0	4.5	5.0	13.5
22SEP1981	1730	2.0	1.0	1.0	10.5	06OCT1981	2130	4.0	2.0	4.0	12.5
22SEP1981	2330	2.0	2.0	2.0	10.5	07OCT1981	0400	3.5	4.0	3.5	12.5
23SEP1981	0600	2.0	2.0	.5	10.5	07OCT1981	0930	3.0	2.5	3.0	11.0
23SEP1981	1130	3.0	3.0	2.0	10.5	07OCT1981	1530	2.0	2.5	2.5	11.0
23SEP1981	1800	.0	.0	.0	10.5	07OCT1981	2130	2.0	2.5	2.0	--
23SEP1981	2330	.0	.0	.5	10.0	08OCT1981	0400	2.0	2.0	1.5	9.5
24SEP1981	0500	1.0	.0	.5	10.5	08OCT1981	0930	2.0	2.0	1.0	9.0
24SEP1981	1130	1.5	1.0	.0	10.5	08OCT1981	1530	2.5	2.0	1.0	8.5
24SEP1981	1800	2.0	1.5	.5	10.5	08OCT1981	2130	3.0	2.0	1.5	8.5
25SEP1981	0730	2.0	2.0	.5	10.5	09OCT1981	0330	2.5	2.5	1.5	7.5
25SEP1981	1700	4.0	3.0	2.0	10.5	09OCT1981	0930	4.0	3.0	2.0	7.5
26SEP1981	1400	4.0	3.5	2.5	11.5	09OCT1981	1530	3.0	2.5	1.5	6.5
27SEP1981	1330	7.0	5.0	3.5	12.0	09OCT1981	2100	3.0	3.0	1.5	8.0
28SEP1981	1400	4.5	4.0	3.5	12.5	10OCT1981	0800	2.0	2.5	1.0	.5
30SEP1981	1600	5.0	4.0	3.0	12.5	10OCT1981	1830	5.0	4.0	3.0	.5
30SEP1981	2200	4.0	4.0	3.0	12.5	11OCT1981	2030	4.5	4.5	3.0	.0

Table 3.--soil moisture and soil temperature--Continued

B-1. Sagamore Lake - Station SH10

LOCATION.--Lat 43°45'55", long 74°37'39", Hamilton County, Hydrologic Unit 04150305, 20 ft (6 m) south of private road that crosses Sagamore Lake outlet, 100 ft (30 m) east of outlet stream, and 3.5 mi (5.6 km) southeast of Raquette Lake.

SOIL PROFILE.--Typic Haplorthod Spodosol. Horizon thickness: 01 and 02 horizon, 6.3 and 13.4 in. (16 and 34 cm); A2 horizon, 2.0-3.9 in. (5-10 cm); B horizon, 7.9-9.8 in. (20-25 cm); C horizon, > 11.8 in. (> 30 cm). Total depth of profile 30.3 in. (77 cm).

DATUM.--Depth of tensiometer probes below land-surface datum: A probe, 11.8 in. (30 cm); B probe, 22.4 in. (57 cm); C probe, 30.3 in. (77 cm). Depth of temperature probes below land-surface datum: O probe, 5.1 in. (13 cm); A probe, 11 in. (28 cm); C probe, 25.2 in. (64 cm). Elevation of tensiometer gages above land-surface datum: 4.3 in. (11 cm).

PERIOD OF RECORD.--October 15, 1980, to September 14, 1981.

REMARKS.--Hand-dug soil moisture station on upper slope of forested deposits of till. Three tensiometers and three temperature probes emplaced at varied depth in the uphill soil profile. Station backfilled with original materials.

		SOIL MOISTURE, IN CENTIBARS OF MOISTURE TENSION			SOIL TEMPERATURE, IN DEGREES CELSIUS		
DATE	TIME	A-PROBE	B-PROBE	C-PROBE	O-PROBE	A-PROBE	C-PROBE
15OCT1980	--	10.0	7.0	16.0	6.3	5.3	7.9
17OCT1980	--	12.0	8.0	18.0	6.7	6.7	7.7
18OCT1980	--	13.0	9.0	19.0	7.7	8.5	7.8
19OCT1980	--	8.0	6.0	18.0	8.1	8.1	8.0
20OCT1980	--	9.0	7.0	17.0	7.6	7.2	8.0
22OCT1980	--	5.0	5.0	15.0	6.5	5.6	7.8
05NOV1980	--	7.0	4.0	12.0	4.4	4.1	6.1
06NOV1980	--	8.0	3.0	11.0	4.2	3.4	6.0
07NOV1980	--	6.0	4.0	12.0	4.1	3.3	5.9
08NOV1980	--	6.0	3.0	11.0	4.3	4.0	6.0
11NOV1980	--	9.0	4.0	11.0	3.8	3.1	5.5
12NOV1980	--	10.0	5.0	11.0	3.7	2.9	5.4
14NOV1980	--	11.0	5.0	13.0	3.8	3.0	5.5
17NOV1980	--	12.0	4.0	34.0	3.2	2.2	5.1
18NOV1980	--	12.0	6.0	15.0	3.0	2.0	5.1
19NOV1980	--	12.0	6.0	15.0	4.5	3.4	6.5
22NOV1980	--	12.0	6.0	14.0	2.8	2.1	4.8
25NOV1980	--	7.0	3.0	13.0	2.9	2.1	4.8
26NOV1980	--	8.0	3.0	17.0	2.7	2.0	4.6
29NOV1980	--	9.0	4.0	14.0	2.6	1.9	4.4
30NOV1980	--	10.0	4.0	14.0	2.5	2.0	4.4
03DEC1980	--	6.0	3.0	.0	2.3	1.8	4.2
08DEC1980	--	12.0	3.0	14.0	2.0	1.4	4.0
09DEC1980	--	8.0	4.0	12.0	2.0	1.3	4.1
10DEC1980	--	9.0	3.0	13.0	2.0	1.4	4.0
11DEC1980	--	10.0	6.0	.0	2.0	1.3	3.9
13DEC1980	--	11.0	5.0	14.0	2.0	1.3	3.8
15DEC1980	--	12.0	4.0	14.0	1.8	1.2	3.7
16DEC1980	--	12.0	4.0	15.0	1.9	1.2	4.3
17DEC1980	--	12.0	6.0	14.0	1.7	1.0	3.5
19DEC1980	--	13.0	6.0	14.0	2.0	1.4	3.6
23DEC1980	--	13.0	5.0	20.0	1.6	.9	3.3
26DEC1980	--	14.0	5.0	15.0	1.5	.8	3.3
29DEC1980	--	4.0	5.0	15.0	1.5	.9	3.3
30DEC1980	--	8.0	7.0	15.0	1.4	.7	3.1

Table 3.--Soil moisture and soil temperature--Continued

B-1. Sagamore Lake - Station SH10--Continued

		SOIL MOISTURE, IN CENTIBARS OF MOISTURE TENSION			SOIL TEMPERATURE, IN DEGREES CELSIUS		
DATE	TIME	A-PROBE	B-PROBE	C-PROBE	O-PROBE	A-PROBE	C-PROBE
06MAY1981	1120	11.0	7.0	16.0	4.6	5.9	3.1
07MAY1981	1415	8.0	2.0	15.0	4.5	4.6	3.6
11MAY1981	--	9.0	8.0	16.0	5.1	6.7	3.5
13MAY1981	0730	7.0	5.0	13.0	6.0	6.5	3.8
16MAY1981	0745	7.0	4.0	12.0	6.9	8.1	4.4
20MAY1981	--	10.0	6.0	13.0	5.4	5.6	4.8
27MAY1981	1010	7.0	7.0	16.0	7.7	9.1	5.4
28MAY1981	1105	2.0	5.0	16.0	8.0	9.5	5.7
31MAY1981	1215	6.0	4.0	16.0	8.6	9.8	6.2
03JUN1981	0900	5.0	8.0	17.0	8.0	6.4	9.0
04JUN1981	0855	5.0	8.0	17.0	8.1	9.4	6.3
05JUN1981	1225	.0	5.0	17.0	8.8	10.1	6.6
07JUN1981	--	7.0	11.0	18.0	8.8	10.0	6.5
09JUN1981	--	6.0	10.0	19.0	8.6	9.9	6.8
10JUN1981	1020	7.0	9.0	18.0	8.8	9.6	7.1
11JUN1981	0945	8.0	9.0	18.0	8.7	9.5	7.1
24JUN1981	0615	13.0	9.0	7.0	10.1	10.6	8.2
25JUN1981	0740	13.0	6.0	18.0	9.8	10.7	8.4
26JUN1981	0800	8.0	8.0	17.0	10.3	11.2	8.3
27JUN1981	1050	9.0	4.0	15.0	9.8	10.1	8.4
01JUL1981	0935	16.0	8.0	18.0	10.7	12.1	8.6
03JUL1981	1110	21.0	7.0	20.0	11.4	12.9	8.9
06JUL1981	0910	10.0	9.0	20.0	11.9	13.3	9.2
08JUL1981	1100	18.0	6.0	20.0	12.1	13.6	9.4
10JUL1981	1200	25.0	8.0	22.0	13.1	14.6	10.0
15JUL1981	0944	31.0	12.0	24.0	12.1	12.7	10.2
20JUL1981	1200	26.0	14.0	27.0	12.3	13.7	10.2
21JUL1981	1110	7.0	6.0	14.0	13.7	15.1	10.4
22JUL1981	1155	7.0	3.0	14.0	14.0	14.6	11.1
27JUL1981	1310	2.0	5.0	16.0	12.4	13.6	10.7
29JUL1981	0840	--	--	--	12.0	12.5	10.7
30JUL1981	1025	4.0	2.0	13.0	11.7	11.9	10.7
04AUG1981	0800	1.0	7.0	16.0	12.3	13.5	10.5
05AUG1981	1055	2.0	6.0	17.0	12.7	14.1	10.7
06AUG1981	1100	.0	3.0	17.0	12.9	14.0	11.0
08AUG1981	1055	7.0	6.0	16.0	12.6	13.4	10.9
09AUG1981	1335	8.0	.0	14.0	13.1	14.0	11.1
10AUG1981	1010	9.0	4.0	14.0	--	--	--
12AUG1981	1025	8.0	3.0	14.0	13.4	14.3	11.4
14AUG1981	1300	11.0	2.0	14.0	12.8	13.2	11.5
16AUG1981	1125	8.0	3.0	14.0	13.0	14.1	11.5
17AUG1981	1010	8.0	4.0	13.0	12.4	12.5	11.3
19AUG1981	0935	11.0	6.0	14.0	11.6	11.4	11.1
24AUG1981	1310	18.0	6.0	17.0	12.0	12.9	10.9
26AUG1981	1325	17.0	4.0	17.0	11.7	11.9	11.0
29AUG1981	0835	20.0	7.0	18.0	11.6	12.3	10.8
01SEP1981	1030	20.0	6.0	19.0	12.5	13.6	11.2
02SEP1981	1410	22.0	6.0	20.0	12.7	13.8	11.4
03SEP1981	0900	7.0	7.0	19.0	12.6	13.6	11.2
05SEP1981	1255	11.0	5.0	17.0	12.4	13.3	11.3
08SEP1981	1040	15.0	5.0	19.0	12.5	13.6	11.4
09SEP1981	1240	8.0	6.0	14.0	12.5	12.9	11.5
10SEP1981	1045	9.0	3.0	14.0	11.7	11.2	11.4
11SEP1981	0900	7.0	3.0	12.0	11.4	11.7	11.2
12SEP1981	1325	10.0	2.0	14.0	11.4	11.9	11.2
14SEP1981	0925	9.0	4.0	16.0	12.6	13.3	11.5

Table 3.--Soil moisture and soil temperature--Continued

C-1. Woods Lake - Station WH10

LOCATION.--Lat. 43°52'19", long 75°57'22", Herkimer County, Hydrologic Unit 04150101, 500 ft (152 m) southeast of Woods Lake, 1,500 ft (460 m) northeast of private road to camp at Woods Lake outlet, and 3.9 mi (6.2 km) northeast of Big Moose.

SOIL PROFILE.--Haplorthod Spodosol. Horizon thickness: O1 horizon, 2.7-3.5 in. (7-9 cm); O2 horizon, 1.6-2.7 in. (4-7 cm); A2 horizon, 0.39-2.7 in. (1-7 cm); B2 horizon, 9.4-12.6 in. (24-32 cm); B3 horizon, 5.9-9.8 in. (15-25 cm); C horizon, > 7.9 in. (> 20 cm). Total depth of profile 30.3 in. (77 cm).

DATUM.--Depth of tensiometer probes below land-surface datum: A probe, 7.5 in. (19 cm); B probe, 23.6 in. (60 cm); C probe, 30.3 in. (77 cm). Elevation of tensiometer gages above land-surface datum: A probe, 5.1 in. (13 cm); B probe, 3.1 in. (8 cm); C probe, 7.1 in. (18 cm).

PERIOD OF RECORD.--July 11, 1980, to November 5, 1981.

REMARKS.--Hand-dug soil mositure station on midslope of forested deposits of till. Three tensiometers emplaced in uphill soil profile. Station not backfilled, hole covered with plywood.

SOIL MOISTURE, IN CENTIBARS OF MOISTURE TENSION

DATE	TIME	A-PROBE	B-PROBE	C-PROBE
11JUL1980	0800	21.0	18.0	--
14JUL1980	1000	10.0	15.0	--
15JUL1980	0800	--	--	--
24JUL1980	0900	4.0	5.5	3.0
31JUL1980	1200	6.0	7.0	6.0
01AUG1980	0800	8.0	8.0	5.0
08AUG1980	1300	9.0	8.0	5.0
13AUG1980	0800	9.5	9.0	5.5
26AUG1980	1100	18.0	14.0	2.0
29OCT1980	--	4.0	5.0	1.5
04DEC1980	--	.0	.0	7.0
07JAN1981	--	10.0	8.5	7.0
03FEB1981	--	7.0	9.0	6.0
03MAR1981	--	6.0	6.0	4.0
17MAR1981	--	8.0	7.0	5.0
31MAR1981	--	2.0	1.0	.0
29APR1981	--	6.0	7.0	4.0
02JUN1981	--	12.0	10.0	6.0
30JUN1981	1000	8.0	7.0	5.0
15JUL1981	--	15.0	14.0	10.0
26JUL1981	--	10.5	8.5	7.0
27JUL1981	1300	6.0	8.0	5.0
30JUL1981	1100	8.5	4.0	2.5
07AUG1981	1100	8.7	8.1	5.7
13AUG1981	1000	6.0	5.9	3.0
20AUG1981	1500	8.0	7.0	3.0
28AUG1981	1200	13.0	9.0	--
15SEP1981	1400	6.0	6.0	3.0
28SEP1981	1200	--	--	5.5
30SEP1981	1400	4.0	4.0	1.0
02OCT1981	1100	5.0	5.5	3.0
13OCT1981	1700	2.0	5.5	1.0
05NOV1981	1300	6.0	4.0	1.0

Table 3.--Soil moisture and soil temperature--Continued

C-2. Woods Lake - Station WH20

LOCATION.--Lat 43°51'55", long 75°57'15", Herkimer County, Hydrologic Unit 04150101, 30 ft (9 m) northeast of private road to camp at Woods Lake outlet, 100 ft (30 m) southeast of dam at Woods Lake outlet, and 3.9 mi (6.2 km) northeast of Big Moose.

SOIL PROFILE.--Haplaquod Spodosol. Horizon thickness: 01 and 02 horizon, 3.1 and 4.7 in. (8 and 12 cm); A2 horizon, 2.4-5.5 in. (6-14 cm); B2 horizon, 5.5-7.1 in. (14-18 cm); B3 horizon, 6.3 in. (16 cm); C horizon, 7.9 in. (> 20 cm). Total depth of profile 26.8 in. (68 cm).

DATUM.--Depth of tensiometer probes below land-surface datum: A probe, 4.7 in. (12 cm); B probe, 19.7 in. (50 cm); C probe, 26.8 in. (68 cm). Depth of temperature probes below land-surface datum: O probe, 3 in (8 cm); A probe, 5.5 in. (14 cm); C probe, 22.0 in. (56 cm). Elevation of gages above land-surface datum: A probe, 6.3 in. (16 cm); B probe, 3.9 in. (10 cm); C probe 3.9 in. (10 cm).

PERIOD OF RECORD.--October 15, 1980, to September 30, 1981.

REMARKS.--Hand-dug soil moisture station on lower slope of forested deposits of till. Three tensiometers and three temperature probes emplaced at varied depths in the uphill soil profile. Station backfilled with original materials.

		SOIL MOISTURE, IN CENTIBARS OF MOISTURE TENSION			SOIL TEMPERATURE, IN DEGREES CELSIUS		
DATE	TIME	A-PROBE	B-PROBE	C-PROBE	O-PROBE	A-PROBE	C-PROBE
15OCT1980	--	0.0	4.0	3.0	4.8	4.3	8.6
17OCT1980	--	2.0	5.0	4.0	7.2	7.6	8.5
18OCT1980	--	.0	3.0	2.0	9.1	9.7	8.2
20OCT1980	--	.0	4.0	2.0	6.8	6.4	8.4
04NOV1980	--	.0	2.0	1.0	2.8	2.3	6.3
06NOV1980	--	.0	2.0	1.0	.7	2.1	5.8
07NOV1980	--	.0	2.0	1.0	2.7	2.2	5.9
08NOV1980	--	.0	1.0	.0	3.0	2.5	5.7
12NOV1980	--	.0	3.0	2.0	2.3	1.9	5.0
14NOV1980	--	.0	2.0	2.0	2.2	1.8	5.0
18NOV1980	--	.0	4.0	4.0	1.7	1.3	5.0
25NOV1980	--	.0	2.0	2.0	1.5	1.2	4.2
26NOV1980	--	.0	3.0	2.0	1.5	1.1	4.2
29NOV1980	--	.0	2.0	2.0	1.2	.8	3.9
03DEC1980	--	.0	2.0	.0	1.4	1.0	3.8
04DEC1980	--	.0	2.0	2.0	1.5	1.2	3.9
08DEC1980	--	.0	2.0	2.0	.9	.6	4.0
10DEC1980	--	.0	3.0	2.0	.8	.5	3.4
11DEC1980	--	.0	3.0	2.0	1.0	.7	3.5
12DEC1980	--	.0	3.0	2.0	.7	.3	3.1
13DEC1980	--	.0	3.0	3.0	.9	.6	3.5
14DEC1980	--	3.0	4.0	4.0	.5	.2	3.0
15DEC1980	--	1.0	4.0	4.0	1.1	.7	3.6
16DEC1980	--	1.0	4.0	4.0	1.0	.7	3.6
18DEC1980	--	2.0	5.0	4.0	1.0	.7	3.7
19DEC1980	--	2.0	6.0	5.0	1.2	.5	3.3
20DEC1980	--	2.0	6.0	4.0	-.6	-.9	1.9
26DEC1980	--	3.0	6.0	4.0	.7	.4	3.3
29DEC1980	--	3.0	6.0	6.0	.8	.6	3.6

Table 3.--Soil moisture and soil temperature--Continued

C-2. Woods Lake - Station WH20--Continued

		SOIL MOISTURE, IN CENTIBARS OF MOISTURE TENSION			SOIL TEMPERATURE, IN DEGREES CELSIUS		
DATE	TIME	A-PROBE	B-PROBE	C-PROBE	O-PROBE	A-PROBE	C-PROBE
02JAN1981	--	3.0	6.0	5.0	0.7	0.5	3.3
17JAN1981	1240	5.0	8.0	6.0	.1	-.2	2.7
24JAN1981	0835	4.0	8.0	6.0	-.1	-.6	2.2
27JAN1981	1345	4.0	8.0	7.0	.1	-.2	2.4
30JAN1981	1235	5.0	8.0	7.0	.0	-.5	2.1
02FEB1981	1310	.0	2.0	2.0	.0	-.5	2.2
05FEB1981	1300	2.0	4.0	2.0	.0	-.4	2.1
07FEB1981	0815	2.0	5.0	3.0	.3	.0	2.5
08FEB1981	1150	2.0	6.0	4.0	.0	-.5	2.0
10FEB1981	1040	2.0	6.0	5.0	-.2	-.7	1.7
13FEB1981	1725	.0	.0	2.0	.4	-.1	2.3
21FEB1981	0835	.0	2.0	1.0	.2	1.2	1.6
22FEB1981	0920	.0	2.0	.0	.2	1.2	1.7
26FEB1981	0915	.0	3.0	1.0	.4	.9	2.0
01MAR1981	1350	.0	4.0	2.0	.3	.4	1.8
03MAR1981	0900	.0	4.0	3.0	.0	-.2	1.6
05MAR1981	1220	2.0	5.0	4.0	.5	.7	2.1
07MAR1981	1235	2.0	5.0	4.0	.6	.5	2.1
10MAR1981	1016	2.0	6.0	4.0	.2	.3	--
13MAR1981	0905	2.0	6.0	5.0	.3	.3	1.9
14MAR1981	0840	3.0	6.0	5.0	.7	.4	2.2
15MAR1981	0830	3.0	6.0	5.0	.2	-.1	1.7
16MAR1981	1005	2.0	6.0	5.0	.3	.2	1.7
18MAR1981	0705	2.0	5.0	4.0	.5	.2	--
26MAR1981	1530	3.0	6.0	4.0	.5	.4	--
27MAR1981	0905	2.0	6.0	5.0	.5	.4	--
28MAR1981	0910	2.0	5.0	5.0	.3	.1	--
31MAR1981	1110	.0	2.0	1.0	1.2	1.1	--
05APR1981	1530	.0	2.0	1.0	6.3	6.7	--
10APR1981	0820	.0	3.0	2.0	4.1	3.6	--
12APR1981	1215	.0	3.0	1.0	3.4	3.2	--
12APR1981	1525	.0	2.0	1.0	4.7	4.9	--
15APR1981	0905	.0	3.0	.0	2.9	2.2	--
18APR1981	1140	.0	2.0	.0	5.7	6.1	--
21APR1981	0930	.0	3.0	2.0	2.5	2.0	--
24APR1981	0840	.0	3.0	1.0	3.5	3.5	--
25APR1981	1550	.0	3.0	2.0	3.4	3.2	--
29APR1981	1205	.0	3.0	2.0	6.5	7.3	--
30APR1981	0830	.0	3.0	1.0	5.8	5.7	--
07MAY1981	0840	.0	5.0	4.0	3.6	4.6	--
08MAY1981	1100	2.0	5.0	4.0	5.4	5.4	--
11MAY1981	--	3.0	6.0	4.0	9.4	10.2	--
13MAY1981	0935	.0	3.0	1.0	7.5	6.9	--
16MAY1981	1030	.0	2.0	1.0	9.2	9.3	--
20MAY1981	1205	2.0	4.0	3.0	6.1	5.6	--
26MAY1981	1205	4.0	6.0	4.0	11.1	11.8	--
27MAY1981	0755	3.0	6.0	5.0	11.3	11.4	--
28MAY1981	0750	4.0	6.0	5.0	12.0	12.4	--
29MAY1981	0715	4.0	7.0	5.0	12.4	12.7	--
31MAY1981	1530	4.0	7.0	6.0	11.7	12.1	--

Table 3.--Soil moisture and soil temperature--Continued

C-2. Woods Lake - Station WH20--Continued

		SOIL MOISTURE, IN CENTIBARS OF MOISTURE TENSION			SOIL TEMPERATURE, IN DEGREES CELSIUS		
DATE	TIME	A-PROBE	B-PROBE	C-PROBE	O-PROBE	A-PROBE	C-PROBE
03JUN1981	0600	6.0	8.0	7.0	10.8	10.9	--
04JUN1981	1210	6.0	8.0	7.0	11.6	12.2	--
05JUN1981	0830	6.0	8.0	7.0	11.8	12.1	--
07JUN1981	--	4.0	7.0	6.0	11.7	11.8	--
09JUN1981	--	4.0	6.0	6.0	11.8	12.2	--
10JUN1981	0720	2.0	5.0	4.0	10.9	10.7	--
11JUN1981	0640	2.0	5.0	4.0	10.7	10.6	--
24JUN1981	0855	.0	3.0	2.0	11.5	11.1	--
25JUN1981	1110	2.0	4.0	3.0	12.2	12.6	--
26JUN1981	1600	.0	3.0	2.0	11.7	11.5	--
27JUN1981	0835	.0	3.0	2.0	10.5	10.2	--
01JUL1981	0800	4.0	7.0	7.0	14.2	14.5	--
03JUL1981	1020	6.0	8.0	7.0	14.7	15.0	--
06JUL1981	1110	4.0	7.0	6.0	15.3	15.7	--
08JUL1981	0625	6.0	9.0	6.0	16.0	16.3	--
10JUL1981	0820	5.0	9.0	8.0	16.8	16.9	--
20JUL1981	1350	11.0	17.0	16.0	14.8	15.5	--
22JUL1981	0720	.0	3.0	2.0	15.5	15.3	--
25JUL1981	1110	3.0	6.0	5.0	13.7	14.0	--
27JUL1981	1430	4.0	6.0	6.0	14.6	14.8	--
29JUL1981	1505	.0	3.0	2.0	13.1	13.0	--
30JUL1981	1305	.0	4.0	3.0	17.3	12.5	--
04AUG1981	1125	5.0	7.0	6.0	15.2	15.7	--
05AUG1981	1440	4.0	7.0	6.0	15.7	16.1	--
06AUG1981	0745	3.0	6.0	6.0	14.8	14.6	--
08AUG1981	1245	3.0	7.0	7.0	14.7	14.8	--
09AUG1981	1125	.0	3.0	2.0	15.0	15.4	--
10AUG1981	1130	.0	3.0	2.0	--	--	--
12AUG1981	0715	.0	3.0	2.0	15.4	15.4	--
13AUG1981	1040	1.0	3.0	3.0	14.5	14.4	--
14AUG1981	0905	.0	4.0	3.0	13.6	13.1	--
16AUG1981	1320	.0	2.0	1.0	14.8	14.8	--
17AUG1981	0800	.0	3.0	2.0	12.7	12.1	--
19AUG1981	1440	2.0	5.0	4.0	12.5	12.8	--
24AUG1981	1505	4.0	8.0	7.0	14.1	14.3	--
26AUG1981	0830	4.0	8.0	7.0	12.4	11.9	--
27AUG1981	1455	4.0	9.0	8.0	12.7	12.8	--
28AUG1981	0905	5.0	9.0	8.0	12.5	12.3	--
29AUG1981	1220	8.0	10.0	8.0	13.8	14.2	--
01SEP1981	1320	8.0	10.0	9.0	14.8	15.2	--
02SEP1981	1020	9.0	10.0	10.0	15.0	15.2	--
03SEP1981	1235	2.0	8.0	8.0	14.5	14.6	--
05SEP1981	1040	5.0	8.0	7.0	13.9	13.9	--
08SEP1981	1205	8.0	10.0	8.0	15.0	15.2	--
09SEP1981	0825	.0	3.0	2.0	13.8	13.2	--
10SEP1981	1425	1.0	4.0	3.0	11.6	11.4	--
11SEP1981	1145	.0	3.0	2.0	11.8	11.7	--
13SEP1981	1045	.0	4.0	3.0	12.3	12.2	--
14SEP1981	0910	4.0	8.0	7.0	13.4	13.8	--
22SEP1981	1120	.0	2.0	1.0	--	--	--
30SEP1981	1000	.0	4.0	3.0	--	--	--

Table 3.--Soil moisture and soil temperature--Continued

C-3. Woods Lake - Station WH30

LOCATION.--Lat 43°52'03", long 75°57'06", Herkimer County, Hydrologic Unit 04150101, 720 ft (220 m) east from midway along the northwest shore of Woods Lake, 50 ft (15 m) south of tributary, and 4.3 mi (6.9 km) northeast of Big Moose.

SOIL PROFILE.--Haplaquod Spodosol. Horizon thickness: 01 horizon, approximately 8.3-9.8 in. (21-25 cm); 02 horizon, approximately 0-8.2 in. (0-21 cm); A2 horizon, 0-1.2 in. (0-3 cm); B horizon, approximately 11.8-15.7 in. (30-40 cm); C horizon, > 15.7 in. (> 40 cm).

DATUM.--Depth of tensiometer probes below land-surface datum: A probe, 3.9 in. (10 cm); B probe, 9.8 in. (25 cm); C probe, 19.7 in. (50 cm). Elevation of tensiometer gages above land-surface datum: 4.7 in. (12 cm).

PERIOD OF RECORD.--July 9, 1980, to November 5, 1981.

REMARKS.--Hand-dug soil mositure station on midslope of forested deposits of till. Three tensiometers emplaced in uphill soil profile. Station not backfilled, hole covered with plywood.

SOIL MOISTURE, IN CENTIBARS OF MOISTURE TENSION

DATE	TIME	A-PROBE	B-PROBE	C-PROBE
09JUL1980	1100	--	11.0	9.0
11JUL1980	1300	17.0	13.5	10.0
14JUL1980	1200	8.0	12.5	10.0
24JUL1980	0900	--	7.0	4.0
29JUL1980	0900	4.0	--	--
31JUL1980	1500	7.0	8.0	--
01AUG1980	0900	6.0	8.0	6.0
08AUG1980	1300	4.0	9.0	7.0
13AUG1980	1000	3.0	8.0	8.0
26AUG1980	1300	2.0	11.0	11.0
29OCT1980	--	.0	5.0	2.0
07JAN1981	--	6.5	28.0	7.0
08JAN1981	--	6.5	28.0	7.0
03FEB1981	--	8.0	6.0	3.0
17MAR1981	--	8.0	11.0	.0
31MAR1981	--	2.0	2.0	1.0
29APR1981	--	7.0	8.0	6.0
02JUN1981	--	9.0	16.0	8.0
30JUN1981	--	.0	.0	7.0
15JUL1981	--	10.0	11.0	11.0
26JUL1981	1100	7.0	--	7.5
27JUL1981	1100	7.0	8.5	6.0
30JUL1981	--	5.0	5.0	2.5
07AUG1981	0800	9.5	10.0	7.0
07AUG1981	0900	9.0	9.9	8.0
07AUG1981	1300	9.0	9.9	8.0
13AUG1981	0900	5.5	6.1	5.8
20AUG1981	1500	8.0	8.0	5.0
20AUG1981	1600	8.0	8.0	6.5
28AUG1981	1000	9.0	10.0	8.5
15SEP1981	1200	6.0	7.5	6.0
30SEP1981	1500	6.0	6.0	5.7
02OCT1981	1300	6.5	7.0	6.0
13OCT1981	1600	7.8	7.0	6.0
14OCT1981	1200	5.5	6.0	5.5
04NOV1981	1200	6.5	6.5	6.0

TABLE 4

WATER EQUIVALENT AND DEPTH OF SNOWPACK

A. Panther Lake basin. 144

B. Sagamore Lake basin 145

C. Woods Lake basin. 146

Table 4.--Water equivalent and depth of snowpack.

A. PANTHER LAKE BASIN

[Means and standard deviations for three cores at each site are in inches.]

Site	Cover[1] type	02-13-80 Depth of snowpack	02-13-80 Water equivalent	02-27-80 Depth of snowpack	02-27-80 Water equivalent	03-24-80 Depth of snowpack	03-24-80 Water equivalent
1	D	10.7±0.6	2.1±0.0	16.0±1.0	2.9±0.4	10.7±3.5	3.6±1.4
2	D	8.7± .6	1.3± .2	14.3±1.5	2.6± .0	9.0±1.0	2.8± .3
3	D	9.0±1.0	1.7± .3	15.7±1.2	2.5± .0	11.7±2.1	4.1± .6
4	D	9.3± .6	1.8± .2	14.7± .6	2.9± .3	12.3±3.2	4.1±1.1
5	D	8.7± .6	1.3± .2	13.7± .6	2.4± .2	11.7±2.5	3.5± .8
6	D	8.3± .6	1.2± .1	11.7±1.2	2.0± .3	9.3±3.0	3.0± .7
7	D	8.7± .6	1.2± .1	14.0±2.0	2.4± .4	10.3±2.1	3.3± .7
8	D	8.3±1.5	1.3± .2	12.3±2.5	2.2± .7	11.3±2.3	3.1± .8
9	C	5.7± .6	.8± .0	9.3± .6	1.7± .2	6.0±2.0	2.0± .9
10	L	6.0± .0	1.2± .1	10.7± .6	2.0± .3	---	---
11	L	6.0± .0	1.0± .1	11.0± .0	2.3± .5	---	---
12	C	8.8±1.0	1.3± .2	13.7±1.2	2.3± .2	11.0±1.7	3.8± .8
13	D	8.7± .6	1.3± .1	13.7± .6	2.3± .2	10.3±1.5	3.2± .3
14	D	9.3±1.2	1.4± .2	15.0±1.7	2.6± .3	10.7±2.5	3.8± .7
15	D	10.0± .9	1.6± .2	14.7±1.2	2.7± .3	11.7±3.5	3.5±1.2
16	C	8.3± .6	1.2± .1	13.0±1.0	2.4± .4	11.7±1.2	3.4± .6
17	L	6.7± .6	.9± .1	10.7± .6	2.0± .1	---	---
18	L	5.0± .0	.7± .1	9.0±1.0	1.7± .1	---	---
19	L	5.3± .6	.7± .1	10.7± .6	1.7± .4	---	---
20	L	8.0± .0	1.4± .0	14.3± .6	2.7± .1	---	---
Average		8.0±1.7	1.3± .4	12.9±2.3	2.3± .4	10.5±2.5	3.4± .9

[1] L, lake; D, deciduous forest; and C, coniferous forest.

Table 4.--Water equivalent and depth of snowpack--continued.

B. SAGAMORE LAKE BASIN

[Means and standard deviations for three cores at each site are in inches.]

Site	Cover[1] type	02-12-80 Depth of snowpack	02-12-80 Water equivalent	02-26-80 Depth of snowpack	02-26-80 Water equivalent	03-24-80 Depth of snowpack	03-24-80 Water equivalent
1	D	6.0±1.0	0.8±0.2	11.3±1.2	1.9±0.2	10.7±1.5	3.1±0.4
2	D	6.3± .6	.9± .1	12.0± .0	1.5± .3	8.3± .6	2.2± .2
3	D	4.0± .0	.5± .0	9.0±1.0	1.1± .2	7.0±1.7	2.0± .9
4	D	5.3±1.5	.8± .4	11.7±3.0	1.7± .7	10.0±2.6	3.1±1.0
5	D	6.0±1.0	.7± .2	10.3± .6	1.5± .2	7.0±2.6	1.9± .7
6	C	5.7± .6	.7± .1	12.0±1.7	1.8± .6	11.3±1.2	3.2± .2
7	L	4.0±1.0	.8± .4	7.3±1.2	1.6± .3	---	---
8	L	2.7±1.2	.4± .1	7.0±1.0	1.4± .4	---	---
9	D	6.0±1.7	.9± .3	10.3±1.5	1.7± .5	6.7±3.8	1.7±1.0
10	D	6.3± .6	.8± .1	10.7± .6	1.9± .4	9.3± .6	2.7± .3
11	D	6.8± .8	.7± .2	8.3±1.2	1.5± .4	5.0±1.0	1.3± .2
12	D	5.7± .6	.8± .1	10.0±1.0	1.8± .2	5.0+1.0	1.4+ .1
13	C	6.0± .0	.8± .1	11.7± .6	1.9± .5	11.7± .6	3.3± .1
14	C	5.7± .6	.8± .0	10.7±2.3	1.7± .1	6.3± .6	1.8± .2
15	D	6.3±1.0	.8± .2	9.3± .6	1.8± .4	4.7± .6	1.5± .3
16	D	7.2±1.0	.8± .2	11.3±1.2	2.0± .3	8.3±3.2	2.9±1.2
17	D	5.5± .9	.8± .3	9.7±1.5	1.7± .2	6.0±1.7	1.9± .6
18	D	6.0± .0	.7± .1	9.7± .6	1.5± .2	8.0±2.0	2.4±1.1
19	C	5.7± .6	.8± .2	11.0±1.0	1.7± .4	7.7± .6	2.4± .2
20	L	5.0± .0	.6± .0	9.0± .0	1.1± .1	---	---
21	L	4.3±1.2	.5± .3	8.0± .0	1.5± .4	---	---
22	L	3.3± .6	.5± .2	7.3± .6	1.7± .6	---	---
23	L	5.3± .6	.6± .1	9.0± .0	1.3± .0	---	---
Average		5.4±1.3	.7± .2	9.8±1.8	1.6± .4	7.8±2.6	2.3± .8

[1] L, lake; D, deciduous forest; and C, coniferous forest.

Table 4.--Water equivalent and depth of snowpack--continued.

C. WOODS LAKE BASIN

[Means and standard deviations for three cores at each site are in inches.]

Site	Cover[1] type	02-14-80 Depth of snowpack	02-14-80 Water equivalent	02-28-80 Depth of snowpack	02-28-80 Water equivalent	03-23-80 Depth of snowpack	03-23-80 Water equivalent
1	O	16.7±2.1	3.7±0.4	22.7±2.5	4.5±0.2	20.3±0.6	6.4±0.4
2	D	10.3±1.2	1.8± .4	18.3±2.1	3.2± .4	13.7±1.5	4.2± .5
3	D	10.2± .3	2.1± .2	16.3± .6	2.7± .2	12.7±3.5	3.9±1.4
4	D	9.8± .3	1.6± .2	16.3±1.2	2.9± .2	12.7±1.5	3.3± .6
5	D	11.0± .0	1.7± .2	19.0±1.0	2.8± .3	15.3±3.8	4.6±1.4
6	D	10.3± .6	1.5± .2	18.3± .6	2.9± .0	12.3±1.5	3.9± .4
7	D	10.0±1.0	1.7± .4	17.3± .6	2.6± .2	13.3±1.5	4.3± .5
8	O	15.0±2.0	2.5± .9	21.7± .6	3.2± .7	18.7±2.5	5.5± .6
9	D	10.3± .6	2.1± .2	18.3± .6	3.0± .3	14.3± .6	3.8±1.0
10	D	9.8± .8	1.6± .3	18.0±1.0	2.9± .2	15.3±2.5	4.5± .8
11	D	10.7± .6	1.7± .0	17.3± .6	2.5± .2	12.3±5.5	3.4±1.4
12	L	8.0± .0	1.2± .0	14.3± .6	3.4±1.1	---	---
13	L	8.0± .0	1.2± .0	15.0± .0	3.5± .9	---	---
14	L	8.0± .0	1.3± .1	15.0±1.0	1.7± .4	---	---
15	L	7.0± .0	1.0± .0	14.7± .6	2.1± .4	---	---
16	D	10.3±1.2	1.7± .2	19.0±1.0	2.8± .3	14.7±1.5	4.4± .4
17	D	11.3±1.5	1.8± .5	18.7±1.2	2.9± .3	12.0±1.0	3.8± .4
18	D	10.3±2.9	1.6± .6	15.7± .6	2.3± .2	11.0±2.6	3.1±1.6
19	D	9.0± .0	1.6± .2	18.3±1.2	2.9± .4	14.7±1.2	4.8± .4
20	D	9.7± .6	1.5± .2	17.3±3.0	2.7± .5	12.5±2.1	3.9± .3
Average		10.3±2.4	1.7± .6	17.6±2.4	2.9± .7	14.1±3.2	4.2±1.1

[1] O, open; L, lake, and D, deciduous forest.