PHYSICAL-PROPERTY, WATER-QUALITY, PLANKTON, AND BOTTOM-MATERIAL DATA FOR DEVILS LAKE AND EAST DEVILS LAKE, NORTH DAKOTA, SEPTEMBER 1988 THROUGH OCTOBER 1990

By Steven K. Sando and Bradley A. Sether

U.S. GEOLOGICAL SURVEY

Open-File Report 93-66

Prepared in cooperation with the

NORTH DAKOTA GAME AND FISH DEPARTMENT

Bismarck, North Dakota

1993

U.S. DEPARTMENT OF THE INTERIOR

BRUCE BABBITT, Secretary

U.S. Geological Survey

Dallas L. Peck, Director

Any use of trade, product, or firm names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

For additional information
write to:

District Chief
U.S. Geological Survey
Water Resources Division
821 East Interstate Avenue
Bismarck, ND 58501-1199

Copies of this report can be
purchased from:

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

CONTENTS

ILLUSTRATION

TABLES

CONVERSION FACTORS

Multiply	By	To obtain
centimeter (cm)	0.3937	inch
foot (ft)	0.3048	meter
inch (in.)	25.4	millimeter
liter (L)	0.2642	gallon
micrometer (µm)	0.00003937	inch
miles (mi)	1.609	kilometer
milliliter (mL)	0.03381	ounce
millimeter (mm)	0.03947	inch
nanometer (nm)	3.937×10^{-8}	inch

To convert degrees Celsius (°C) to degrees Fahrenheit (°F), use the following formula: °F = 1.8°C+32.

Micrograms per liter (µg/L) is a unit expressing the concentration of a chemical constituent in solution as weight (micrograms) of solute per unit volume (liter) of water.

Microsiemens per centimeter at 25 degrees Celsius (µS/cm) replaces micromhos per centimeter at 25 degrees Celsius used for specific conductance in older reports. The two units are equivalent.

Milligrams per kilogram (mg/kg) is a unit expressing the concentration of a chemical constituent in solid material as weight (milligrams) of chemical constituent per weight (kilogram) of dry solid material; 1 mg/kg is approximately equal to 1 ppm (part per million).

Milligrams per liter (mg/L) is a unit expressing the concentration of a chemical constituent in solution as weight (milligrams) of solute per unit volume (liter) of water; 1 mg/L equals 1,000 µg/L.

PHYSICAL-PROPERTY, WATER-QUALITY, PLANKTON, AND BOTTOM-MATERIAL DATA FOR DEVILS LAKE AND EAST DEVILS LAKE, NORTH DAKOTA, SEPTEMBER 1988 THROUGH OCTOBER 1990

By Steven K. Sando and Bradley A. Sether

ABSTRACT

Physical-properties were measured and water-quality, plankton, and bottom-material samples were collected at 10 sites in Devils Lake and East Devils Lake during September 1988 through October 1990 to study water-quality variability and water-quality and plankton relations in Devils Lake and East Devils Lake.

Physical properties measured include specific conductance, pH, water temperature, dissolved-oxygen concentration, water transparency, and light transmission. Water-quality samples were analyzed for concentrations of major ions, selected nutrients, and selected trace elements. Plankton samples were examined for identification and enumeration of phytoplankton and zooplankton species, and bottom-material samples were analyzed for concentrations of selected nutrients. Data-collection procedures are discussed and the data are presented in tabular form.

INTRODUCTION

In 1988, the U.S. Geological Survey, in cooperation with the North Dakota Game and Fish Department, began a study of water-quality variability and water-quality and plankton relations in Devils Lake and East Devils Lake in order to provide information to aid in evaluating Devils Lake management proposals. The purpose of this report is to present physical-property, water-quality, phytoplankton, zooplankton, and bottom-material data collected during the study.

DATA COLLECTION

Physical properties (specific conductance, pH, temperature, dissolved oxygen, water transparency, and light transmission) were measured and water-quality samples were collected at 10 sites in Devils Lake and East Devils Lake (fig. 1) during September 1988 through October 1990.

During each site visit, specific conductance, pH, and dissolved oxygen were measured electrometrically using a Hydrolab multimeter and temperature was measured using a thermistor. These measurements were made at 2 to 13 approximately equally spaced depths through the entire water column (table 1).

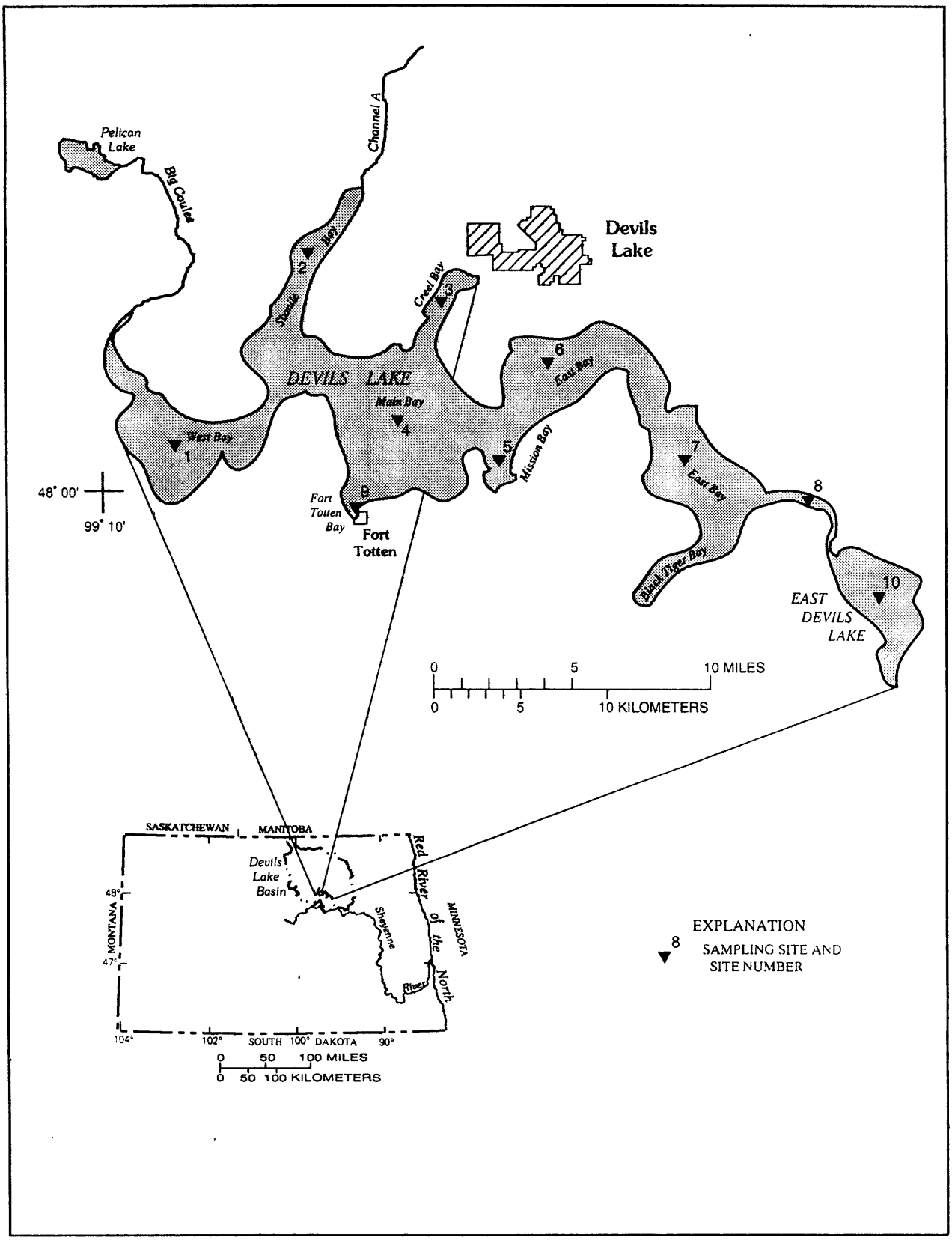

Figure 1.--Location of Devils Lake and East Devils Lake in northeastern North Dakota.

Measurements of water transparency and light transmission were used to determine the euphotic and aphotic zones in the lakes. The euphotic zone is the part of a lake where light penetration is effective and photosynthesis occurs. The aphotic zone is the part of a lake where light penetration is negligible and photosynthesis does not occur. Water transparency (table 1) was measured with a 20-cm-diameter Secchi disk by lowering and raising the disk to determine the depth where it was no longer visible. Light transmission (table 2) was measured in the 400-700-nm wavelength band (photosynthetically active radiation) using a LI-COR model 1853 photometer or a LI-COR model 1000 data logger, a model LI-190SB quantum sensor, and a LI-192SB underwater quantum sensor. Light transmission through the water column was determined by taking surface radiation measurements and corresponding subsurface measurements at 1-ft intervals to a depth where radiation was 1 percent of the surface value. The depth where radiation was 1 percent of the surface value was used to define the lower boundary of the euphotic zone. When problems were encountered in the operation of the LI-COR photometer, the Secchi disk transparency value was doubled to define the lower boundary of the euphotic zone.

Water samples were collected from the euphotic zone for analysis of chemical constituents (table 3) and identification and enumeration of phytoplankton (table 4) using either a Kemmerer sampler or a Van Dorn bottle. When the depth of the euphotic zone was greater than the length of the sampler (about 1.5 ft), samples were collected from three depths (approximately corresponding to the top, middle, and bottom of the euphotic zone) and composited in a churn splitter.

A 250-mL sample was drawn from the churn splitter and collected in a field-rinsed white polyethylene bottle for analysis of specific conductance, pH, alkalinity, and dissolved solids. Another 250-mL sample was drawn from the churn splitter and collected in a field-rinsed brown polyethylene bottle for analysis of selected nutrients. This sample was preserved by adding 1 mL of mercuric chloride and the bottle was chilled.

A 100-mL sample (a smaller volume was used during periods of large algae concentrations) was drawn from the churn splitter for analysis of chlorophyll a and b. The sample was filtered through a 0.45-µm glass-fiber filter with suction, and the filter was folded onto itself and placed in a petri dish. The petri dish was sealed with vinyl electrical tape and frozen.

The remaining water in the churn splitter was filtered. A peristaltic pump with sample-rinsed silicone rubber tubing was used to deliver water from the churn splitter to either a 142-mm Geotech plate filter or a Geotech disposable cartridge filter. Both filters were equipped with 0.45-µm membranes. A minimum of 125 mL of water was filtered through the plate filter, and a minimum of 500 mL of water was filtered through the cartridge filter before water was collected in the sample bottles.

A 250-mL sample was collected in a field-rinsed white polyethylene bottle for analysis of major dissolved anions. A 500-mL sample was collected in a field-rinsed, acid-rinsed, white polyethylene bottle for analysis of major dissolved cations and selected dissolved trace elements. The sample was

preserved by adding 2 mL of nitric acid. A 250-mL sample was collected in a field-rinsed brown polyethylene bottle for analysis of selected dissolved nutrients. This sample was preserved by adding 1 mL of mercuric chloride and the bottle was chilled. A 250-mL sample was collected in a field-rinsed, acid-rinsed glass bottle for analysis of dissolved mercury. This sample was preserved by adding 10 mL of potassium dichromate.

During the September and October 1990 sampling periods, water samples also were collected from the aphotic zone for analysis of selected constituents. At sites 4, 6, and 10, separate samples were collected from three to six approximately equally spaced depths for analysis of major dissolved ions and selected dissolved and total nutrients. At the other sites, samples were collected from three depths (approximately corresponding to the top, middle, and bottom of the aphotic zone) at each site and composited for analysis of selected dissolved and total nutrients. The water samples were taken from the churn splitter, processed, and preserved in the same manner as the samples from the euphotic zone.

Zooplankton samples (table 5) were collected using a Wisconsin-type plankton net (mesh size 80 µm) hauled through the entire water column. Two hauls were made at each site. After each haul, the sample contained within the net was emptied into a 250-mL polyethylene sample bottle. Soda water was added to narcotize the organisms prior to addition of about 20 mL of 40-percent formalin as a preservative.

Bottom-material samples (table 6) for analysis of nutrient concentrations were collected using a stainless-steel Ponar grab sampler. The bottom material was extruded from the sampler into a 500-mL wide-mouth baked glass jar with a Teflon lid. The samples were chilled. Samples were collected at each site during October 24-25 or November 7-8, 1989; May 8-9, 1990; August 7-8, 1990; and October 24-25, 1990.

Water-quality samples were analyzed by the U.S. Geological Survey National Water Quality Laboratory in Arvada, Colo. Properties and constituents analyzed, minimum detection limits, and analytical methods for the water-quality samples are shown in the following table. Analytical techniques used for determination of chemical constituents are described in Fishman and Friedman (1989). Phytoplankton and zooplankton were identified and enumerated by the Richard Dufford Laboratory, Fort Collins, Colo. Bottom-material samples also were analyzed by the U.S. Geological Survey National Water-Quality Laboratory in Arvada, Colo. Analytical techniques used for determination of chemical constituents in bottom-material samples are described in Fishman and Friedman (1989).

REFERENCE CITED

Fishman, M.J., and Friedman, L.C., eds., 1989, Methods for determination of inorganic substances in water and fluvial sediments: U.S. Geological Survey Techniques of Water-Resources Investigations, Book 5, Chapter A1, 545 p.

Water-quality properties and constituents, minimum detection limits, and analytical methods for water samples collected from Devils Lake and East Devils Lake sampling sites

[µS/cm at 25°C, microsiemens per centimeter at 25 degrees Celsius; mg/L, milligrams per liter; µg/L, micrograms per liter]

Property or constituent	Minimum detection limit	Analytical method
Specific conductance (laboratory), in µS/cm at 25°C	1	Automated electrometry
pH (laboratory), in standard units	.1	Auto glass electrode electrometry
Total alkalinity (laboratory), in mg/L as $CaCO_3$	1	Electrometric titrimetry
Dissolved solids, residue on evaporation at 180°C	1	Gravimetry
Major ions		
Dissolved calcium, in mg/L as Ca	.1	Direct atomic absorption
Dissolved magnesium, in mg/L as Mg	.1	Direct atomic absorption
Dissolved sodium, in mg/L as Na	.1	Direct atomic absorption
Dissolved potassium, in mg/L as K		
Dissolved sulfate, in mg/L as SO_4	.1	Ion chromatography
Dissolved chloride, in mg/L as Cl	.1	Ion chromatography
Dissolved fluoride, in mg/L as F	.1	Ion chromatography
Dissolved silica, in mg/L as SiO_2	.1	Auto molybdate blue colorimetry
Nutrients		
Dissolved nitrite (NO_2), in mg/L as N	.01	Auto diazotization colorimetry
Total nitrite (NO_2), in mg/L as N	.01	Auto diazotization colorimetry
Dissolved nitrite plus nitrate (NO_2+NO_3), in mg/L as N	.1	Auto diazotization colorimetry
Total nitrite plus nitrate (NO_2+NO_3), in mg/L as N	.1	Auto cadmium-reduced colorimetry
Dissolved ammonia, in mg/L as N	.01	Auto colorimetry
Total ammonia, in mg/L as N	.01	Auto colorimetry
Total ammonia plus organic nitrogen, in mg/L as N	.2	Block digest and auto colorimetry
Dissolved phosphorus, in mg/L as P	.01	Auto phosphomolybdate colorimetry
Total phosphorus, in mg/L as P	.01	Auto phosphomolybdate colorimetry
Dissolved orthophosphate, in mg/L as P	.01	Auto phosphomolybdate colorimetry
Total orthophosphate, in mg/L as P	.01	Auto phosphomolybdate colorimetry
Trace elements		
Dissolved arsenic, in µg/L as As	1	Auto hydride atomic absorption
Dissolved boron, in µg/L as B	10	Direct deductively coupled plasma atomic emission
Dissolved lead, in µg/L as Pb	1	Graphite furnace atomic absorption
Dissolved lithium, in µg/L as Li	10	Direct atomic absorption
Dissolved manganese, in µg/L as Mn	10	Direct atomic absorption
Dissolved mercury, in µg/L Hg	0.1	Auto flameless atomic absorption
Dissolved molybdenum, in µg/L Mo	1	Atomic absorption, chelation extraction
Dissolved selenium, in µg/L as Se	1	Auto hydride atomic absorption
Dissolved strontium, in µg/L as Sr	10	Direct atomic absorption
Biological constituents		
Chlorophyll a, in µg/L	.1	Chromatography and fluorometry
Chlorophyll b, in µg/L	.1	Chromatography and fluorometry

PAGE 7 FOLLOWS

Table 1.--Depth profiles of physical properties at Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990

[--, no data]

Date	Sampling depth (feet)	Specific conductance (microsiemens per centimeter at 25 degrees Celsius)	pH (standard units)	Temperature, water (degrees Celsius)	Oxygen, dissolved (milligrams per liter)	Oxygen, dissolved (percent saturation)
Site 1, Devils Lake, West Bay						
Sept. 21, 1988	(Secchi disk transparency, 7.0 inches; lake depth at site, 6.6 feet)					
	0.0	3,920	--	10.0	10.0	--
	1.6	3,920	--	10.0	9.8	--
	3.3	3,910	--	10.0	9.7	--
	6.6	3,920	--	10.0	9.6	--
Feb. 23, 1989	(Secchi disk transparency, 48.0 inches; lake depth at site, 8.2 feet; ice thickness, 2.0 feet)					
	2.0	5,070	8.6	0.5	9.1	65
	4.9	5,250	8.4	.5	7.2	52
	8.2	5,410	8.2	1.5	3.3	25
May 9, 1989	(Secchi disk transparency, 10.0 inches; lake depth at site, 7.5 feet)					
	0.0	3,580	8.7	11.0	12.7	--
	1.0	3,580	8.7	11.0	12.7	--
	2.0	3,580	8.7	11.0	12.7	--
	3.0	3,580	8.7	11.0	12.7	--
	4.0	3,590	8.7	11.0	12.8	--
	5.0	3,580	8.7	11.0	12.8	--
	7.5	3,590	8.6	11.0	13.1	--
June 21, 1989	(Secchi disk transparency, 8.0 inches; lake depth at site, 6.9 feet)					
	0.0	3,860	8.2	19.5	7.9	86
	1.5	3,860	8.2	19.5	7.9	86
	3.0	3,860	8.2	19.5	8.0	87
	4.5	3,860	8.3	19.5	8.2	90
	6.0	3,860	8.2	19.5	8.7	95
Aug. 15, 1989	(Secchi disk transparency, 12.0 inches; lake depth at site, 6.5 feet)					
	0.0	4,420	8.7	21.5	11.7	132
	1.0	4,420	8.8	22.0	12.9	147
	2.0	4,440	8.8	22.0	12.2	140
	3.0	4,430	8.7	21.5	11.2	126
	4.0	4,440	8.7	21.0	9.2	103
	5.0	4,450	8.7	20.5	8.4	93
	6.0	4,440	8.7	20.5	7.8	86
	6.5	4,440	8.7	20.5	7.1	79
Oct. 25, 1989	(Secchi disk transparency, 9.0 inches; lake depth at site, 5.8 feet)					
	0.0	4,750	8.6	8.5	12.3	107
	1.0	4,770	8.6	8.5	12.2	106
	2.0	4,780	8.6	8.5	12.2	106
	3.0	4,780	8.5	8.5	12.2	106
	4.0	4,790	8.5	8.5	12.3	107
	5.8	4,810	8.5	9.0	12.5	109

Table 1.--Depth profiles of physical properties at Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Date	Sampling depth (feet)	Specific conductance (microsiemens per centimeter at 25 degrees Celsius)	pH (standard units)	Temperature, water (degrees Celsius)	Oxygen, dissolved (milligrams per liter)	Oxygen, dissolved (percent saturation)
Site 1, Devils Lake, West Bay--Continued						
Feb. 6, 1990	(Secchi disk transparency, 18.0 inches; lake depth at site, 5.4 feet; ice thickness, 2.4 feet)					
	2.4	7,580	8.8	0.5	13.1	93
	3.5	7,530	8.9	0	13.0	92
	4.6	7,540	8.8	1.0	4.2	30
May 9, 1990	(Secchi disk transparency, 4.0 inches; lake depth at site, 6.6 feet)					
	0.0	3,900	8.7	10.0	10.6	94
	1.0	3,920	8.7	10.0	10.4	92
	2.0	3,910	8.7	10.0	10.4	92
	3.0	3,920	8.7	10.0	10.4	92
	4.0	3,910	8.7	10.0	10.5	93
	5.0	3,910	8.7	10.0	10.4	92
	6.0	3,900	8.7	10.0	10.6	94
Aug. 7, 1990	(Secchi disk transparency, 6.0 inches; lake depth at site, 5.6 feet)					
	0.0	4,880	8.5	22.5	10.4	120
	2.0	4,880	8.5	22.0	10.1	116
	3.0	4,880	8.5	22.0	10.1	116
	4.0	4,880	8.5	22.0	10.0	115
	5.0	4,880	8.5	22.0	10.0	115
Sept. 11, 1990	(Secchi disk transparency, 8.4 inches; lake depth at site, 5.0 feet)					
	0.0	5,410	8.8	20.5	12.8	145
	2.0	5,410	8.8	21.0	12.6	143
	3.0	5,410	8.7	20.0	11.3	126
	4.0	5,410	8.7	19.5	10.0	110
	5.0	5,400	8.6	18.5	5.6	61
Oct. 24, 1990	(Secchi disk transparency, 3.6 inches; lake depth at site, 4.7 feet)					
	0.0	--	8.3	4.5	12.3	--
	2.0	--	8.3	4.0	12.2	--
	3.0	--	8.3	4.0	12.3	--
	4.5	--	8.3	4.0	12.3	--
Site 2, Devils Lake, Sixmile Bay						
Sept. 21, 1988	(Secchi disk transparency, 56.0 inches; lake depth at site, 14.8 feet)					
	0.0	3,910	--	11.0	9.6	--
	1.6	3,920	--	11.0	9.5	--
	3.3	3,910	--	11.0	9.3	--
	6.6	3,910	--	11.0	9.3	--
	9.8	3,910	--	11.0	9.3	--
	13.1	3,910	--	11.0	9.2	--
	14.8	3,910	--	11.0	9.2	--

Table 1.--Depth profiles of physical properties at Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Date	Sampling depth (feet)	Specific conductance (microsiemens per centimeter at 25 degrees Celsius)	pH (standard units)	Temperature, water (degrees Celsius)	Oxygen, dissolved (milligrams per liter)	Oxygen, dissolved (percent saturation)
			Site 2, Devils Lake, Sixmile Bay--Continued			
Jan. 30, 1989	(Secchi disk transparency, 156 inches; lake depth at site, 13.8 feet; ice thickness, 1.6 feet)					
	4.9	4,340	8.8	0.0	11.7	83
	6.6	4,380	8.7	.5	9.7	69
	9.8	4,380	8.7	.5	9.6	68
	13.8	4,410	8.5	1.5	8.3	60
May 9, 1989	(Secchi disk transparency, 28.0 inches; lake depth at site, 15.0 feet)					
	0.0	4,020	8.7	9.5	12.6	--
	3.0	4,020	8.6	9.5	12.7	--
	6.0	4,020	8.6	9.5	12.6	--
	9.0	4,020	8.6	9.5	12.6	--
	12.0	4,010	8.6	9.0	12.6	--
	15.0	4,030	8.5	9.0	11.1	--
June 21, 1989	(Secchi disk transparency, 42.0 inches; lake depth at site, 14.3 feet)					
	0.0	4,070	8.4	19.5	8.7	95
	2.0	4,070	8.4	19.5	8.7	95
	5.0	4,080	8.4	19.5	8.8	96
	8.0	4,080	8.4	19.5	9.0	98
	11.0	4,080	8.4	19.5	9.1	99
	14.3	4,090	8.4	19.5	9.2	100
Aug. 15, 1989	(Secchi disk transparency, 26.0 inches; lake depth at site, 13.6 feet)					
	0.0	4,310	8.6	22.5	12.4	143
	3.0	4,310	8.7	22.5	12.6	145
	6.0	4,310	8.7	21.5	10.3	117
	9.0	4,310	8.7	21.5	8.9	100
	12.0	4,310	8.7	21.5	8.5	96
	13.6	4,310	8.7	21.5	7.8	88
Oct. 25, 1989	(Secchi disk transparency, 43.0 inches; lake depth at site, 13.0 feet)					
	0.0	4,450	8.7	8.0	11.7	100
	3.0	4,460	8.7	8.0	11.9	101
	5.0	4,450	8.7	8.0	11.7	100
	7.0	4,460	8.6	8.0	11.8	100
	9.0	4,460	8.6	8.0	11.7	100
	11.0	4,460	8.6	8.0	11.8	101
	13.0	4,470	8.5	8.0	12.1	104
Feb. 6, 1990	(Secchi disk transparency, 70.8 inches; lake depth at site, 13.2 feet; ice thickness, 2.4 feet)					
	2.4	5,170	9.2	0.0	15.8	111
	5.0	5,140	9.3	0	15.9	111
	7.0	5,150	9.3	0	16.0	111
	9.0	5,170	9.3	0	15.6	109
	11.0	5,310	9.2	1.0	10.3	73
	12.1	5,400	9.0	2.0	7.9	58

Table 1.--Depth profiles of physical properties at Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Date	Sampling depth (feet)	Specific conductance (microsiemens per centimeter at 25 degrees Celsius)	pH (standard units)	Temperature, water (degrees Celsius)	Oxygen, dissolved (milligrams per liter)	Oxygen, dissolved (percent saturation)
		Site 2, Devils Lake, Sixmile Bay--Continued				
May 9, 1990	(Secchi disk transparency, 36.0 inches; lake depth at site, 13.0 feet)					
	0.0	4,240	8.7	9.5	11.2	98
	3.0	4,240	8.7	9.5	11.2	98
	6.0	4,250	8.7	9.5	11.3	99
	9.0	4,250	8.7	9.5	11.2	98
	12.5	4,250	8.7	9.5	11.4	100
Aug. 7, 1990	(Secchi disk transparency, 22.8 inches; lake depth at site, 12.4 feet)					
	0.0	4,790	8.5	22.5	9.8	113
	2.0	4,790	8.5	22.5	9.7	112
	4.0	4,790	8.5	22.5	9.7	112
	6.0	4,790	8.4	22.5	9.7	112
	8.0	4,790	8.4	22.5	9.7	112
	10.0	4,790	8.4	22.5	9.6	111
	12.0	4,790	8.4	22.5	9.7	112
Sept. 11, 1990	(Secchi disk transparency, 14.4 inches; lake depth at site, 12.3 feet)					
	0.0	4,980	8.9	21.0	13.4	151
	2.0	4,980	8.9	20.5	12.7	142
	4.0	4,980	8.9	20.5	11.9	133
	6.0	4,980	8.9	20.0	11.1	124
	8.0	4,980	8.9	20.0	11.0	123
	10.0	4,980	8.9	20.0	10.6	118
	12.0	4,980	8.8	20.0	10.1	112
Oct. 24, 1990	(Secchi disk transparency, 34.8 inches; lake depth at site, 11.8 feet)					
	0.0	4,930	8.6	4.5	12.0	96
	2.0	4,930	8.6	4.5	12.1	96
	5.0	4,970	8.6	4.5	12.1	97
	7.0	4,970	8.6	4.5	12.2	97
	9.0	4,970	8.6	4.5	12.2	97
	11.0	4,980	8.6	4.5	12.3	98
		Site 3, Devils Lake, Creel Bay				
Sept 21, 1988	(Secchi disk transparency, 90.0 inches; lake depth at site, 19.7 feet)					
	0.0	3,890	8.8	12.5	9.3	--
	1.6	3,890	8.8	12.5	9.3	--
	3.3	3,890	8.8	12.5	9.3	--
	6.6	3,890	8.8	12.5	9.3	--
	9.8	3,890	8.8	12.5	9.3	--
	13.1	3,890	8.8	12.5	9.3	--
	16.4	3,890	8.8	12.5	9.2	--
	19.7	3,900	8.8	12.5	8.7	--

Table 1.--Depth profiles of physical properties at Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Date	Sampling depth (feet)	Specific conductance (microsiemens per centimeter at 25 degrees Celsius)	pH (standard units)	Temperature, water (degrees Celsius)	Oxygen, dissolved (milligrams per liter)	Oxygen, dissolved (percent saturation)
		Site 3, Devils Lake, Creel Bay--Continued				
Jan. 30, 1989	(Secchi disk transparency, 131 inches; lake depth at site, 19.9 feet; ice thickness, 2.5 feet)					
	4.9	4,220	8.9	0.0	11.9	81
	6.6	4,220	8.9	0	11.8	81
	9.8	4,220	8.9	0	11.8	81
	13.1	4,230	8.8	0	11.8	81
	16.4	4,230	8.7	.5	11.7	81
	19.9	4,300	8.3	1.5	5.7	41
May 8, 1989	(Secchi disk transparency, 43.0 inches; lake depth at site, 20.4 feet)					
	0.0	4,030	8.7	8.0	13.9	--
	1.0	4,030	8.7	8.0	14.2	--
	3.0	4,030	8.7	8.0	14.2	--
	5.0	4,030	8.6	8.0	14.2	--
	8.0	4,030	8.6	8.0	14.2	--
	11.0	4,030	8.6	8.0	14.1	--
	14.0	4,030	8.5	8.0	14.1	--
	17.0	4,030	8.5	7.5	13.5	--
	20.4	4,060	8.3	7.0	13.2	--
June 21, 1989	(Secchi disk transparency, 61.0 inches; lake depth at site, 20.6 feet)					
	0.0	4,120	8.5	19.0	9.4	102
	4.0	4,120	8.5	19.0	9.4	102
	8.0	4,130	8.5	19.0	9.4	102
	12.0	4,120	8.5	19.0	9.4	102
	16.0	4,110	8.5	19.0	9.2	100
	20.0	4,110	8.4	17.5	7.3	77
Aug. 15, 1989	(Secchi disk transparency, 34.0 inches; lake depth at site, 19.6 feet)					
	0.0	4,320	8.6	21.5	8.5	97
	3.0	4,320	8.7	21.5	8.2	93
	6.0	4,320	8.7	22.0	8.1	92
	9.0	4,320	8.7	22.0	8.1	92
	12.0	4,320	8.7	22.0	8.0	91
	15.0	4,320	8.7	21.5	7.5	85
	18.0	4,320	8.7	21.5	7.2	82
	19.6	4,320	8.7	21.5	6.8	77
Oct. 25, 1989	(Secchi disk transparency, 46.0 inches; lake depth at site, 19.0 feet)					
	0.0	4,410	8.8	8.0	11.6	99
	2.0	4,400	8.8	8.0	11.7	100
	4.0	4,410	8.8	8.0	11.6	99
	7.0	4,410	8.8	8.0	11.7	99
	10.0	4,410	8.8	8.0	11.7	99
	13.0	4,420	8.7	7.5	11.7	99
	16.0	4,410	8.7	7.5	11.7	99
	19.0	4,410	8.5	8.0	11.8	100

Table 1.--Depth profiles of physical properties at Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Date	Sampling depth (feet)	Specific conductance (microsiemens per centimeter at 25 degrees Celsius)	pH (standard units)	Temperature, water (degrees Celsius)	Oxygen, dissolved (milligrams per liter)	Oxygen, dissolved (percent saturation)
		Site 3, Devils Lake, Creel Bay--Continued				
Feb. 6, 1990	(Secchi disk transparency, 67.0 inches; lake depth at site, 19.2 feet; ice thickness, 2.2 feet)					
	2.2	4,930	9.2	0.5	15.6	110
	4.0	4,930	9.3	.5	15.4	108
	7.0	4,940	9.3	.5	15.3	107
	10.0	4,940	9.3	0	15.3	107
	13.0	4,940	9.3	0	15.1	106
	16.0	4,960	9.3	.5	13.8	98
	18.0	5,060	9.4	.5	13.6	97
	18.3	5,050	9.4	1.0	13.1	93
May 8, 1990	(Secchi disk transparency, 36.0 inches; lake depth at site, 19.2 feet)					
	0.0	4,770	8.4	10.0	14.3	128
	2.0	4,770	8.4	10.0	14.3	128
	4.0	4,770	8.4	10.0	14.3	128
	7.0	4,760	8.3	10.0	14.2	127
	10.0	4,780	8.3	10.0	14.2	127
	13.0	4,770	8.3	10.0	14.2	127
	16.0	4,770	8.2	10.0	14.2	127
	19.0	4,770	8.2	10.0	14.1	126
Aug. 7, 1990	(Secchi disk transparency, 26.4 inches; lake depth at site, 18.2 feet)					
	0.0	4,820	8.6	22.5	10.4	120
	3.0	4,820	8.6	22.5	10.4	120
	6.0	4,820	8.6	22.0	10.2	117
	9.0	4,820	8.5	22.0	9.9	113
	12.0	4,820	8.5	22.0	9.5	109
	15.0	4,820	8.5	22.0	8.9	102
	18.0	4,820	8.5	22.0	8.8	100
Sept. 11, 1990	(Secchi disk transparency, 18.0 inches; lake depth at site, 18.8 feet)					
	0.0	4,960	8.8	21.0	11.5	130
	2.0	4,960	8.7	21.0	11.5	130
	6.0	4,960	8.7	20.5	10.0	112
	10.0	4,960	8.7	20.0	9.0	100
	14.0	4,960	8.7	20.0	7.6	84
	18.0	4,960	8.7	20.0	6.2	69
Oct. 24, 1990	(Secchi disk transparency, 55.2 inches; lake depth at site, 17.8 feet)					
	0.0	4,870	8.8	5.5	11.4	94
	3.0	4,870	8.8	5.5	11.4	93
	6.0	4,880	8.8	5.5	11.4	93
	9.0	4,880	8.8	5.5	11.4	93
	12.0	4,880	8.8	5.5	11.4	94
	15.0	4,870	8.8	5.5	11.5	95
	17.8	4,870	8.8	6.0	11.7	97

Table 1.--Depth profiles of physical properties at Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Date	Sampling depth (feet)	Specific conductance (microsiemens per centimeter at 25 degrees Celsius)	pH (standard units)	Temperature, water (degrees Celsius)	Oxygen, dissolved (milligrams per liter)	Oxygen, dissolved (percent saturation)
Site 4, Devils Lake, Main Bay						
Sept. 20, 1988	(Secchi disk transparency, 60.0 inches; lake depth at site, 26.2 feet)					
	0.0	3,980	8.7	13.0	10.1	--
	1.6	3,960	8.7	13.0	10.0	--
	3.3	3,960	8.7	13.0	10.0	--
	4.9	3,980	8.7	13.0	9.9	--
	6.6	3,980	8.7	13.0	9.9	--
	8.2	3,980	8.7	13.0	9.8	--
	9.8	3,980	8.7	13.0	9.8	--
	11.5	3,980	8.7	13.0	9.9	--
	13.1	3,980	8.7	13.0	9.8	--
	16.4	3,990	8.7	13.0	9.8	--
	19.7	3,990	8.7	13.0	9.6	--
	23.0	3,990	8.8	13.0	9.5	--
	26.2	3,990	8.8	13.0	9.4	--
Jan. 30, 1989	(Secchi disk transparency, 156 inches; lake depth at site, 26.8 feet; ice thickness, 1.7 feet)					
	4.9	4,180	8.8	0.0	12.0	84
	9.8	4,190	8.8	0.0	12.0	85
	13.1	4,200	8.8	0.5	11.9	85
	19.7	4,230	8.5	2.0	10.7	80
	26.2	4,410	8.1	4.0	1.9	15
May 8, 1989	(Secchi disk transparency, 32.0 inches; lake depth at site, 27.0 feet)					
	0.0	--	8.8	7.5	15.2	--
	3.0	--	8.8	7.5	15.2	--
	6.0	--	8.8	7.5	15.0	--
	9.0	--	8.8	7.5	14.8	--
	12.0	--	8.8	7.5	14.5	--
	15.0	--	8.8	7.0	13.5	--
	18.0	--	8.8	7.0	13.2	--
	21.0	--	8.7	7.0	13.1	--
	24.0	--	8.7	7.0	13.2	--
	27.0	--	8.6	7.0	13.2	--
June 21, 1989	(Secchi disk transparency, 85.0 inches; lake depth at site, 26.0 feet)					
	0.0	4,090	8.5	18.0	9.2	98
	2.0	4,110	8.5	18.0	9.2	98
	6.0	4,120	8.5	18.0	9.3	99
	10.0	4,120	8.5	18.0	9.3	99
	14.0	4,120	8.5	18.0	9.3	99
	18.0	4,120	8.5	18.0	9.5	101
	22.0	4,120	8.5	18.0	9.4	100
	26.0	4,120	8.4	18.0	9.9	105

Table 1.--Depth profiles of physical properties at Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Date	Sampling depth (feet)	Specific conductance (microsiemens per centimeter at 25 degrees Celsius)	pH (standard units)	Temperature, water (degrees Celsius)	Oxygen, dissolved (milligrams per liter)	Oxygen, dissolved (percent saturation)
		Site 4, Devils Lake, Main Bay--Continued				
Aug. 15, 1989	(Secchi disk transparency, 34.0 inches; lake depth at site, 25.9 feet)					
	0.0	4,300	8.7	23.5	13.0	152
	3.0	4,330	8.7	22.5	13.1	151
	6.0	4,300	8.7	22.0	12.0	137
	9.0	4,310	8.7	22.0	10.1	115
	12.0	4,300	8.7	22.0	9.9	112
	15.0	4,300	8.7	21.5	9.7	110
	18.0	4,300	8.7	22.0	9.6	109
	21.0	4,300	8.7	22.0	9.6	109
	24.0	4,300	8.7	22.0	9.6	109
	25.9	4,300	8.7	21.5	8.7	99
Oct. 25, 1989	(Secchi disk transparency, 52.0 inches; lake depth at site, 25.1 feet)					
	0.0	4,390	8.7	8.0	11.8	101
	2.0	4,410	8.7	8.0	11.8	101
	5.0	4,410	8.7	8.0	11.8	101
	9.0	4,420	8.7	8.0	11.7	99
	13.0	4,410	8.7	8.0	11.7	99
	17.0	4,410	8.7	8.0	11.5	97
	21.0	4,420	8.7	8.0	11.7	99
	25.1	4,420	8.6	8.0	11.6	99
Feb. 6, 1990	(Secchi disk transparency, 52.0 inches; lake depth at site, 25.2 feet; ice thickness, 2.2 feet)					
	2.2	4,940	9.2	0.5	15.6	110
	5.0	4,950	9.3	.5	15.3	107
	10.0	4,980	9.4	0	15.3	107
	15.0	4,950	9.4	0	15.3	107
	17.0	4,980	9.4	1.0	14.0	100
	20.0	4,980	9.3	1.0	9.8	70
	22.0	5,300	9.2	2.5	7.6	56
	24.0	5,410	9.0	3.0	2.3	17
May 9, 1990	(Secchi disk transparency, 46.0 inches; lake depth at site, 25.5 feet)					
	0.0	4,740	8.8	8.0	12.8	108
	5.0	4,730	8.8	8.0	12.8	108
	10.0	4,730	8.8	8.0	12.8	108
	15.0	4,740	8.8	8.0	12.8	108
	20.0	4,730	8.8	8.0	12.9	109
	25.0	4,730	8.8	8.0	12.9	109

Table 1.--Depth profiles of physical properties at Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Date	Sampling depth (feet)	Specific conductance (microsiemens per centimeter at 25 degrees Celsius)	pH (standard units)	Temperature, water (degrees Celsius)	Oxygen, dissolved (milligrams per liter)	Oxygen, dissolved (percent saturation)
		Site 4, Devils Lake, Main Bay--Continued				
Aug. 7, 1990	(Secchi disk transparency, 27.6 inches; lake depth at site, 24.5 feet)					
	0.0	4,810	8.5	22.5	10.1	117
	2.0	4,810	8.6	22.5	10.1	117
	4.0	4,810	8.5	22.0	9.8	113
	6.0	4,810	8.5	22.0	9.7	112
	8.0	4,810	8.5	22.0	9.4	108
	10.0	4,810	8.5	22.0	9.2	106
	12.0	4,810	8.5	22.0	9.2	106
	14.0	4,810	8.5	22.0	8.5	98
	16.0	4,810	8.5	22.0	8.3	95
	18.0	4,820	8.5	22.0	8.2	94
	20.0	4,810	8.5	21.5	7.4	84
	22.0	4,810	8.4	21.5	6.4	73
	24.0	4,810	8.4	21.5	6.4	73
Sept. 11, 1990	(Secchi disk transparency, 39.6 inches; lake depth at site, 24.5 feet)					
	0.0	4,930	8.8	20.5	9.6	107
	2.0	4,930	8.8	20.5	9.6	107
	4.0	4,930	8.8	20.0	9.5	106
	6.0	4,930	8.8	20.0	9.2	102
	8.0	4,920	8.8	20.0	8.8	97
	10.0	4,920	8.8	20.0	8.7	96
	12.0	4,920	8.8	20.0	8.5	94
	14.0	4,930	8.7	20.0	8.4	93
	16.0	4,930	8.7	20.0	8.3	92
	18.0	4,930	8.7	20.0	8.3	92
	20.0	4,930	8.7	20.0	8.2	91
	22.0	4,930	8.7	20.0	8.0	88
	24.0	4,930	8.7	20.0	8.0	88
Oct. 24 1990	(Secchi disk transparency, 58.8 inches; lake depth at site, 24.2 feet)					
	0.0	4,900	8.6	6.0	11.7	96
	4.0	4,920	8.6	6.0	11.7	96
	8.0	4,930	8.6	6.0	11.7	96
	12.0	4,920	8.6	5.5	11.7	96
	16.0	4,930	8.6	5.5	11.8	97
	20.0	4,930	8.6	5.5	11.8	97
	24.0	4,950	8.6	5.5	12.1	100
		Site 5, Devils Lake, Mission Bay				
Sept. 21, 1988	(Secchi disk transparency, 60.0 inches; lake depth at site, 16.4 feet)					
	0.0	4,920	--	11.5	10.4	--
	1.6	4,930	--	11.5	10.4	--
	3.3	4,910	--	11.5	10.3	--
	6.6	4,920	--	11.5	10.3	--
	9.8	4,930	--	11.5	10.3	--
	13.1	4,950	--	11.5	10.3	--
	16.4	4,970	--	11.5	9.8	--

Table 1.--Depth profiles of physical properties at Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Date	Sampling depth (feet)	Specific conductance (microsiemens per centimeter at 25 degrees Celsius)	pH (standard units)	Temperature, water (degrees Celsius)	Oxygen, dissolved (milligrams per liter)	Oxygen, dissolved (percent saturation)
		Site 5, Devils Lake, Mission Bay--Continued				
Feb. 22, 1989	(Secchi disk transparency, 89.0 inches; lake depth at site, 16.6 feet; ice thickness, 2.1 feet)					
	2.1	5,810	8.9	0.0	--	--
	9.8	6,070	8.7	1.5	8.8	65
	16.4	6,230	8.5	2.5	5.3	40
May 8, 1989	(Secchi disk transparency, 31.0 inches; lake depth at site, 17.4 feet)					
	0.0	--	--	9.5	--	--
	3.0	--	--	9.5	--	--
	5.0	--	--	9.5	--	--
	8.0	--	--	9.0	--	--
	11.0	--	--	9.0	--	--
	14.0	--	--	9.0	--	--
	17.4	--	--	8.0	--	--
June 21, 1989	(Secchi disk transparency, 55.0 inches; lake depth at site, 17.0 feet)					
	0.0	4,990	8.5	19.0	9.8	107
	2.0	4,990	8.5	19.0	9.9	108
	5.0	4,990	8.5	19.0	9.9	108
	8.0	5,010	8.5	19.0	9.9	108
	11.0	5,030	8.5	19.0	9.9	108
	14.0	5,090	8.5	19.0	9.8	107
	17.0	5,110	8.4	19.0	9.5	103
Aug. 15, 1989	(Secchi disk transparency, 38.0 inches; lake depth at site, 16.3 feet)					
	0.0	5,110	8.7	23.5	13.1	154
	3.0	5,190	8.8	22.5	14.2	163
	6.0	5,260	8.8	22.0	12.7	145
	9.0	5,280	8.8	21.5	11.0	125
	12.0	5,320	8.7	21.5	7.8	89
	15.0	5,650	8.7	21.5	2.7	31
	16.3	5,710	8.7	21.5	.3	3
Oct. 26, 1989	(Secchi disk transparency, 41.0 inches; lake depth at site, 15.6 feet)					
	0.0	5,590	8.6	8.0	12.1	104
	3.0	5,600	8.6	8.0	12.0	103
	6.0	5,600	8.6	8.0	12.0	103
	9.0	5,600	8.6	8.0	12.0	103
	12.0	5,630	8.5	8.0	11.8	101
	15.6	5,640	8.5	8.0	11.8	101
Feb. 6, 1990	(Secchi disk transparency, 74.0 inches; lake depth at site, 15.7 feet; ice thickness, 2.7 feet)					
	2.7	5,950	9.1	1.0	17.1	122
	5.0	6,330	9.1	1.0	16.2	117
	7.0	6,400	9.1	1.0	--	--
	9.0	6,530	9.1	1.5	--	--
	11.0	6,680	9.2	1.5	--	--
	13.0	6,820	9.1	2.0	--	--
	14.5	6,890	9.2	2.0	--	--

Table 1.--Depth profiles of physical properties at Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Date	Sampling depth (feet)	Specific conductance (microsiemens per centimeter at 25 degrees Celsius)	pH (standard units)	Temperature, water (degrees Celsius)	Oxygen, dissolved (milligrams per liter)	Oxygen, dissolved (percent saturation)
Site 5, Devils Lake, Mission Bay--Continued						
May 8, 1990	(Secchi disk transparency, 62.0 inches; lake depth at site, 15.6 feet)					
	0.0	5,500	8.8	10.5	12.9	118
	3.0	5,490	8.8	10.5	12.9	118
	6.0	5,500	8.8	10.5	12.9	118
	9.0	5,490	8.8	10.5	12.8	117
	12.0	5,490	8.8	10.5	12.9	118
	15.0	5,480	8.6	10.5	13.0	119
Aug. 7, 1990	(Secchi disk transparency, 18.0 inches; lake depth at site, 15.0 feet)					
	0.0	5,830	8.6	22.0	11.1	128
	3.0	5,830	8.6	22.0	11.1	128
	6.0	5,830	8.6	22.0	11.1	128
	9.0	5,840	8.6	22.0	11.0	127
	12.0	5,830	8.6	22.0	10.8	125
	15.0	6,010	8.6	21.5	5.4	62
Sept. 11, 1990	(Secchi disk transparency, 14.4 inches; lake depth at site, 14.9 feet)					
	0.0	5,800	8.9	21.0	15.0	170
	2.0	5,800	8.9	21.0	15.1	171
	4.0	5,820	8.8	21.0	14.7	166
	6.0	5,990	8.8	20.0	11.2	124
	8.0	5,990	8.8	20.0	10.8	120
	10.0	5,990	8.7	19.5	10.4	115
	12.0	5,980	8.8	19.5	8.7	96
	14.0	5,980	8.8	19.0	7.3	80
Oct. 24, 1990	(Secchi disk transparency, 32.4 inches; lake depth at site, 14.5 feet)					
	0.0	5,880	8.6	5.0	12.6	102
	2.5	5,880	8.6	5.0	12.6	102
	5.0	5,880	8.6	5.0	12.6	102
	8.0	5,880	8.6	4.5	12.4	100
	11.0	5,890	8.6	4.5	12.2	98
	14.0	5,900	8.6	4.5	12.3	98
Site 6, Devils Lake, East Bay west						
Sept. 21, 1988	(Secchi disk transparency, 12.0 inches; lake depth at site, 15.6 feet)					
	0.0	6,170	--	11.5	9.3	--
	1.6	6,170	--	11.5	9.0	--
	3.3	6,170	--	11.5	9.0	--
	6.6	6,180	--	11.5	9.0	--
	9.8	6,170	--	11.5	9.0	--
	13.1	6,170	--	11.5	9.0	--
	15.6	6,170	--	11.5	8.9	--

Table 1.--Depth profiles of physical properties at Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Date	Sampling depth (feet)	Specific conductance (microsiemens per centimeter at 25 degrees Celsius)	pH (standard units)	Temperature, water (degrees Celsius)	Oxygen, dissolved (milligrams per liter)	Oxygen, dissolved (percent saturation)
		Site 6, Devils Lake, East Bay west--Continued				
Feb. 23, 1989	(Secchi disk transparency, 77.0 inches; lake depth at site, 16.9 feet; ice thickness, 2.4 feet)					
	2.4	6,800	9.0	0.0	8.9	64
	6.6	6,780	9.0	1.0	8.6	63
	9.8	6,820	8.9	1.0	7.9	58
	13.1	6,850	9.0	.5	9.0	66
	16.4	6,900	8.3	2.0	5.1	39
May 9, 1989	(Secchi disk transparency, 31.0 inches; lake depth at site, 16.6 feet)					
	0.0	6,210	8.8	10.0	13.7	--
	2.0	6,220	8.8	9.5	14.0	--
	4.0	6,210	8.8	9.0	13.9	--
	7.0	6,200	8.8	8.5	13.9	--
	10.0	6,220	8.7	8.0	13.4	--
	13.0	6,220	8.7	8.0	13.2	--
	16.6	6,290	8.6	7.5	11.3	--
June 20, 1989	(Secchi disk transparency, 25.0 inches; lake depth at site, 16.0 feet)					
	0.0	6,060	8.5	21.0	9.8	113
	4.0	6,040	8.5	19.0	10.5	115
	7.0	6,050	8.5	19.0	9.5	104
	10.0	6,060	8.5	18.5	9.3	102
	13.0	6,050	8.4	18.5	9.2	101
	16.0	6,050	8.4	18.5	9.0	98
Aug. 15, 1989	(Secchi disk transparency, 11.0 inches; lake depth at site, 15.5 feet)					
	0.0	6,480	8.9	27.0	19.5	246
	3.0	6,440	8.8	22.0	13.2	152
	6.0	6,420	8.8	22.0	9.8	112
	9.0	6,410	8.8	21.5	8.6	98
	12.0	6,410	8.8	21.5	8.1	92
	15.0	6,410	8.8	21.5	6.9	79
	15.5	6,420	8.8	21.5	6.1	69
Oct. 26, 1989	(Secchi disk transparency, 41.0 inches; lake depth at site, 14.6 feet)					
	0.0	6,680	8.7	7.5	10.7	92
	2.0	6,690	8.7	7.5	10.8	92
	4.0	6,680	8.7	7.5	10.8	92
	6.0	6,680	8.7	7.5	10.8	92
	8.0	6,690	8.6	7.5	10.8	92
	10.0	6,690	8.6	7.5	10.8	92
	12.0	6,690	8.6	7.5	10.9	93
	14.6	6,690	8.6	7.5	11.1	95

Table 1.--Depth profiles of physical properties at Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Date	Sampling depth (feet)	Specific conductance (microsiemens per centimeter at 25 degrees Celsius)	pH (standard units)	Temperature, water (degrees Celsius)	Oxygen, dissolved (milligrams per liter)	Oxygen, dissolved (percent saturation)
Site 6, Devils Lake, East Bay west--Continued						
Feb. 7, 1990	(Secchi disk transparency, 86.0 inches; lake depth at site, 14.7 feet; ice thickness, 2.7 feet)					
	2.7	7,540	8.9	0.5	9.8	70
	5.0	7,550	8.9	.5	9.4	67
	8.0	7,540	9.0	.5	9.2	65
	10.0	7,600	9.0	1.0	6.7	49
	12.0	7,660	8.9	2.0	4.0	30
	13.5	7,730	8.9	2.5	2.7	20
May 8, 1990	(Secchi disk transparency, 42.0 inches; lake depth at site, 15.0 feet)					
	0.0	6,510	8.5	10.0	12.8	116
	3.0	6,510	8.5	10.0	12.8	116
	6.0	6,510	8.5	10.0	12.8	116
	9.0	6,510	8.5	10.0	12.8	116
	12.0	6,500	8.4	10.0	12.8	116
	15.0	6,500	8.4	10.0	12.9	117
Aug. 8, 1990	(Secchi disk transparency, 28.8 inches; lake depth at site, 14.0 feet)					
	0.0	6,870	8.6	21.5	8.9	102
	2.0	6,870	8.6	21.5	8.8	101
	4.0	6,870	8.6	21.5	8.8	101
	6.0	6,870	8.6	21.5	8.8	101
	8.0	6,870	8.6	21.5	8.8	101
	10.0	6,870	8.6	21.5	8.8	101
	12.0	6,870	8.6	21.5	8.8	101
	14.0	6,870	8.6	21.5	8.8	101
Sept. 12, 1990	(Secchi disk transparency, 21.6 inches; lake depth at site, 13.9 feet)					
	0.0	7,110	8.6	19.0	6.3	69
	3.0	7,120	8.6	19.0	6.3	69
	5.0	7,120	8.6	19.0	6.4	70
	7.0	7,120	8.6	19.0	6.3	69
	9.0	7,120	8.6	19.0	6.4	70
	11.0	7,120	8.6	19.0	6.4	70
	13.0	7,120	8.5	19.0	6.5	71
Oct. 25, 1990	(Secchi disk transparency, 14.4 inches; lake depth at site, 13.9 feet)					
	0.0	7,040	8.4	4.0	12.3	98
	2.0	7,040	8.4	4.0	12.3	98
	4.0	7,040	8.4	4.0	12.4	99
	7.0	7,040	8.4	4.0	12.4	98
	10.0	7,040	8.3	4.0	12.5	99
	13.0	7,050	8.3	4.0	12.6	101

Table 1.--Depth profiles of physical properties at Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Date	Sampling depth (feet)	Specific conductance (microsiemens per centimeter at 25 degrees Celsius)	pH (standard units)	Temperature, water (degrees Celsius)	Oxygen, dissolved (milligrams per liter)	Oxygen, dissolved (percent saturation)
		Site 7, Devils Lake, East Bay east				
Sept. 21, 1988	(Secchi disk transparency, 29.0 inches; lake depth at site, 16.4 feet)					
	0.0	6,450	--	11.5	9.0	--
	1.6	6,440	--	11.5	9.0	--
	3.3	6,440	--	11.5	9.0	--
	6.6	6,450	--	11.5	8.9	--
	9.8	6,450	--	11.5	8.9	--
	13.1	6,440	--	11.5	9.4	--
	16.4	6,430	--	11.0	9.5	--
Feb. 23, 1989	(Secchi disk transparency, 70.0 inches; lake depth at site, 18.5 feet; ice thickness, 1.9 feet)					
	1.9	6,820	8.9	0.0	9.7	70
	6.6	6,890	8.9	0	9.4	68
	9.8	6,950	8.8	.5	10.4	75
	13.1	6,900	8.6	.5	10.0	73
	16.4	6,870	8.6	2.0	7.6	57
	18.0	6,910	8.7	2.5	1.8	14
May 9, 1989	(Secchi disk transparency, 36.0 inches; lake depth at site, 17.4 feet)					
	0.0	6,320	8.8	10.5	15.5	--
	3.0	6,300	8.8	10.0	15.4	--
	5.0	6,330	8.8	8.5	15.2	--
	8.0	6,350	8.8	8.5	13.9	--
	11.0	6,360	8.8	8.0	13.6	--
	14.0	6,380	8.7	8.0	12.5	--
	17.4	6,420	8.7	8.0	11.8	--
June 20, 1989	(Secchi disk transparency, 24.0 inches; lake depth at site, 15.5 feet)					
	0.0	6,280	8.5	20.5	9.3	105
	3.0	6,280	8.5	20.0	9.3	105
	6.0	6,300	8.5	19.5	9.2	102
	9.0	6,270	8.5	18.5	9.3	102
	12.0	6,280	8.4	18.5	9.2	100
	15.5	6,280	8.4	18.5	9.3	102
Aug. 15, 1989	(Secchi disk transparency, 48.0 inches; lake depth at site, 10.5 feet)					
	0.0	6,690	8.8	25.0	18.1	220
	2.0	6,710	8.8	25.0	17.4	211
	4.0	6,680	8.8	22.5	12.0	140
	6.0	6,700	8.8	22.0	10.1	116
	8.0	6,700	8.8	22.0	9.9	114
	10.0	6,700	8.8	21.5	9.1	104
	10.5	6,700	8.8	21.5	8.9	102
Oct. 26, 1989	(Secchi disk transparency, 35.0 inches; lake depth at site, 15.3 feet)					
	0.0	6,950	8.7	7.5	12.3	105
	3.0	6,980	8.7	8.0	12.4	107
	6.0	6,970	8.7	8.0	12.3	106
	9.0	6,980	8.7	8.0	12.4	107
	12.0	6,980	8.7	8.0	12.4	107
	15.3	6,990	8.5	8.0	12.0	103

Table 1.--Depth profiles of physical properties at Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Date	Sampling depth (feet)	Specific conductance (microsiemens per centimeter at 25 degrees Celsius)	pH (standard units)	Temperature, water (degrees Celsius)	Oxygen, dissolved (milligrams per liter)	Oxygen, dissolved (percent saturation)
Site 7, Devils Lake, East Bay east--Continued						
Feb. 7, 1990	(Secchi disk transparency, 60.0 inches; lake depth at site, 13.2 feet; ice thickness, 2.4 feet)					
	2.4	7,860	8.5	0.5	11.1	79
	5.0	7,860	8.6	0	10.5	74
	7.0	7,860	8.6	0	10.5	74
	9.0	7,860	8.6	0	10.6	75
	11.0	7,880	8.7	.5	10.1	72
	12.6	7,900	8.7	1.0	8.8	64
May 8, 1990	(Secchi disk transparency, 38.0 inches; lake depth at site, 14.7 feet)					
	0.0	6,640	8.4	10.0	15.3	138
	3.0	6,690	8.4	10.0	15.3	138
	6.0	6,690	8.4	10.0	15.3	138
	9.0	6,690	8.4	10.0	15.2	137
	12.0	6,690	8.4	10.0	15.3	138
	14.0	6,680	8.3	10.0	15.3	138
Aug. 8, 1990	(Secchi disk transparency, 25.2 inches; lake depth at site, 15.0 feet)					
	0.0	7,130	8.5	21.5	9.5	109
	3.0	7,130	8.5	21.5	9.5	109
	6.0	7,130	8.5	21.5	9.4	108
	9.0	7,140	8.5	21.5	9.5	109
	12.0	7,140	8.5	21.5	9.3	107
	15.0	7,050	8.5	21.5	6.7	77
Sept. 12, 1990	(Secchi disk transparency, 27.6 inches; lake depth at site, 13.8 feet)					
	0.0	7,410	8.6	19.0	7.3	80
	2.0	7,410	8.6	19.0	7.3	80
	4.0	7,410	8.6	19.0	7.3	80
	7.0	7,410	8.6	19.0	7.2	79
	10.0	7,410	8.6	19.0	7.2	79
	13.0	7,410	8.6	19.0	7.2	79
Oct. 25, 1990	(Secchi disk transparency, 15.6 inches; lake depth at site, 14.9 feet)					
	0.0	7,300	8.4	4.0	12.3	98
	3.0	7,300	8.4	4.0	12.3	98
	6.0	7,300	8.3	4.0	12.3	98
	10.0	7,300	8.3	4.0	12.4	99
	14.0	7,300	8.2	4.0	12.5	100
Site 8, East Devils Lake inlet						
Sept. 21, 1988	(Secchi disk transparency, 36.0 inches; lake depth at site, 6.6 feet)					
	0.0	8,880	--	10.0	10.0	--
	1.6	8,890	--	10.0	9.7	--
	3.3	8,880	--	10.0	9.7	--
	6.6	8,880	--	10.0	9.3	--

Table 1.--Depth profiles of physical properties at Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Date	Sampling depth (feet)	Specific conductance (microsiemens per centimeter at 25 degrees Celsius)	pH (standard units)	Temperature, water (degrees Celsius)	Oxygen, dissolved (milligrams per liter)	Oxygen, dissolved (percent saturation)
		Site 8, East Devils Lake inlet--Continued				
Feb. 22. 1989	(Secchi disk transparency, 60.0 inches; lake depth at site, 6.6 feet; ice thickness, 1.9 feet)					
	1.9	12,400	8.6	0.0	2.2	16
	6.6	12,600	8.3	0	2.3	17
May 9, 1989	(Secchi disk transparency, 19.0 inches; lake depth at site, 7.2 feet)					
	0.0	8,670	8.9	13.0	12.2	--
	1.0	8,680	8.9	13.0	12.1	--
	2.0	8,680	8.9	13.0	12.1	--
	3.0	8,670	8.9	13.0	12.2	--
	5.0	8,700	8.9	12.5	12.1	--
	7.2	10,100	8.8	10.5	11.2	--
June 21, 1989	(Secchi disk transparency, 22.0 inches; lake depth at site, 6.5 feet)					
	0.0	9,080	8.6	20.0	8.4	95
	1.5	9,130	8.6	20.0	8.3	94
	3.0	9,140	8.5	20.0	8.3	94
	4.5	9,170	8.5	20.5	8.4	95
	6.0	9,160	8.5	20.0	8.6	97
Aug. 15, 1989	(Secchi disk transparency, 26.0 inches; lake depth at site, 6.3 feet)					
	0.0	10,800	8.9	24.0	20.0	243
	1.0	10,800	8.9	24.0	16.3	199
	2.0	10,700	8.9	24.0	--	--
	3.0	10,800	8.9	22.5	12.4	147
	4.0	10,800	8.9	22.0	12.5	146
	5.0	10,800	8.9	22.0	11.9	139
	6.0	10,800	8.9	21.0	6.7	77
	6.3	10,800	8.9	21.0	4.5	51
Oct. 26, 1989	(Secchi disk transparency, 10.0 inches; lake depth at site, 5.4 feet)					
	0.0	11,800	8.2	10.0	11.8	109
	1.5	11,800	8.1	10.0	11.9	110
	2.5	11,800	8.1	10.0	11.8	109
	3.5	11,800	8.1	10.0	11.9	110
	4.5	11,800	8.0	10.5	11.9	111
	5.4	11,800	8.0	10.5	12.3	114
Feb. 7, 1990	(Secchi disk transparency, 17.0 inches; lake depth at site, 5.7 feet; ice thickness, 2.5 feet)					
	2.5	20,100	8.2	0.0	3.5	26
	4.0	19,900	8.3	0	2.8	21
	4.5	20,000	8.3	0	2.5	19

Table 1.--Depth profiles of physical properties at Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Date	Sampling depth (feet)	Specific conductance (microsiemens per centimeter at 25 degrees Celsius)	pH (standard units)	Temperature, water (degrees Celsius)	Oxygen, dissolved (milligrams per liter)	Oxygen, dissolved (percent saturation)
Site 8, East Devils Lake inlet--Continued						
May 9, 1990		(Lake depth at site, 5.5 feet)				
	0.0	9,400	8.4	9.5	11.2	--
	1.0	9,420	8.3	9.5	11.2	--
	2.0	9,420	8.3	9.5	11.3	--
	3.0	9,420	8.3	9.5	11.2	--
	4.0	9,420	8.2	9.5	11.3	--
	5.0	9,430	8.3	9.5	11.4	--
Aug. 8, 1990		(Lake depth at site, 5.0 feet)				
	0.0	11,900	8.5	23.0	8.0	--
	2.0	11,900	8.5	23.0	8.0	--
	3.0	11,900	8.5	23.0	8.0	--
	4.0	11,900	8.5	23.0	7.9	--
	5.0	11,900	8.5	23.0	7.5	--
Sept. 12, 1990		(Lake depth at site, 5.3 feet)				
	0.0	13,600	8.7	19.5	10.1	--
	2.0	13,600	8.7	19.5	10.1	--
	3.0	13,600	8.7	19.5	10.1	--
	4.0	13,600	8.7	19.0	10.2	--
	5.0	13,600	8.7	19.0	10.2	--
Oct. 25, 1990		(Lake depth at site, 4.2 feet)				
	0.0	13,900	8.6	3.5	14.0	--
	2.0	13,900	8.6	3.5	14.1	--
	3.0	13,900	8.6	3.5	14.3	--
	4.0	13,900	8.6	3.5	14.4	--
Site 9, Devils Lake, Fort Totten Bay						
Feb. 7, 1990		(Secchi disk transparency, 34.0 inches; lake depth at site, 7.3 feet; ice thickness, 2.2 feet)				
	2.2	3,010	8.4	2.5	17.9	132
	4.0	3,000	8.5	2.5	18.3	136
	5.0	3,060	8.5	2.5	19.9	148
	6.1	3,090	8.5	3.0	20.3	151
May 9, 1990		(Secchi disk transparency, 41.0 inches; lake depth at site, 7.6 feet)				
	0.0	1,750	8.7	11.0	11.3	102
	1.0	1,750	8.7	11.0	11.3	102
	2.0	1,750	8.6	11.0	11.3	102
	3.0	1,750	8.6	11.0	11.3	102
	4.0	1,750	8.6	11.0	11.3	101
	5.0	1,750	8.6	11.0	11.3	102
	6.0	1,750	8.6	11.0	11.2	100
	7.0	1,750	8.5	11.0	11.3	102

Table 1.--Depth profiles of physical properties at Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Date	Sampling depth (feet)	Specific conductance (microsiemens per centimeter at 25 degrees Celsius)	pH (standard units)	Temperature, water (degrees Celsius)	Oxygen, dissolved (milligrams per liter)	Oxygen, dissolved (percent saturation)
Site 9, Devils Lake, Fort Totten Bay--Continued						
Aug. 8, 1990	(Secchi disk transparency, 18.0 inches; lake depth at site, 6.1 feet)					
	0.0	1,740	8.8	22.0	11.1	127
	2.0	1,740	8.7	22.0	11.1	126
	3.0	1,740	8.7	22.0	11.0	125
	4.0	1,740	8.7	22.0	11.0	125
	5.0	1,740	8.7	22.0	10.6	120
	6.0	1,740	8.7	21.5	9.7	110
Site 10, East Devils Lake main bay						
Feb. 7, 1990	(Secchi disk transparency, 58.0 inches; lake depth at site, 26.9 feet; ice thickness, 2.5 feet)					
	2.5	12,600	8.4	0.0	12.6	--
	5.0	12,600	8.4	0	12.0	--
	10.0	12,600	8.4	0	11.9	--
	15.0	12,600	8.5	0	11.9	--
	20.0	12,700	8.5	0	12.0	--
	23.0	12,700	8.5	0	12.0	--
	26.0	12,700	8.6	0	10.2	--
May 9, 1990	(Secchi disk transparency, 43.0 inches; lake depth at site, 27.6 feet)					
	0.0	12,100	8.8	7.0	14.1	121
	5.0	12,000	8.8	7.0	14.2	122
	10.0	12,100	8.7	7.0	14.1	121
	15.0	12,100	8.7	7.0	14.1	121
	20.0	12,100	8.7	7.0	14.1	121
	26.0	12,100	8.6	7.0	14.1	121
Aug. 8, 1990	(Secchi disk transparency, 62.4 inches; lake depth at site, 28.6 feet)					
	0.0	12,200	8.4	23.0	11.4	137
	4.0	12,200	8.5	23.0	11.4	137
	8.0	12,200	8.5	22.0	11.0	131
	12.0	12,200	8.4	22.0	10.4	123
	16.0	12,200	8.4	22.0	10.0	118
	20.0	12,200	8.4	22.0	9.9	117
	24.0	12,200	8.4	22.0	9.5	112
	28.0	12,200	8.4	22.0	9.5	112
Sept. 12, 1990	(Secchi disk transparency, 52.8 inches; lake depth at site, 28.3 feet)					
	0.0	12,600	8.6	20.0	7.8	88
	4.0	12,600	8.6	20.0	7.8	88
	8.0	12,600	8.6	20.0	7.8	88
	12.0	12,600	8.6	20.0	7.7	87
	16.0	12,600	8.6	20.0	7.8	88
	20.0	12,600	8.6	20.0	7.8	88
	24.0	12,600	8.6	20.0	7.7	87
	28.0	12,600	8.6	20.0	7.4	84

Table 1.--Depth profiles of physical properties at Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Date	Sampling depth (feet)	Specific conductance (microsiemens per centimeter at 25 degrees Celsius)	pH (standard units)	Temperature, water (degrees Celsius)	Oxygen, dissolved (milligrams per liter)	Oxygen, dissolved (percent saturation)
		Site 10, East Devils Lake main bay--Continued				
Oct. 25, 1990	(Secchi disk transparency, 45.6 inches; lake depth at site, 27.5 feet)					
	0.0	12,300	8.6	6.0	11.9	102
	3.0	12,300	8.6	6.0	11.9	102
	7.0	12,300	8.6	6.0	11.9	102
	12.0	12,300	8.6	6.0	12.0	103
	17.0	12,300	8.6	6.0	12.0	103
	22.0	12,300	8.6	6.0	12.0	103
	27.0	12,300	8.6	6.0	12.1	104

Table 2.--Light-transmission data for Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990

[e, estimated]

Date/time	Sampling depth (feet)	Intensity of incident light in the 400-700-nanometer wavelength band (in microeinsteins per square meter per second)	Incident light, percent remaining at depth
Site 1, Devils Lake, West Bay			
Sept. 21, 1988			
1004	0.0	117	100
1005	.8	135	6.2
1006	1.6	130	1.9
May 9, 1989			
1052	0.0	1,500	100
1053	.5	e1,510	34
1054	1.0	e1,520	15
1055	1.5	e1,530	6.1
1056	2.0	e1,540	2.2
1057	2.5	e1,550	1.2
1058	3.0	e1,560	.6
1059	3.5	e1,570	.2
1100	4.0	e1,580	.1
June 21, 1989			
0935	0.0	175	100
0936	.5	160	19
0937	1.0	160	.6
Oct. 25, 1989			
1736	0.0	71	100
1737	.5	e71	28
1738	1.0	e71	11
1739	1.5	71	3.5
1740	2.0	e69	1.2
1741	2.5	69	.5
Aug. 7, 1990			
1626	0.0	1,460	100
1627	.25	1,460	21
1628	.50	1,430	11
1629	.75	1,410	4.1
1630	1.0	1,420	1.0
1631	1.25	1,440	.5
Site 1, Devils Lake, West Bay--Continued			
Sept. 11, 1990			
1750	0.0	617	100
1751	.5	587	24
1752	1.0	582	7.1
1753	1.5	579	1.8
1754	2.0	574	.5
Oct. 24, 1990			
1616	0.0	670	100
1617	.5	670	5.5
1618	1.0	670	2.3
1619	1.5	670	.5
Site 2, Devils Lake, Sixmile Bay			
Sept 21, 1988			
1127	0.0	175	100
1128	1.6	175	51
1129	3.3	175	26
1130	4.9	180	13
1131	6.6	180	6.3
1132	8.2	180	4.4
1133	9.8	200	3.1
May 9, 1989			
0936	0.0	1,150	100
0937	1.0	e1,150	50
0938	2.0	e1,160	37
0939	3.0	e1,160	26
0940	4.0	e1,170	18
0941	5.0	e1,170	12
0942	6.0	e1,170	7.2
0943	7.0	e1,180	5.2
0944	8.0	e1,180	3.7
0945	9.0	e1,190	2.6
0946	10.0	e1,190	1.8

Table 2.--Light-transmission data for Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Date/time	Sampling depth (feet)	Intensity of incident light in the 400-700-nanometer wavelength band (in microeinsteins per square meter per second)	Incident light, percent remaining at depth
Site 2, Devils Lake, Sixmile Bay--Continued			
May 9, 1989--Continued			
0947	11.0	e1,190	1.3
0948	12.0	e1,200	1.0
June 21, 1989			
0841	0.0	140	100
0842	.5	e138	34
0843	1.0	e137	22
0844	1.5	e135	18
0845	2.0	e133	15
0846	2.5	e132	13
0847	3.0	e130	11
0848	3.5	e129	8.5
0849	4.0	e127	7.9
0850	4.5	e125	6.4
0851	5.0	e124	5.6
0852	5.5	e122	4.9
0853	6.0	e121	4.1
0854	6.5	e119	3.4
0855	7.0	e117	3.0
0856	7.5	e116	2.6
0857	8.0	e114	2.2
0858	8.5	e113	1.8
0859	9.0	111	1.4
Oct. 25, 1989			
1627	0.0	260	100
1628	1.0	e259	59
1629	2.0	e258	38
1630	3.0	e256	24
1631	4.0	255	16
1632	5.0	e254	10
1633	6.0	e252	7.3
1634	7.0	250	5.3
1635	8.0	e247	3.4
1636	9.0	e243	2.4
1637	10.0	240	1.7
Site 2, Devils Lake, Sixmile Bay--Continued			
Oct. 25, 1989--Continued			
1638	11.0	240	1.2
1639	12.0	240	.9
May 9, 1990			
1055	0.0	510	100
1056	1.0	500	52
1057	2.0	500	30
1058	3.0	510	17
1059	4.0	560	10
1100	5.0	620	7.1
1101	6.0	640	5.3
1102	7.0	790	4.2
1103	8.0	1,200	2.4
1104	9.0	1,200	1.9
1105	10.0	1,150	1.2
1106	11.0	870	.8
1107	12.0	820	.5
Aug. 7, 1990			
1456	0.0	1,690	100
1457	.5	1,710	50
1458	1.0	1,710	35
1459	1.5	1,710	21
1500	2.0	1,690	13
1501	2.5	1,710	7.0
1502	3.0	1,730	4.6
1503	3.5	1,710	2.5
1504	4.0	1,700	1.6
1505	4.5	1,690	1.0
1506	5.0	1,690	.7
Sept. 11, 1990			
1640	0.0	1,020	100
1641	.5	1,020	31
1642	1.0	1,010	9.0
1643	1.5	1,000	4.5

Table 2.--Light-transmission data for Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Date/time	Sampling depth (feet)	Intensity of incident light in the 400-700-nanometer wavelength band (in microeinsteins per square meter per second)	Incident light, percent remaining at depth
Site 2, Devils Lake, Sixmile Bay--Continued			
Sept. 11, 1990--Continued			
1644	2.0	1,010	1.5
1645	2.5	998	.6
Oct. 24, 1990			
1511	0.0	1,030	100
1512	1.0	960	50
1513	2.0	910	25
1514	3.0	970	12
1515	4.0	980	9.1
1516	5.0	1,010	5.0
1517	6.0	1,020	3.0
1518	7.0	1,000	1.9
1519	8.0	980	1.1
1520	9.0	980	.8
Site 3, Devils Lake, Creel Bay			
Sept. 21, 1988			
0830	0.0	66	100
0831	1.6	64	40
0832	3.3	67	41
0833	4.9	74	27
0834	6.6	76	18
0835	8.2	75	13
0836	9.8	72	8.5
May 8, 1989			
1539	0.0	560	100
1540	.5	1,500	76
1541	1.0	430	46
1542	2.0	430	38
1543	3.0	430	22
1544	4.0	440	15
1545	5.0	450	13
1546	6.0	450	10
1547	7.0	460	8.3
Site 3, Devils Lake, Creel Bay--Continued			
May 8, 1989--Continued			
1548	8.0	1,450	7.8
1549	9.0	1,350	1.6
1550	10.0	490	3.3
1551	11.0	500	4.7
1552	12.0	530	3.6
1553	13.0	1,500	1.9
1554	14.0	700	2.7
1555	15.0	600	1.7
1556	16.0	1,500	1.1
1557	17.0	1,500	.8
1558	18.0	1,500	.7
1559	19.0	1,500	.5
1600	20.0	1,500	.4
June 21, 1989			
1206	0.0	1,900	100
1207	.5	2,050	54
1208	1.0	2,000	50
1209	1.5	2,200	55
1210	2.0	2,100	36
1211	2.5	1,050	30
1212	3.0	1,000	25
1213	3.5	1,250	26
1214	4.0	1,200	24
1215	4.5	1,250	21
1216	5.0	1,250	16
1217	6.0	1,400	11
1218	7.0	1,400	10
1219	8.0	1,050	9.5
1220	9.0	1,050	5.2
1221	12.0	1,000	2.6
1222	15.0	950	1.5
Oct. 25, 1989			
1313	0.0	1,100	100
1314	.5	[e]1,050	71

Table 2.--Light-transmission data for Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Date/time	Sampling depth (feet)	Intensity of incident light in the 400-700-nanometer wavelength band (in microeinsteins per square meter per second)	Incident light, percent remaining at depth
Site 3, Devils Lake, Creel Bay--Continued			
Oct. 25, 1989--Continued			
1315	1.0	1,000	60
1316	1.5	e1,000	53
1317	2.0	1,000	43
1318	2.5	e1,000	34
1319	3.0	e1,000	29
1320	3.5	e1,000	25
1321	4.0	1,000	21
1322	4.5	e1,030	17
1323	5.0	e1,050	13
1324	5.5	e1,080	11
1325	6.0	1,100	9.1
1326	6.5	e1,030	8.3
1327	7.0	e960	7.1
1328	7.5	e890	5.8
1329	8.0	820	5.1
1330	8.5	e885	4.4
1331	9.0	950	3.7
1332	9.5	e960	3.1
1333	10.0	e980	2.7
1334	10.5	e990	2.2
1335	11.0	1,000	1.9
1336	11.5	e1,020	1.7
1337	12.0	e1,040	1.3
1338	12.5	e1,060	1.2
1339	13.0	e1,080	1.0
1340	13.5	1,100	.9
May 8, 1990			
1753	0.0	350	100
1754	1.0	330	33
1755	2.0	325	18
1756	3.0	310	13
1757	4.0	300	8.4
1758	5.0	290	5.9
1759	6.0	280	4.1
1800	7.0	280	2.9
Site 3, Devils Lake, Creel Bay--Continued			
May 8, 1990--Continued			
1801	8.0	280	2.1
1802	9.0	275	1.3
1803	10.0	275	1.0
1804	11.0	270	.7
Aug. 7, 1990			
1256	0.0	1,750	100
1257	1.0	1,760	36
1258	2.0	1,760	13
1259	3.0	1,740	4.6
1300	4.0	1,750	2.2
1301	4.5	1,750	1.3
1302	5.0	1,770	.9
1303	6.0	1,760	.4
Sept. 11, 1990			
1501	0.0	1,390	100
1502	.5	1,400	38
1503	1.0	1,410	15
1504	1.5	1,410	7.1
1505	2.0	1,410	3.2
1506	2.5	1,400	1.4
1507	3.0	1,390	.7
Oct. 24, 1990			
1227	0.0	1,050	100
1228	1.0	1,070	63
1229	2.0	1,070	47
1230	3.0	1,070	28
1231	4.0	e1,070	18
1232	5.0	1,070	12
1233	6.0	e1,070	10
1234	7.0	1,070	7.5
1235	8.0	e1,070	5.2
1236	9.0	e1,070	3.5
1237	10.0	1,070	2.5

Table 2.--Light-transmission data for Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Date/time	Sampling depth (feet)	Intensity of incident light in the 400-700-nanometer wavelength band (in microeinsteins per square meter per second)	Incident light, percent remaining at depth
Site 3, Devils Lake, Creel Bay--Continued			
Oct. 24, 1990--Continued			
1238	11.0	e1,060	1.8
1239	12.0	1,050	1.2
1240	13.0	e1,040	1.0
1241	14.0	1,020	.7
Site 4, Devils Lake, Main Bay			
Sept. 20, 1988			
1548	0.0	520	100
1549	1.6	520	35
1550	3.3	510	13
1551	4.9	500	7.5
1552	6.6	510	3.6
1553	8.2	515	1.8
1554	9.8	485	1.6
May 8, 1989			
1810	0.0	190	100
1811	1.0	e190	50
1812	3.0	e190	28
1813	5.0	e190	16
1814	7.0	e190	6.9
1815	9.0	e190	4.4
1816	11.0	e190	2.5
1817	13.0	190	1.3
1818	15.0	190	.8
1819	17.0	e190	.4
June 21, 1989			
1037	0.0	560	100
1038	.5	580	78
1039	1.0	590	59
1040	1.5	590	56
1041	2.0	610	46
1042	2.5	620	40
1043	3.0	650	37

Date/time	Sampling depth (feet)	Intensity of incident light in the 400-700-nanometer wavelength band (in microeinsteins per square meter per second)	Incident light, percent remaining at depth
Site 4, Devils Lake, Main Bay--Continued			
June 21, 1989--Continued			
1044	3.5	650	32
1045	4.0	700	28
1046	4.5	700	25
1047	5.0	740	18
1048	5.5	740	22
1049	6.0	800	17
1050	6.5	840	17
1051	7.0	1,500	7.9
1052	7.5	1,500	11
1053	8.0	2,100	8.7
1054	8.5	1,900	9.1
1055	15.0	1,100	2.8
Oct. 25, 1989			
1508	0.0	1,000	100
1509	1.0	e890	78
1510	2.0	e770	60
1511	3.0	650	34
1512	4.0	e710	15
1513	5.0	e770	9.7
1514	6.0	820	11
1515	7.0	e660	7.6
1516	8.0	e510	6.1
1517	9.0	360	5.6
1518	10.0	e440	3.9
1519	11.0	e520	2.7
1520	12.0	600	2.0
1521	13.0	e530	1.3
1522	14.0	e450	1.3
1523	15.0	370	1.2
1524	16.0	320	1.0
May 9, 1990			
0851	0.0	130	100
0852	1.0	133	33
0853	2.0	130	25

Table 2.--Light-transmission data for Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Date/time	Sampling depth (feet)	Intensity of incident light in the 400-700-nanometer wavelength band (in microeinsteins per square meter per second)	Incident light, percent remaining at depth
Site 4, Devils Lake, Main Bay--Continued			
May 9, 1990--Continued			
0854	3.0	150	9.3
0855	4.0	155	8.6
0856	5.0	145	5.4
0857	6.0	145	3.4
0858	7.0	120	2.7
0859	8.0	120	1.9
0900	9.0	120	.9
0901	10.0	118	.4
0902	11.0	125	.1
Aug. 7, 1990			
1744	0.0	1,010	100
1745	.5	1,010	58
1746	1.0	1,040	33
1747	1.5	1,030	24
1748	2.0	1,020	13
1749	2.5	1,020	9.7
1750	3.0	988	5.7
1751	3.5	984	3.5
1752	4.0	989	2.7
1753	4.5	989	1.9
1754	5.0	980	1.4
1755	5.5	983	.9
1756	6.0	972	.7
Sept. 11, 1990			
1310	0.0	1,530	100
1311	.5	1,540	67
1312	1.0	1,540	46
1313	1.5	1,540	35
1314	2.0	1,540	21
1315	2.5	1,510	15
1316	3.0	1,520	12
1317	3.5	1,520	8.7
1318	4.0	1,520	6.6
Site 4, Devils Lake, Main Bay--Continued			
Sept. 11, 1990--Continued			
1319	4.5	1,520	5.1
1320	5.0	1,520	3.6
1321	5.5	1,520	3.0
1322	6.0	1,520	2.1
1323	6.5	1,530	1.6
1324	7.0	1,530	1.2
1325	7.5	1,530	.9
Oct. 24, 1990			
1342	0.0	1,210	100
1343	1.0	1,200	75
1344	2.0	1,140	51
1345	3.0	980	28
1346	4.0	590	21
1347	5.0	1,080	15
1348	6.0	840	9.7
1349	7.0	880	6.3
1350	8.0	920	5.0
1351	9.0	800	3.1
1352	10.0	1,140	2.3
1353	11.0	1,140	1.9
1354	12.0	1,100	1.5
1355	13.0	1,080	1.0
1356	14.0	1,050	.7
Site 5, Devils Lake Mission Bay			
Sept. 21, 1988			
1247	0.0	280	100
1248	1.6	290	43
1249	3.3	295	28
1250	4.9	340	10
1251	6.6	345	5.2
1252	8.2	375	2.4
1253	9.8	385	1.3

Table 2.--Light-transmission data for Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Date/time	Sampling depth (feet)	Intensity of incident light in the 400-700-nanometer wavelength band (in microeinsteins per square meter per second)	Incident light, percent remaining at depth
Site 5, Devils Lake Mission Bay--Continued			
May 8, 1989			
2007	0.0	230	100
2008	1.0	e229	64
2009	2.0	e228	41
2010	3.0	e226	28
2011	4.0	e225	18
2012	5.0	e224	11
2013	6.0	e222	8.7
2014	7.0	e221	6.6
2015	8.0	220	4.8
2016	9.0	e220	3.1
2017	10.0	e220	2.2
2018	11.0	e220	1.6
2019	12.0	e220	1.2
2020	13.0	220	1.0
June 21, 1989			
1357	0.0	1,000	100
1358	.5	1,100	38
1359	1.0	1,050	40
1400	1.5	1,050	30
1401	2.0	1,080	33
1402	3.0	1,080	22
1403	4.0	1,200	16
1404	5.0	1,500	22
1405	6.0	1,050	9.6
1406	7.0	1,050	8.3
1407	8.0	1,050	5.0
1408	9.0	1,050	3.6
1409	11.0	1,100	4.0
1410	13.0	1,000	1.8
1411	15.0	1,040	1.0
Oct. 26, 1989			
1046	0.0	265	100
1047	.5	262	62
1048	1.0	258	47
Site 5, Devils Lake Mission Bay--Continued			
Oct. 26, 1989--Continued			
1049	1.5	255	38
1050	2.0	249	27
1051	2.5	242	24
1052	3.0	235	20
1053	3.5	230	14
1054	4.0	225	12
1055	4.5	220	9.7
1056	5.0	217	8.0
1057	5.5	213	6.2
1058	6.0	210	5.3
1059	6.5	200	4.2
1100	7.0	190	3.5
1101	7.5	180	3.0
1102	8.0	179	2.5
1103	8.5	177	2.0
1104	9.0	175	1.6
1105	9.5	170	1.3
1106	10.0	165	1.1
1107	10.5	160	1.0
May 8, 1990			
1316	0.0	1,900	100
1317	1.0	1,950	56
1318	2.0	1,970	35
1319	3.0	1,960	26
1320	4.0	1,970	19
1321	5.0	1,960	14
1322	6.0	1,970	10
1323	7.0	1,960	8.1
1324	8.0	1,970	5.2
1325	9.0	1,970	3.9
1326	10.0	1,980	2.9
1327	11.0	1,980	2.1
1328	12.0	1,990	1.5
1329	13.0	1,970	1.1
1330	14.0	1,970	.9

Table 2.--Light-transmission data for Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Date/time	Sampling depth (feet)	Intensity of incident light in the 400-700-nanometer wavelength band (in microeinsteins per square meter per second)	Incident light, percent remaining at depth
Site 5, Devils Lake Mission Bay--Continued			
Aug. 7, 1990			
1909	0.0	575	100
1910	.5	572	49
1911	1.0	569	24
1912	1.5	564	17
1913	2.0	560	8.1
1914	2.5	558	5.0
1915	3.0	541	3.1
1916	3.5	542	2.0
1917	4.0	548	1.2
1918	4.5	552	.7
1919	5.0	557	.4
Sept. 11, 1990			
1906	0.0	162	100
1907	.5	166	46
1908	1.0	161	18
1909	1.5	156	8.1
1910	2.0	148	3.3
1911	2.5	144	1.2
1912	3.0	139	.6
Oct. 24, 1990			
1731	0.0	210	100
1732	1.0	215	44
1733	2.0	215	21
1734	3.0	214	12
1735	4.0	213	6.2
1736	5.0	207	3.6
1737	6.0	208	2.2
1738	7.0	203	1.3
1739	8.0	195	.7
Site 6, Devils Lake, East Bay west			
Sept. 21, 1988			
1337	0.0	540	100
1338	0.8	525	54
1339	1.6	515	10
1340	3.3	460	.9
May 9, 1989			
1207	0.0	1,700	100
1208	1.0	e1,710	52
1209	2.0	e1,710	29
1210	3.0	e1,720	23
1211	4.0	e1,730	13
1212	5.0	e1,730	8.8
1213	6.0	e1,740	4.6
1214	7.0	e1,740	2.8
1215	8.0	e1,750	1.8
1216	9.0	e1,760	1.1
1217	10.0	e1,760	.8
1218	11.0	e1,770	.5
1219	12.0	e1,780	.3
1220	13.0	e1,780	.2
1221	14.0	e1,790	.1
1222	15.0	e1,790	.1
June 20, 1989			
1357	0.0	1,250	100
1358	.5	e1,270	67
1359	1.0	e1,290	43
1400	1.5	e1,310	31
1401	2.0	e1,330	26
1402	2.5	e1,350	22
1403	3.0	e1,370	15
1404	3.5	e1,390	7.2
1405	4.0	e1,410	7.1
1406	4.5	e1,430	3.5
1407	5.0	e1,450	2.2
1408	5.5	e1,470	1.8
1409	6.0	e1,490	1.5

Table 2.--Light-transmission data for Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Date/time	Sampling depth (feet)	Intensity of incident light in the 400-700-nanometer wavelength band (in microeinsteins per square meter per second)	Incident light, percent remaining at depth
Site 6, Devils Lake, East Bay west--Continued			
June 20, 1989--Continued			
1410	6.5	e1,510	1.1
1411	7.0	e1,530	.9
1412	7.5	e1,560	.7
Oct. 26, 1989			
0953	0.0	270	100
0954	.5	e300	60
0955	1.0	e330	43
0956	1.5	360	29
0957	2.0	e410	26
0958	2.5	e470	18
0959	3.0	520	13
1000	3.5	e520	12
1001	4.0	520	8.4
1002	4.5	e460	7.6
1003	5.0	e400	5.7
1004	5.5	330	4.6
1005	6.0	e330	3.3
1006	6.5	e330	2.7
1007	7.0	330	2.1
1008	7.5	e340	1.7
1009	8.0	e360	1.3
1010	8.5	e370	1.0
1011	9.0	380	.8
May 8, 1990			
1456	0.0	1,850	100
1457	1.0	2,050	72
1458	2.0	2,000	45
1459	3.0	2,050	28
1500	4.0	2,050	20
1501	5.0	2,060	12
1502	6.0	2,100	7.9
1503	7.0	2,050	5.4
1504	8.0	580	3.1
1505	9.0	550	1.7
1506	10.0	555	1.4
Site 6, Devils Lake, East Bay west--Continued			
May 8, 1990--Continued			
1507	11.0	620	1.1
1508	12.0	820	.7
Aug. 8, 1990			
0814	0.0	527	100
0815	.5	542	71
0816	1.0	539	40
0817	1.5	540	28
0818	2.0	534	19
0819	2.5	536	13
0820	3.0	537	9.4
0821	3.5	543	5.7
0822	4.0	552	4.1
0823	4.5	552	2.9
0824	5.0	564	1.9
0825	5.5	560	1.7
0826	6.0	559	1.2
0827	6.5	547	.8
Sept. 12, 1990			
0757	0.0	136	100
0758	.5	149	52
0759	1.0	148	26
0800	1.5	136	17
0801	2.0	148	10
0802	2.5	133	6.0
0803	3.0	136	3.6
0804	3.5	143	2.3
0805	4.0	123	1.4
0806	4.5	116	.9
Site 7, Devils Lake, East Bay east			
Sept 21, 1988			
1432	0.0	630	100
1433	1.6	610	21
1434	3.3	630	16

Table 2.--Light-transmission data for Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Date/time	Sampling depth (feet)	Intensity of incident light in the 400-700-nanometer wavelength band (in microeinsteins per square meter per second)	Incident light, percent remaining at depth
Site 7, Devils Lake, East Bay east--Continued			
Sept. 21, 1988--Continued			
1435	4.9	620	4.9
1436	6.6	590	1.5
1437	8.2	610	.5
May 9, 1989			
1437	0.0	1,900	100
1438	1.0	e1,900	60
1439	2.0	e1,900	33
1440	3.0	e1,900	21
1441	4.0	e1,900	13
1442	5.0	e1,900	8.0
1443	6.0	e1,900	4.5
1444	7.0	e1,900	2.6
1445	8.0	e1,900	1.6
1446	9.0	e1,900	1.0
1447	10.0	e1,900	.7
June 20, 1989			
1536	0.0	780	100
1537	.5	e767	46
1538	1.0	e751	32
1539	1.5	e735	18
1540	2.0	e719	13
1541	2.5	e702	11
1542	3.0	e685	8.0
1543	3.5	e668	5.2
1544	4.0	e652	4.0
1545	4.5	e636	3.5
1546	5.0	e619	2.3
1547	5.5	e602	1.7
Oct. 26, 1989			
0836	0.0	30	100
0837	.5	e32	54
0838	1.0	34	42
0839	1.5	e36	27
Site 7, Devils Lake, East Bay east--Continued			
Oct. 26, 1989--Continued			
0840	2.0	38	14
0841	2.5	42	11
0842	3.0	e44	8.1
0843	3.5	e46	6.1
0844	4.0	47	4.1
0845	4.5	e48	3.4
0846	5.0	e49	2.5
0847	5.5	50	2.0
0848	6.0	e53	1.4
0849	6.5	e56	1.1
0850	7.0	58	.6
May 8, 1990			
1621	0.0	1,600	100
1622	1.0	1,650	55
1623	2.0	1,570	33
1624	3.0	1,650	20
1625	4.0	1,650	12
1626	5.0	1,600	9.4
1627	6.0	1,600	5.8
1628	7.0	1,550	4.0
1629	8.0	1,600	2.5
1630	9.0	1,580	1.6
1631	10.0	1,550	1.1
1632	11.0	1,500	.6
Aug. 8, 1990			
0923	0.0	951	100
0924	.5	925	58
0925	1.0	965	31
0926	1.5	984	23
0927	2.0	953	12
0928	2.5	971	7.0
0929	3.0	976	4.4
0930	3.5	968	3.1
0931	4.0	962	1.9

Table 2.--Light-transmission data for Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Date/time	Sampling depth (feet)	Intensity of incident light in the 400-700-nanometer wavelength band (in microeinsteins per square meter per second)	Incident light, percent remaining at depth
Site 7, Devils Lake, East Bay east--Continued			
Aug. 8, 1990--Continued			
0932	4.5	952	1.2
0933	5.0	979	.8
0934	5.5	986	.6
Sept. 12, 1990			
0938	0.0	759	100
0939	.5	785	49
0940	1.0	769	31
0941	1.5	764	18
0942	2.0	775	10
0943	2.5	782	7.7
0944	3.0	779	5.0
0945	3.5	793	3.0
0946	4.0	788	2.1
0947	4.5	804	1.3
0948	5.0	804	.9
Site 8, East Devils Lake inlet			
May 9, 1989			
1701	0.0	1,500	100
1702	1.0	e1,490	50
1703	2.0	e1,480	24
1704	3.0	e1,460	13
1705	4.0	e1,450	7.1
1706	5.0	e1,440	4.0
1707	6.0	e1,430	2.0
1708	7.0	e1,410	.9
June 21, 1989			
1630	0.0	e525	100
1631	.5	490	81
1632	1.0	490	35
1633	1.5	470	27
1634	2.0	460	15
1635	2.5	460	14
Site 8, East Devils Lake inlet--Continued			
June 21, 1989--Continued			
1636	3.0	460	9.4
1637	3.5	460	6.2
1638	4.0	460	5.0
1639	4.5	460	3.7
1640	5.0	460	2.5
1641	5.5	460	1.7
Oct. 26, 1989			
1351	0.0	220	100
1352	.5	e220	24
1353	1.0	e220	10
1354	1.5	220	3.8
1355	2.0	e218	1.2
1356	2.5	215	.5
Site 9, Devils Lake, Fort Totten Bay			
May 9, 1990			
1901	0.0	520	100
1902	1.0	2,000	52
1903	2.0	1,950	24
1904	3.0	2,010	17
1905	4.0	2,020	5.2
1906	5.0	1,150	2.2
Aug. 8, 1990			
1458	0.0	1,540	100
1459	0.5	1,550	45
1500	1.0	1,550	24
1501	1.5	1,560	13
1502	2.0	1,560	6.4
1503	2.5	1,540	3.2
1504	3.0	1,530	1.8
1505	3.5	1,560	1.0
1506	4.0	1,580	.5

Table 2.--Light-transmission data for Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Date/time	Sampling depth (feet)	Intensity of incident light in the 400-700-nanometer wavelength band (in microeinsteins per square meter per second)	Incident light, percent remaining at depth
Site 10, East Devils Lake main bay			
May 9, 1990			
1751	0.0	950	100
1752	1.0	350	43
1753	2.0	340	30
1754	3.0	290	14
1755	4.0	280	9.8
1756	5.0	250	6.1
1757	6.0	260	4.3
1758	7.0	260	3.2
1759	8.0	250	2.1
1800	9.0	260	1.4
1801	10.0	265	1.0
1802	11.0	280	.7
Aug. 8, 1990			
1337	0.0	1,730	100
1338	.5	1,730	78
1339	1.0	1,720	61
1340	1.5	1,730	49
1341	2.0	1,720	41
1342	2.5	1,720	34
1343	3.0	1,710	27
1344	3.5	1,710	23
1345	4.0	1,690	17
1346	4.5	1,720	14
1347	5.0	1,720	11
1348	5.5	1,710	9.6
1349	6.0	1,710	7.6
1350	6.5	1,710	6.4

Date/time	Sampling depth (feet)	Intensity of incident light in the 400-700-nanometer wavelength band (in microeinsteins per square meter per second)	Incident light, percent remaining at depth
Site 10, East Devils Lake main bay--Continued			
Aug. 8, 1990--Continued			
1351	7.0	1,710	5.2
1352	7.5	1,710	4.1
1353	8.0	1,700	3.7
1354	8.5	1,710	2.7
1355	9.0	1,710	2.1
1356	9.5	1,710	1.8
1357	10.0	1,720	1.5
1358	10.5	1,730	1.3
1359	11.0	1,700	1.0
1400	11.5	1,720	.7
Sept. 12, 1990			
1309	0.0	1,510	100
1310	.5	1,500	85
1311	1.0	1,470	70
1312	1.5	1,470	58
1313	2.0	1,440	42
1314	3.0	1,460	30
1315	4.0	1,460	19
1316	5.0	1,480	14
1317	6.0	1,460	8.4
1318	7.0	1,470	6.7
1319	8.0	1,450	4.6
1320	9.0	1,470	3.3
1321	10.0	1,470	2.3
1322	11.0	1,460	1.6
1323	12.0	1,460	1.1
1324	13.0	1,470	.8

Table 3.--Concentrations of water-quality constituents in water samples collected from

[µS/cm, microsiemens per centimeter at 25 degrees Celsius; mg/L, milligrams

Date	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Specific conductance, lab (µS/cm)	pH, lab (standard units)	Alkalinity, lab (mg/L as $CaCO_3$)	Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)
										Site 1, Devils Lake,
1988										
Sept. 21	0.0	1.7	3,940	8.5	439	2,860	53	140	590	54
1989										
Feb. 23	2.0	6.5	5,260	8.4	618	4,010	88	210	910	120
May 9	.0	2.5	3,590	8.5	418	2,590	56	140	490	67
June 21	.0	.9	3,970	8.4	452	2,890	59	130	610	75
Aug. 15	.0	2.0	4,480	8.9	445	3,290	55	170	730	110
Oct. 25	.0	2.1	4,980	8.6	487	3,660	58	180	850	110
1990										
Feb. 6	2.4	3.0	7,700	8.7	798	6,280	100	300	1,300	53
May 9	.0	5.5	3,900	--	395	2,270	49	140	640	73
Aug. 7	.0	1.0	4,860	8.7	506	3,550	56	180	780	95
Sept. 11	.0	1.8	5,370	8.9	511	3,960	48	190	960	110
Sept. 11	4.0	4.5	--	--	--	--	--	--	--	--
Oct. 24	.0	1.5	5,680	8.4	527	4,240	57	220	930	130
Oct. 24	2.5	4.0	--	--	--	--	--	--	--	--

Date	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Nitrogen, organic, total (mg/L as N)	Nitrogen, ammonia plus organic, total (mg/L as N)	Phosphorus, dissolved (mg/L as P)	Phosphorus, total (mg/L as P)	Orthophosphate, dissolved (mg/L as P)	Orthophosphate, total (mg/L as P)	Arsenic, dissolved (µg/L as As)
									Site 1, Devils Lake,
1988									
Sept. 21	0.0	1.7	3.3	3.5	0.04	0.30	<0.01	--	18
1989									
Feb. 23	2.0	6.5	3.9	4.3	.32	.32	.27	--	22
May 9	.0	2.5	2.0	2.1	.05	.18	.01	--	12
June 21	.0	.9	3.6	3.7	.09	.23	.06	--	12
Aug. 15	.0	2.0	5.3	5.3	.15	.31	.09	--	24
Oct. 25	.0	2.1	5.0	5.0	.04	.16	.01	--	19
1990									
Feb. 6	2.4	3.0	4.8	5.0	--	--	--	--	30
May 9	.0	5.5	8.6	8.6	.04	.74	<.01	--	16
Aug. 7	.0	1.0	4.8	4.9	.09	.41	.03	--	31
Sept. 11	.0	1.8	--	<.20	.06	.14	.07	--	32
Sept. 11	4.0	4.5	1.7	1.7	.08	.12	.02	--	--
Oct. 24	.0	1.5	4.8	5.1	.03	.12	<.01	0.11	21
Oct. 24	2.5	4.0	4.2	4.5	.02	.10	<.01	.08	--

Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990

per liter; µg/L, micrograms per liter; --, no data; <, less than]

Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrite, dissolved (mg/L as N)	Nitrogen, nitrite, total (mg/L as N)	Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	Nitrogen, nitrite plus nitrate, total (mg/L as N)	Nitrogen, ammonia, dissolved (mg/L as N)	Nitrogen, ammonia, total (mg/L as N)
West Bay									
1,400	280	0.1	26	0.01	--	<0.10	--	0.16	0.16
2,000	420	.2	35	.01	--	.14	--	.41	.45
1,200	260	.2	18	<.01	--	<.10	--	.04	.05
1,400	290	.2	23	.08	--	.92	--	.07	.08
1,600	310	.2	31	<.01	--	<.10	--	.03	.04
1,800	330	.2	24	<.01	--	<.10	--	.05	.05
3,100	590	.2	41	.01	--	.10	--	.26	.24
1,300	220	<.1	14	<.01	--	<.10	--	.05	.04
1,700	360	.1	23	<.01	--	<.10	--	.03	.05
1,800	380	.7	23	.01	--	<.10	--	.04	.12
--	--	--	--	<.01	--	<.10	--	.10	.03
2,200	370	.4	18	.03	0.06	<.10	<0.10	.20	.32
--	--	--	--	.01	.05	<.10	<.10	.21	.29

Boron, dissolved (µg/L as B)	Iron, dissolved (µg/L as Fe)	Lead, dissolved (µg/L as Pb)	Lithium, dissolved (µg/L as Li)	Manganese, dissolved (µg/L as Mn)	Mercury, dissolved (µg/L as Hg)	Molybdenum, dissolved (µg/L as Mo)	Selenium, dissolved (µg/L as Se)	Strontium, dissolved (µg/L as Sr)	Chlorophyll a, phytoplankton (µg/L)	Chlorophyll b, phytoplankton (µg/L)
West Bay--Continued										
570	60	<5	280	<10	0.1	2	<1	430	90	1.9
720	50	<5	390	90	<.1	4	<1	570	<.40	<.10
500	30	<1	260	<10	<.1	4	<1	340	100	8.8
570	40	1	290	<10	.2	3	<1	420	34	2.3
420	30	<1	340	30	.2	1	<1	510	130	2.4
770	40	<2	340	<10	.1	5	<1	450	43	2.1
1,100	50	<1	520	30	.4	6	<1	740	8.4	.60
430	40	<1	260	<10	.3	5	<1	370	19	<.80
800	40	<2	330	10	.3	<1	<1	470	71	<1.2
850	70	1	380	<10	--	<1	<1	420	59	<.90
--	--	--	--	--	--	--	--	--	--	--
860	30	<1	390	20	.2	4	<1	560	21	.90
--	--	--	--	--	--	--	--	--	--	--

Table 3.--Concentrations of water-quality constituents in water samples collected from Devils

Date	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Specific conductance, lab (µS/cm)	pH, lab (standard units)	Alkalinity, lab (mg/L as $CaCO_3$)	Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)
										Site 2, Devils Lake,
1988										
Sept. 21	0.0	10.5	3,890	8.8	441	2,800	50	140	610	63
1989										
Jan. 30	1.6	12.5	4,500	8.5	506	3,380	68	160	710	76
May 8	.0	12.0	4,010	8.6	445	2,940	63	140	630	73
June 21	.0	9.0	4,190	8.6	459	3,080	63	140	620	85
Aug. 15	.0	4.3	4,360	8.8	431	3,290	54	160	730	100
Oct. 25	.0	11.0	4,610	8.7	436	3,330	51	160	770	100
1990										
Feb. 6	2.4	11.8	5,230	9.0	506	4,070	61	190	850	130
May 8	.0	11.0	4,170	8.5	401	3,090	50	160	700	87
Aug. 7	.0	4.5	4,780	8.8	434	3,540	56	170	750	98
Sept. 11	.0	2.3	4,920	9.0	436	3,590	43	180	780	110
Sept. 11	5.0	10.0	--	--	--	--	--	--	--	--
Oct. 24	.0	8.0	5,080	8.8	461	3,790	49	190	840	110
Oct. 24	10.0	11.0	--	--	--	--	--	--	--	--

Date	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Nitrogen, organic, total (mg/L as N)	Nitrogen, ammonia plus organic, total (mg/L as N)	Phosphorus, dissolved (mg/L as P)	Phosphorus, total (mg/L as P)	Orthophosphate, dissolved (mg/L as P)	Orthophosphate, total (mg/L as P)	Arsenic, dissolved (µg/L as As)
									Site 2, Devils Lake,
1988									
Sept. 21	0.0	10.5	2.3	2.3	0.24	0.31	0.19	--	18
1989									
Jan. 30	1.6	12.5	2.4	2.5	.30	.30	.22	--	20
May 8	.0	12.0	2.4	2.4	.20	.25	.16	--	15
June 21	.0	9.0	2.6	2.7	.30	.32	.25	--	16
Aug. 15	.0	4.3	4.3	4.3	.16	.28	.12	--	21
Oct. 25	.0	11.0	2.1	2.1	.11	.13	.08	--	20
1990									
Feb. 6	2.4	11.8	2.7	2.7	--	--	--	--	89
May 8	.0	11.0	2.5	2.5	.10	.17	.08	--	15
Aug. 7	.0	4.5	3.3	3.3	.19	.30	.12	--	21
Sept. 11	.0	2.3	3.1	3.1	.05	.14	.01	--	20
Sept. 11	5.0	10.0	3.4	3.4	.04	.16	.01	--	--
Oct. 24	.0	8.0	3.1	3.2	.06	.09	.02	0.03	23
Oct. 24	10.0	11.0	2.9	3.0	.05	.07	.02	.05	--

Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrite, dissolved (mg/L as N)	Nitrogen, nitrite, total (mg/L as N)	Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	Nitrogen, nitrite plus nitrate, total (mg/L as N)	Nitrogen, ammonia, dissolved (mg/L as N)	Nitrogen, ammonia, total (mg/L as N)
Sixmile Bay									
1,300	280	0.1	27	<0.01	--	<0.10	--	<0.01	0.03
1,600	340	.2	29	<.01	--	.15	--	.17	.15
1,400	300	.2	21	<.01	--	<.10	--	.03	.03
1,500	300	.2	22	<.01	--	<.10	--	.05	.05
1,500	300	.1	28	<.01	--	<.10	--	.03	.03
1,700	310	.1	25	<.01	--	<.10	--	.05	.04
1,900	400	.2	29	<.01	--	<.10	--	.04	.03
1,700	330	<.1	21	.01	--	<.10	--	.01	.03
1,700	370	.1	15	<.01	--	<.10	--	.02	.04
1,700	350	.3	9.9	<.01	--	<.10	--	.04	.04
--	--	--	--	.01	--	<.10	--	.05	.04
2,000	340	.3	13	.02	<0.01	<.10	<0.10	.07	.09
--	--	--	--	<.01	<.01	<.10	<.10	.08	.10

Boron, dissolved (µg/L as B)	Iron, dissolved (µg/L as Fe)	Lead, dissolved (µg/L as Pb)	Lithium, dissolved (µg/L as Li)	Manganese, dissolved (µg/L as Mn)	Mercury, dissolved (µg/L as Hg)	Molybdenum, dissolved (µg/L as Mo)	Selenium, dissolved (µg/L as Se)	Strontium, dissolved (µg/L as Sr)	Chlorophyll a, phytoplankton (µg/L)	Chlorophyll b, phytoplankton (µg/L)
Sixmile Bay--Continued										
560	60	6	270	<10	0.3	3	<1	420	12	0.40
610	20	<5	330	10	<.1	5	<1	490	<.50	<.10
560	30	<1	290	<10	<.1	4	<1	380	17	1.5
610	30	<1	300	<10	<.1	3	<1	420	5.3	.40
440	20	<1	320	20	.2	2	<1	480	73	<1.4
700	20	<2	300	<10	.1	4	<1	350	4.1	.30
770	40	<1	340	10	.2	3	<1	420	2.0	<.40
610	30	<1	280	<10	.2	4	<1	400	6.6	<.60
700	50	<2	320	10	.2	<1	<1	450	18	<.60
750	40	<1	330	20	--	1	<1	460	--	--
--	--	--	--	--	--	--	--	--	--	--
780	20	<1	340	10	.2	5	<1	530	3.0	<.60
--	--	--	--	--	--	--	--	--	--	--

Table 3.--Concentrations of water-quality constituents in water samples collected from Devils

Date	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Specific conductance, lab (µS/cm)	pH, lab (standard units)	Alkalinity, lab (mg/L as $CaCO_3$)	Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)
										Site 3, Devils Lake,
1988										
Sept. 21	0.0	14.8	3,930	8.8	441	2,880	63	140	610	66
1989										
Jan. 30	2.5	19.0	4,370	8.6	485	3,250	66	160	680	83
May 8	.0	15.0	4,010	8.5	443	2,930	63	140	560	69
June 21	.0	15.0	4,250	8.7	461	3,120	65	150	660	85
Aug. 15	.0	5.7	4,360	8.8	462	3,160	69	160	720	100
Oct. 25	.0	13.0	4,570	8.8	435	3,340	50	170	730	98
1990										
Feb. 6	2.2	13.4	5,020	9.0	480	3,840	59	180	840	120
May 8	.0	11.0	4,810	8.5	471	3,660	57	190	810	100
Aug. 7	.0	4.8	4,820	8.5	433	3,500	49	180	740	96
Sept. 11	.0	2.8	4,900	8.9	463	3,600	53	190	820	97
Sept. 11	4.0	16.0	--	--	--	--	--	--	--	--
Oct. 24	.0	14.0	5,020	8.9	467	3,910	50	190	840	120
Oct. 24	15.0	17.0	--	--	--	--	--	--	--	--

Date	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Nitrogen, organic, total (mg/L as N)	Nitrogen, ammonia plus organic, total (mg/L as N)	Phosphorus, dissolved (mg/L as P)	Phosphorus, total (mg/L as P)	Orthophosphate, dissolved (mg/L as P)	Orthophosphate, total (mg/L as P)	Arsenic, dissolved (µg/L as As)
									Site 3, Devils Lake,
1988									
Sept. 21	0.0	14.8	1.9	1.9	0.24	0.29	0.19	--	18
1989									
Jan. 30	2.5	19.0	2.2	2.4	.27	.28	.20	--	20
May 8	.0	15.0	.96	1.0	.24	.28	.20	--	16
June 21	.0	15.0	2.5	2.6	.28	.32	.22	--	15
Aug. 15	.0	5.7	3.3	3.3	.26	.34	.21	--	19
Oct. 25	.0	13.0	2.1	2.1	.08	.11	.05	--	21
1990									
Feb. 6	2.2	13.4	2.6	2.6	--	--	--	--	19
May 8	.0	11.0	3.0	3.0	.13	.20	.10	--	21
Aug. 7	.0	4.8	4.2	4.2	.04	.17	<.01	--	21
Sept. 11	.0	2.8	3.1	3.1	.09	.18	.03	--	21
Sept. 11	4.0	16.0	.67	.70	.10	.14	.03	--	--
Oct. 24	.0	14.0	2.9	3.0	.05	.06	.01	0.02	23
Oct. 24	15.0	17.0	2.6	2.7	.06	.05	.01	.03	--

Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrite, dissolved (mg/L as N)	Nitrogen, nitrite, total (mg/L as N)	Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	Nitrogen, nitrite plus nitrate, total (mg/L as N)	Nitrogen, ammonia, dissolved (mg/L as N)	Nitrogen, ammonia, total (mg/L as N)
Creel Bay									
1,400	290	0.1	27	<0.01	--	<0.10	--	0.02	0.05
1,600	330	.1	29	<.01	--	.14	--	.15	.18
1,400	290	.2	23	.01	--	.12	--	.05	.04
1,500	310	.2	45	<.01	--	<.10	--	.07	.06
1,600	280	.1	26	<.01	--	<.10	--	.03	.03
1,600	350	.1	24	<.01	--	<.10	--	.02	.03
1,800	390	.2	29	<.01	--	<.10	--	.05	.03
2,000	390	<.1	26	<.01	--	<.10	--	.03	.02
1,600	360	.1	.50	<.01	--	<.10	--	.02	.04
1,700	340	.1	7.4	<.01	--	<.10	--	.05	.03
--	--	--	--	<.01	--	<.10	--	.04	.03
2,000	360	.3	12	<.01	<0.01	<.10	<0.10	.05	.07
--	--	--	--	<.01	<.01	<.10	<.10	.06	.06

Boron, dissolved (µg/L as B)	Iron, dissolved (µg/L as Fe)	Lead, dissolved (µg/L as Pb)	Lithium, dissolved (µg/L as Li)	Manganese, dissolved (µg/L as Mn)	Mercury, dissolved (µg/L as Hg)	Molybdenum, dissolved (µg/L as Mo)	Selenium, dissolved (µg/L as Se)	Strontium, dissolved (µg/L as Sr)	Chlorophyll a, phytoplankton (µg/L)	Chlorophyll b, phytoplankton (µg/L)
Creel Bay--Continued										
590	40	<5	270	<10	0.3	2	<1	420	10	0.20
600	20	<5	320	<10	.1	6	<1	470	<.50	<.10
570	20	<1	280	10	.1	2	<1	380	20	.80
600	40	<1	300	<10	.2	3	<1	420	7.3	.40
670	20	<1	310	20	.2	2	<1	460	73	<.90
670	50	<2	290	<10	<.1	4	<1	400	5.7	.20
740	90	<1	320	<10	.2	5	<1	480	5.2	<.40
720	40	<1	330	<10	.2	4	<1	450	11	<.60
710	30	<2	320	10	.3	<1	<1	440	69	<1.2
750	40	<1	330	<10	--	2	<1	400	52	<.70
--	--	--	--	--	--	--	--	--	--	--
790	10	<1	340	10	.2	4	<1	510	3.0	<.60
--	--	--	--	--	--	--	--	--	--	--

Table 3.--Concentrations of water-quality constituents in water samples collected from Devils

Date	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Specific conductance, lab (µS/cm)	pH, lab (standard units)	Alkalinity, lab (mg/L as $CaCO_3$)	Solids, residue, on evaporation at 180 degrees Celsius, dissolved (mg/L)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)
										Site 4, Devils Lake,
1988										
Sept. 20	0.0	10.2	3,910	8.8	440	2,910	63	140	620	66
1989										
Jan. 30	1.7	20.0	4,340	8.5	481	3,220	70	150	720	79
May 8	.0	13.0	4,120	8.6	458	3,060	71	160	620	64
June 21	.0	16.0	4,730	8.5	458	3,090	66	150	620	90
Aug. 15	.0	5.7	4,330	8.8	430	3,160	67	160	660	100
Oct. 25	.0	16.0	4,580	8.8	434	3,340	48	160	730	100
1990										
Feb. 6	2.2	8.7	4,980	9.1	479	3,840	63	190	830	108
May 9	.0	9.0	4,670	8.5	452	3,460	54	180	800	100
Aug. 7	.0	5.4	4,800	8.6	509	3,490	54	180	760	95
Sept. 11	.0	7.5	4,880	8.9	464	3,540	54	180	740	98
Sept. 11	6.0	7.0	--	--	--	--	--	--	--	--
Sept. 11	9.0	10.0	--	--	--	--	--	--	--	--
Sept. 11	13.0	14.0	--	--	--	--	--	--	--	--
Sept. 11	17.0	18.0	--	--	--	--	--	--	--	--
Sept. 11	20.0	21.0	4,890	8.9	460	--	52	170	830	110
Sept. 11	21.0	22.0	--	--	--	--	--	--	--	--
Oct. 24	.0	13.0	5,060	8.9	466	3,850	51	190	830	110
Oct. 24	14.0	15.0	--	--	--	--	--	--	--	--
Oct. 24	16.0	17.0	--	--	--	--	--	--	--	--
Oct. 24	18.0	19.0	--	--	--	--	--	--	--	--
Oct. 24	20.0	21.0	--	--	--	--	--	--	--	--
Oct. 24	22.0	23.0	--	--	--	--	--	--	--	--

Date	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Nitrogen, organic, total (mg/L as N)	Nitrogen, ammonia plus organic, total (mg/L as N)	Phosphorus, dissolved (mg/L as P)	Phosphorus, total (mg/L as P)	Orthophosphate, dissolved (mg/L as P)	Orthophosphate, total (mg/L as P)	Arsenic, dissolved (µg/L as As)
									Site 4, Devils Lake,
1988									
Sept. 20	0.0	10.2	2.4	2.4	0.26	0.33	0.19	--	17
1989									
Jan. 30	1.7	20.0	2.3	2.4	.27	.27	.20	--	20
May. 8	.0	13.0	2.5	2.5	.26	.31	.21	--	17
June 21	.0	16.0	2.6	2.7	.28	.30	.22	--	15
Aug. 15	.0	5.7	3.3	3.3	.23	.33	.18	--	18
Oct. 25	.0	16.0	.97	1.0	.08	.11	.05	--	18

Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrite, dissolved (mg/L as N)	Nitrogen, nitrite, total (mg/L as N)	Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	Nitrogen, nitrite plus nitrate, total (mg/L as N)	Nitrogen, ammonia, dissolved (mg/L as N)	Nitrogen, ammonia, total (mg/L as N)
Main Bay									
1,400	290	0.1	27	<0.01	--	<0.10	--	0.02	0.04
1,600	320	.1	28	<.01	--	.14	--	.15	.13
1,400	310	.2	24	.01	--	.12	--	.03	.04
1,500	310	.2	23	.02	--	.11	--	.14	.11
1,500	290	.1	25	<.01	--	<.10	--	.02	.02
1,600	350	.1	25	<.01	--	<.10	--	.02	.03
1,900	390	.2	28	<.01	--	.10	--	.04	.02
2,000	380	<.1	25	<.01	--	<.10	--	.01	.02
1,500	350	.1	1.1	<.01	--	<.10	--	.02	<.01
1,700	340	.1	8.4	<.01	--	<.10	--	.03	.02
--	--	--	--	<.01	--	<.10	--	.04	.02
--	--	--	--	<.01	--	<.10	--	.03	.02
--	--	--	--	<.01	--	<.10	--	.05	.02
--	--	--	--	<.01	--	<.10	--	.09	.03
1,700	300	.1	9.0	--	--	--	--	--	--
--	--	--	--	<.01	--	<.10	--	.03	.02
2,000	350	.3	13	<.01	<0.01	<.10	<0.10	.03	.04
--	--	--	--	<.01	<.01	<.10	<.10	.03	.03
--	--	--	--	<.01	<.01	<.10	<.10	.03	.04
--	--	--	--	<.01	<.01	<.10	<.10	.03	.03
--	--	--	--	<.01	<.01	<.10	<.10	.03	.03
--	--	--	--	<.01	<.01	<.10	<.10	.03	.03

Boron, dissolved (µg/L as B)	Iron, dissolved (µg/L as Fe)	Lead, dissolved (µg/L as Pb)	Lithium, dissolved (µg/L as Li)	Manganese, dissolved (µg/L as Mn)	Mercury, dissolved (µg/L as Hg)	Molybdenum, dissolved (µg/L as Mo)	Selenium, dissolved (µg/L as Se)	Strontium, dissolved (µg/L as Sr)	Chlorophyll a, phytoplankton (µg/L)	Chlorophyll b, phytoplankton (µg/L)
Main Bay--Continued										
570	40	<5	270	10	0.2	2	<1	420	25	0.40
600	20	<5	320	10	<.1	6	<1	460	<.50	<.10
590	20	<1	290	<10	<.1	4	<1	400	23	1.1
610	20	<1	300	<10	.1	4	<1	420	2.8	.30
660	30	<1	320	10	.3	2	<1	500	74	<.90
670	50	<2	300	<10	.1	4	<1	350	3.7	.20

Table 3.--Concentrations of water-quality constituents in water samples collected from Devils

Date	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Nitrogen, organic, total (mg/L as N)	Nitrogen, ammonia plus organic, total (mg/L as N)	Phosphorus, dissolved (mg/L as P)	Phosphorus, total (mg/L as P)	Orthophosphate, dissolved (mg/L as P)	Orthophosphate, total (mg/L as P)	Arsenic, dissolved (µg/L as As)
									Site 4, Devils Lake,
1990									
Feb. 6	2.2	8.7	2.5	2.5	--	--	--	--	22
May 9	.0	9.0	2.8	2.8	0.12	0.17	0.09	--	19
Aug. 7	.0	5.4	--	3.8	.07	.17	.01	--	21
Sept. 11	.0	7.5	1.1	1.1	.10	.11	.05	--	22
Sept. 11	6.0	7.0	2.9	2.9	.08	.11	.05	--	--
Sept. 11	9.0	10.0	3.2	3.2	.08	.12	.05	--	--
Sept. 11	13.0	14.0	3.0	3.0	.08	.10	.05	--	--
Sept. 11	17.0	18.0	2.9	2.9	.07	.10	.04	--	--
Sept. 11	20.0	21.0	--	--	--	--	--	--	--
Sept. 11	21.0	22.0	--	<0.20	.12	.10	.05	--	--
Oct. 24	.0	13.0	3.0	3.0	.05	.06	.02	0.02	24
Oct. 24	14.0	15.0	2.6	2.6	.03	.06	.01	.02	--
Oct. 24	16.0	17.0	2.7	2.7	.04	.05	.02	.02	--
Oct. 24	18.0	19.0	2.8	2.8	.05	.06	.01	.03	--
Oct. 24	20.0	21.0	2.9	2.9	.04	.06	.01	.03	--
Oct. 24	22.0	23.0	2.6	2.6	.04	.06	.01	.03	--

Date	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Specific conductance, lab (µS/cm)	pH, lab (standard units)	Alkalinity, lab (mg/L as $CaCO_3$)	Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)
										Site 5, Devils Lake,
1988										
Sept. 21	0.0	9.8	4,930	8.9	468	2,910	60	180	920	85
1989										
Feb. 22	2.1	14.8	5,810	8.5	528	4,390	76	230	1,000	100
May 8	.0	13.0	4,920	8.6	452	3,700	66	180	780	88
June 21	.0	13.0	5,160	8.7	480	3,870	64	180	820	110
Aug. 15	.0	6.3	5,190	8.8	458	3,840	61	190	860	120
Oct. 26	.0	10.5	5,680	8.8	459	4,210	52	200	950	120
1990										
Feb. 6	2.7	12.3	6,080	9.0	526	4,790	65	230	1,000	150
May 8	.0	14.0	5,560	8.6	463	4,160	56	210	990	120
Aug. 7	.0	4.2	5,800	8.7	451	4,300	52	210	970	53
Sept. 11	.0	2.6	5,780	8.8	475	4,290	48	200	1,000	120
Sept. 11	5.0	12.0	--	--	--	--	--	--	--	--
Oct. 24	.0	8.0	5,990	8.8	491	4,690	55	220	1,100	130
Oct. 24	10.0	12.0	--	--	--	--	--	--	--	--

Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Boron, dissolved (µg/L as B)	Iron, dissolved (µg/L as Fe)	Lead, dissolved (µg/L as Pb)	Lithium, dissolved (µg/L as Li)	Manganese, dissolved (µg/L as Mn)	Mercury, dissolved (µg/L as Hg)	Molybdenum, dissolved (µg/L as Mo)	Selenium, dissolved (µg/L as Se)	Strontium, dissolved (µg/L as Sr)	Chlorophyll a, phytoplankton (µg/L)	Chlorophyll b, phytoplankton (µg/L)
Main Bay--Continued										
750	140	<1	320	<10	0.2	4	<1	480	3.4	<0.40
690	30	<1	320	<10	.2	3	<1	440	6.6	<.60
700	30	<2	320	10	.2	1	<1	470	38	<.60
730	40	1	330	<10	.2	<1	<1	420	12	<.60
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
780	20	<1	330	10	.2	3	<1	510	1.9	<.60
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--

Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrite, dissolved (mg/L as N)	Nitrogen, nitrite, total (mg/L as N)	Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	Nitrogen, nitrite plus nitrate, total (mg/L as N)	Nitrogen, ammonia, dissolved (mg/L as N)	Nitrogen, ammonia, total (mg/L as N)
Mission Bay									
1,800	370	0.1	21	<0.01	--	<0.10	--	0.07	0.09
2,200	480	.2	24	.02	--	.22	--	.25	.28
1,800	380	.2	17	<.01	--	<.10	--	.03	.03
1,900	410	.1	23	.01	--	<.10	--	.11	.09
1,900	370	.1	16	<.01	--	<.10	--	.01	.03
2,200	450	.1	14	.01	--	<.10	--	.06	.06
2,400	490	.2	21	<.01	--	<.10	--	.12	.10
2,500	480	<.1	16	<.01	--	<.10	--	.02	.02
2,100	330	<.1	4.7	<.01	--	<.10	--	.02	<.01
2,100	400	.9	10	<.01	--	<.10	--	.04	.03
--	--	--	--	<.01	--	<.10	--	.06	.04
2,400	430	.3	14	<.01	<0.01	<.10	<0.10	.06	.06
--	--	--	--	<.01	<.01	<.10	<.10	.06	.07

Table 3.--Concentrations of water-quality constituents in water samples collected from Devils

Date	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Nitrogen, organic, total (mg/L as N)	Nitrogen, ammonia plus organic, total (mg/L as N)	Phosphorus, dissolved (mg/L as P)	Phosphorus, total (mg/L as P)	Orthophosphate, dissolved (mg/L as P)	Orthophosphate, total (mg/L as P)	Arsenic, dissolved (µg/L as As)
									Site 5, Devils Lake,
1988									
Sept. 21	0.0	9.8	2.7	2.8	0.18	0.27	0.12	--	20
1989									
Feb. 22	2.1	14.8	3.1	3.4	.25	.25	.20	--	22
May 8	.0	13.0	2.5	2.5	.20	.25	.16	--	16
June 21	.0	13.0	2.5	2.6	.27	.33	.23	--	16
Aug. 15	.0	6.3	3.6	3.6	.14	.25	.10	--	22
Oct. 26	.0	10.5	2.3	2.4	.04	.08	<.01	--	19
1990									
Feb. 6	2.7	12.3	3.0	3.1	--	--	--	--	19
May 8	.0	14.0	3.0	3.0	.09	.14	.06	--	19
Aug. 7	.0	4.2	--	3.8	.07	.17	.02	--	23
Sept. 11	.0	2.6	--	<.20	.06	.15	<.01	--	26
Sept. 11	5.0	12.0	--	<.20	.08	.09	<.01	--	--
Oct. 24	.0	8.0	3.3	3.4	.03	.07	<.01	0.02	27
Oct. 24	10.0	12.0	3.1	3.2	.03	.06	<.01	.02	--

Date	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Specific conductance, lab (µS/cm)	pH, lab (standard units)	Alkalinity, lab (mg/L as $CaCO_3$)	Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)
										Site 6, Devils Lake,
1988										
Sept. 21	0.0	3.3	6,210	8.6	495	4,710	60	230	1,100	110
1989										
Feb. 23	2.4	12.4	6,980	8.5	572	5,510	77	270	1,300	130
May 9	.0	9.0	6,220	8.6	504	4,790	67	220	1,100	100
June 20	.0	6.8	6,320	8.6	507	4,810	75	220	1,100	130
Aug. 15	.0	1.8	6,570	8.7	543	4,940	72	240	1,100	140
Oct. 26	.0	8.5	6,790	8.7	492	5,140	56	240	1,300	150
1990										
Feb. 7	2.7	14.0	7,750	8.9	586	6,270	73	280	1,400	180
May 8	.0	11.0	6,600	8.5	497	5,060	60	250	1,200	140
Aug. 8	.0	6.3	6,810	8.7	507	5,170	60	250	1,100	140
Sept. 12	.0	4.4	6,980	8.7	518	5,080	60	250	1,200	150
Sept. 12	6.0	7.0	--	--	--	--	--	--	--	--
Sept. 12	8.5	9.5	--	--	--	--	--	--	--	--
Sept. 12	11.0	12.0	--	--	--	--	--	--	--	--
Oct. 25	.0	2.5	7,200	8.6	527	5,590	60	270	1,300	160
Oct. 25	3.0	4.0	--	--	--	--	--	--	--	--
Oct. 25	6.0	7.0	--	--	--	--	--	--	--	--
Oct. 25	9.0	10.0	--	--	--	--	--	--	--	--
Oct. 25	12.0	13.0	--	--	--	--	--	--	--	--

Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Boron, dissolved (µg/L as B)	Iron, dissolved (µg/L as Fe)	Lead, dissolved (µg/L as Pb)	Lithium, dissolved (µg/L as Li)	Manganese, dissolved (µg/L as Mn)	Mercury, dissolved (µg/L as Hg)	Molybdenum, dissolved (µg/L as Mo)	Selenium, dissolved (µg/L as Se)	Strontium, dissolved (µg/L as Sr)	Chlorophyll a, phytoplankton (µg/L)	Chlorophyll b, phytoplankton (µg/L)
Mission Bay--Continued										
730	40	<5	340	10	0.3	3	<1	440	48	0.50
840	100	<5	420	20	<.1	6	<1	530	<.40	<.10
700	20	<1	340	<10	.1	5	<1	390	14	.50
780	50	<1	360	<10	.1	4	<1	460	8.2	<.20
780	40	<1	370	10	.2	3	<1	530	49	<.90
840	30	<2	360	<10	<.1	6	<1	350	18	.30
910	80	<1	380	<10	.3	5	<1	500	1.5	<.40
820	30	<1	360	<10	.4	6	<1	450	4.8	<.60
880	30	<2	390	10	.2	2	<1	480	31	<.60
900	40	1	390	<10	--	2	<1	380	73	<1.5
--	--	--	--	--	--	--	--	--	--	--
930	20	<1	400	10	--	6	<1	560	6.5	<.60
--	--	--	--	--	--	--	--	--	--	--

Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrite, dissolved (mg/L as N)	Nitrogen, nitrite, total (mg/L as N)	Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	Nitrogen, nitrite plus nitrate, total (mg/L as N)	Nitrogen, ammonia, dissolved (mg/L as N)	Nitrogen, ammonia, total (mg/L as N)
East Bay west									
2,400	520	0.1	16	0.01	--	<0.10	--	0.21	0.12
2,800	580	.2	20	.02	--	.32	--	.32	.35
2,400	510	.2	13	<.01	--	<.10	--	.03	.03
2,400	510	.1	16	.04	--	.15	--	.11	.10
2,600	500	.1	14	<.01	--	<.10	--	.03	.03
2,600	500	.1	8.6	.02	--	.12	--	.16	.18
3,100	650	.1	16	.01	--	.20	--	.44	.43
3,100	450	<.1	11	<.01	--	<.10	--	.02	.02
2,500	550	<.1	.90	<.01	--	<.10	--	.03	.13
2,500	520	.4	13	.01	--	<.10	--	.06	.05
--	--	--	--	.02	--	<.10	--	.09	.05
--	--	--	--	.01	--	<.10	--	.07	.05
--	--	--	--	.02	--	<.10	--	.10	.06
2,900	670	.4	16	.02	0.01	<.10	<0.10	.03	.04
--	--	--	--	<.01	.01	<.10	<.10	.03	.04
--	--	--	--	<.01	<.01	<.10	<.10	.03	.04
--	--	--	--	.01	.01	<.10	<.10	.03	.04
--	--	--	--	.01	.02	<.10	<.10	.03	.05

Table 3.--Concentrations of water-quality constituents in water samples collected from Devils

Date	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Nitrogen, organic, total (mg/L as N)	Nitrogen, ammonia plus organic, total (mg/L as N)	Phosphorus, dissolved (mg/L as P)	Phosphorus, total (mg/L as P)	Orthophosphate, dissolved (mg/L as P)	Orthophosphate, total (mg/L as P)	Arsenic, dissolved (µg/L as As)
									Site 6, Devils Lake,
1988									
Sept. 21	0.0	3.3	3.0	3.1	0.11	0.15	0.10	--	24
1989									
Feb. 23	2.4	12.4	3.5	3.8	.25	.25	.20	--	25
May 9	.0	9.0	5.6	5.6	.19	.25	.14	--	19
June 20	.0	6.8	3.0	3.1	.29	.32	.23	--	17
Aug. 15	.0	1.8	5.6	5.6	.23	.47	.16	--	23
Oct. 26	.0	8.5	3.2	3.4	.06	.09	.02	--	23
1990									
Feb. 7	2.7	14.0	3.5	3.9	--	--	--	--	19
May 8	.0	11.0	3.2	3.2	.08	.13	.04	--	20
Aug. 8	.0	6.3	3.8	3.9	.14	.21	.08	--	22
Sept. 12	.0	4.4	2.0	2.0	.10	.10	.03	--	31
Sept. 12	6.0	7.0	3.5	3.5	.07	.11	.03	--	--
Sept. 12	8.5	9.5	3.4	3.4	.08	.10	.03	--	--
Sept. 12	11.0	12.0	3.6	3.7	.07	.10	.03	--	--
Oct. 25	.0	2.5	3.9	3.9	.07	.10	.02	0.04	31
Oct. 25	3.0	4.0	3.4	3.4	.06	.08	.02	.04	--
Oct. 25	6.0	7.0	3.8	3.8	.05	.09	.02	.06	--
Oct. 25	9.0	10.0	3.5	3.5	.04	.08	.03	.06	--
Oct. 25	12.0	13.0	3.5	3.6	.04	.09	.02	.05	--

Date	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Specific conductance, lab (µS/cm)	pH, lab (standard units)	Alkalinity, lab (mg/L as $CaCO_3$)	Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)
										Site 7, Devils Lake,
1988										
Sept. 21	0.0	7.4	6,480	8.8	506	4,460	64	230	1,100	150
1989										
Feb. 23	1.9	13.5	7,400	8.5	598	5,890	77	280	1,200	160
May 9	.0	9.0	6,330	8.7	501	4,880	64	220	1,100	120
June 20	.0	6.0	6,550	8.6	510	4,990	70	310	1,100	130
Aug. 15	.0	8.0	6,830	8.8	529	5,200	72	250	1,200	150
Oct. 26	.0	6.6	7,100	8.7	514	5,450	60	260	1,300	150
1990										
Feb. 7	2.4	12.4	8,030	8.9	599	6,500	77	290	1,400	200
May 8	.0	10.0	6,750	8.6	503	5,260	62	250	1,200	150
Aug. 8	.0	4.8	7,110	8.6	442	5,500	58	260	1,200	150
Sept. 12	.0	4.9	7,260	8.7	526	5,510	60	270	1,300	160
Sept. 12	7.0	12.0	--	--	--	--	--	--	--	--
Oct. 25	.0	2.6	7,480	8.6	538	5,810	65	270	1,400	170
Oct. 25	6.0	12.0	--	--	--	--	--	--	--	--

Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Boron, dissolved (µg/L as B)	Iron, dissolved (µg/L as Fe)	Lead, dissolved (µg/L as Pb)	Lithium, dissolved (µg/L as Li)	Manganese, dissolved (µg/L as Mn)	Mercury, dissolved (µg/L as Hg)	Molybdenum, dissolved (µg/L as Mo)	Selenium, dissolved (µg/L as Se)	Strontium, dissolved (µg/L as Sr)	Chlorophyll a, phytoplankton (µg/L)	Chlorophyll b, phytoplankton (µg/L)
East Bay west--Continued										
950	50	<5	430	10	0.2	6	<1	480	48	0.30
1,000	80	<5	500	10	.1	8	<1	550	<.40	<.10
910	20	<1	420	10	<.1	6	<1	440	24	2.1
940	40	<1	430	<10	.1	5	<1	460	11	<.20
1,000	30	<1	450	<10	.2	4	<1	550	150	<2.8
1,100	30	<2	420	10	.1	7	<1	400	4.6	<.20
1,200	30	<1	480	10	.4	6	<1	470	<.40	<.40
990	40	<1	430	<10	.2	6	<1	490	6.9	<.60
1,100	30	<2	450	10	.2	4	<1	520	21	<.60
1,100	30	<1	460	<10	--	8	<1	440	4.0	<.60
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
1,100	40	<1	480	20	.2	8	<1	600	20.0	<.50
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--

Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrite, dissolved (mg/L as N)	Nitrogen, nitrite, total (mg/L as N)	Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	Nitrogen, nitrite plus nitrate, total (mg/L as N)	Nitrogen, ammonia, dissolved (mg/L as N)	Nitrogen, ammonia, total (mg/L as N)
East Bay east									
2,300	460	0.1	11	0.02	--	<0.10	--	0.32	0.28
3,000	640	.2	19	.02	--	.32	--	.48	.52
2,400	500	.1	12	<.01	--	<.10	--	.05	.04
2,500	540	.1	15	.04	--	.13	--	.21	.16
2,700	520	.1	19	<.01	--	<.10	--	.05	.04
2,800	530	.1	14	.03	--	<.10	--	.16	.14
3,400	690	.2	16	.02	--	.20	--	.53	.51
3,200	450	<.1	12	<.01	--	<.10	--	.02	.02
2,600	590	<.1	4.9	<.01	--	<.10	--	.03	.06
2,800	590	2.1	13	.02	--	<.10	--	.09	.09
--	--	--	--	.03	--	<.10	--	.10	.09
3,200	690	.3	15	.02	0.01	<.10	<0.10	.05	.07
--	--	--	--	<.01	.02	<.10	<.10	.05	.07

Table 3.--Concentrations of water-quality constituents in water samples collected from Devils

Date	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Nitrogen, organic, total (mg/L as N)	Nitrogen, ammonia plus organic, total (mg/L as N)	Phosphorus, dissolved (mg/L as P)	Phosphorus, total (mg/L as P)	Orthophosphate, dissolved (mg/L as P)	Orthophosphate, total (mg/L as P)	Arsenic, dissolved (µg/L as As)
									Site 7, Devils Lake,
1988									
Sept. 21	0.0	7.4	3.4	3.7	0.17	0.25	0.11	--	24
1989									
Feb. 23	1.9	13.5	3.6	4.1	.29	.30	.24	--	5
May 9	.0	9.0	3.0	3.0	.16	.21	.11	--	20
June 20	.0	6.0	2.7	2.9	.27	.28	.21	--	18
Aug. 15	.0	8.0	4.9	4.9	.23	.30	.16	--	21
Oct. 26	.0	6.6	3.4	3.5	.07	.13	.05	--	24
1990									
Feb. 7	2.4	12.4	3.5	4.0	--	--	--	--	19
May 8	.0	10.0	3.4	3.4	.09	.15	.04	--	20
Aug. 8	.0	4.8	4.2	4.3	.11	.20	.05	--	28
Sept. 12	.0	4.9	2.3	2.4	.04	.12	<.01	--	24
Sept. 12	7.0	12.0	2.0	2.1	.06	.09	.01	--	--
Oct. 25	.0	2.6	3.8	3.9	.07	.10	.03	0.04	29
Oct. 25	6.0	12.0	3.7	3.8	.04	.08	.02	.04	--

Date	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Specific conductance, lab (µS/cm)	pH, lab (standard units)	Alkalinity, lab (mg/L as $CaCO_3$)	Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)
										Site 8, East
1988										
Sept. 21	0.0	6.0	8,970	8.8	572	6,680	54	340	1,600	140
1989										
Feb. 22	1.9	10.0	12,700	8.3	842	11,000	110	500	2,500	290
May 9	.0	7.0	8,700	8.8	530	7,010	66	300	1,600	120
June 21	.0	6.0	9,310	8.7	602	7,450	64	180	1,700	190
Aug. 15	.0	4.3	11,000	8.9	579	9,110	66	400	2,200	250
Oct. 26	.0	2.1	11,900	8.7	650	9,860	73	430	2,400	260
1990										
Feb. 7	2.5	2.8	20,200	8.7	1,230	19,100	130	780	4,400	450

Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Boron, dissolved (µg/L as B)	Iron, dissolved (µg/L as Fe)	Lead, dissolved (µg/L as Pb)	Lithium, dissolved (µg/L as Li)	Manganese, dissolved (µg/L as Mn)	Mercury, dissolved (µg/L as Hg)	Molybdenum, dissolved (µg/L as Mo)	Selenium, dissolved (µg/L as Se)	Strontium, dissolved (µg/L as Sr)	Chlorophyll a, phytoplankton (µg/L)	Chlorophyll b, phytoplankton (µg/L)
East Bay east--Continued										
890	40	<5	450	<10	0.2	6	<1	490	43	<0.30
1,100	70	<5	530	20	<.1	8	<1	590	<.40	<.10
930	30	<1	430	10	.1	6	<1	440	14	.50
990	50	<1	440	10	.1	6	<1	480	2.2	<.20
1,100	30	<1	470	20	.1	4	<1	530	23	<.40
1,200	40	<2	450	<10	.1	7	<1	450	38	.40
1,300	40	<1	500	20	.3	6	<1	610	<.40	<.40
1,000	40	<1	440	<10	.2	5	<1	490	12	<.60
1,100	40	<2	460	10	.3	5	<1	540	60	<1.2
1,200	30	<2	480	<10	--	6	<1	490	32	<.60
--	--	--	--	--	--	--	--	--	--	--
1,200	20	<1	480	10	.1	9	<1	600	17	<.50
--	--	--	--	--	--	--	--	--	--	--

Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrite, dissolved (mg/L as N)	Nitrogen, nitrite, total (mg/L as N)	Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	Nitrogen, nitrite plus nitrate, total (mg/L as N)	Nitrogen, ammonia, dissolved (mg/L as N)	Nitrogen, ammonia, total (mg/L as N)
Devils Lake inlet									
3,500	710	<0.1	11	--	--	--	--	--	0.78
5,600	1,200	.1	16	<0.01	--	<0.10	--	2.40	2.60
3,700	710	.1	4.5	<.01	--	<.10	--	.04	.04
2,900	780	.1	19	.05	--	<.10	--	.32	.27
4,800	860	.1	13	<.01	--	<.10	--	.03	.04
5,400	1,100	.1	.70	<.01	--	<.10	--	.03	.05
9,800	2,000	.2	15	.01	--	<.10	--	1.60	1.60

Table 3.--Concentrations of water-quality constituents in water samples collected from Devils

Date	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Nitrogen, organic, total (mg/L as N)	Nitrogen, ammonia plus organic, total (mg/L as N)	Phosphorus, dissolved (mg/L as P)	Phosphorus, total (mg/L as P)	Orthophosphate, dissolved (mg/L as P)	Orthophosphate, total (mg/L as P)	Arsenic, dissolved (µg/L as As)
									Site 8, East
1988									
Sept. 21	0.0	6.0	4.2	5.0	0.12	0.17	--	--	33
1989									
Feb. 22	1.9	10.0	4.1	6.7	.73	.74	0.66	--	32
May 9	.0	7.0	3.8	3.8	.09	.13	.03	--	18
June 21	.0	6.0	3.9	4.2	.30	.33	.23	--	19
Aug. 15	.0	4.3	5.7	5.7	.13	.21	.08	--	40
Oct. 26	.0	2.1	8.3	8.4	.05	.17	<.01	--	18
1990									
Feb. 7	2.5	2.8	3.4	5.0	--	--	--	--	36

Date	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Specific conductance, lab (µS/cm)	pH, lab (standard units)	Alkalinity, lab (mg/L as $CaCO_3$)	Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)
										Site 9, Devils Lake,
1990										
Feb. 7	2.2	5.7	3,040	8.6	587	2,210	90	150	390	38
May 9	.0	6.0	1,750	8.3	333	1,200	55	78	200	32
Aug. 8	.0	3.5	1,770	8.4	252	1,170	33	83	220	34

Date	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Nitrogen, organic, total (mg/L as N)	Nitrogen, ammonia plus organic, total (mg/L as N)	Phosphorus, dissolved (mg/L as P)	Phosphorus, total (mg/L as P)	Orthophosphate, dissolved (mg/L as P)	Orthophosphate, total (mg/L as P)	Arsenic, dissolved (µg/L as As)
									Site 9, Devils Lake,
1990									
Feb. 7	2.2	5.7	2.8	2.9	0.02	0.03	<0.01	--	3
May 9	.0	6.0	2.1	2.1	.02	.10	<.01	--	2
Aug. 8	.0	3.5	4.0	4.0	.05	.18	<.01	--	8

Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Boron, dissolved (µg/L as B)	Iron, dissolved (µg/L as Fe)	Lead, dissolved (µg/L as Pb)	Lithium, dissolved (µg/L as Li)	Manganese, dissolved (µg/L as Mn)	Mercury, dissolved (µg/L as Hg)	Molybdenum, dissolved (µg/L as Mo)	Selenium, dissolved (µg/L as Se)	Strontium, dissolved (µg/L as Sr)	Chlorophyll a, phytoplankton (µg/L)	Chlorophyll b, phytoplankton (µg/L)
Devils Lake inlet--Continued										
1,200	50	<5	580	10	0.2	4	<1	430	11	<0.1
1,700	90	<5	900	170	<.1	4	<1	700	<.40	<.1
1,200	40	<1	570	20	.1	5	<1	400	14	.7
1,400	60	<1	610	20	.1	6	<1	520	5.8	1.1
1,600	50	<1	750	20	.2	5	<1	610	40	<.50
1,700	60	<4	750	10	<.1	7	<1	500	89	4.6
3,000	150	<1	1,500	170	.4	8	<1	1,200	37	6.7

Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrite, dissolved (mg/L as N)	Nitrogen, nitrite, total (mg/L as N)	Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	Nitrogen, nitrite plus nitrate, total (mg/L as N)	Nitrogen, ammonia, dissolved (mg/L as N)	Nitrogen, ammonia, total (mg/L as N)
Fort Totten Bay									
980	160	0.4	8.4	<0.01	--	<0.10	--	0.11	0.09
530	84	.3	1.7	<.01	--	<.10	--	.01	.01
510	95	.2	.90	<.01	--	<.10	--	.02	.05

Boron, dissolved (µg/L as B)	Iron, dissolved (µg/L as Fe)	Lead, dissolved (µg/L as Pb)	Lithium, dissolved (µg/L as Li)	Manganese, dissolved (µg/L as Mn)	Mercury, dissolved (µg/L as Hg)	Molybdenum, dissolved (µg/L as Mo)	Selenium, dissolved (µg/L as Se)	Strontium, dissolved (µg/L as Sr)	Chlorophyll a, phytoplankton (µg/L)	Chlorophyll b, phytoplankton (µg/L)
Fort Totten Bay--Continued										
660	30	1	300	40	0.4	2	<1	740	3.1	<0.40
370	7	1	160	4	.2	2	<1	430	7.1	<.60
430	8	<1	180	6	.3	<1	<1	380	24	.60

Table 3.--Concentrations of water-quality constituents in water samples collected from Devils

Date	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Specific conductance, lab (µS/cm)	pH, lab (standard units)	Alkalinity, lab (mg/L as $CaCO_3$)	Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)
										Site 10, East Devils
1990										
May 9	0.0	10.0	12,100	8.6	697	10,200	91	450	2,400	250
Aug. 8	.0	11.0	12,200	8.8	703	9,940	91	470	2,300	260
Sept. 12	.0	12.5	12,400	8.8	675	10,400	90	460	2,300	290
Sept. 12	13.0	14.0	--	--	--	--	--	--	--	--
Sept. 12	16.0	17.0	--	--	--	--	--	--	--	--
Sept. 12	19.0	20.0	--	--	--	--	--	--	--	--
Sept. 12	22.0	23.0	--	--	--	--	--	--	--	--
Sept. 12	23.0	24.0	12,400	8.7	674	--	94	450	2,400	260
Sept. 12	25.0	26.0	--	--	--	--	--	--	--	--
Oct. 25	.0	7.5	12,600	8.7	706	10,800	86	470	2,400	260
Oct. 25	8.0	9.0	--	--	--	--	--	--	--	--
Oct. 25	12.0	13.0	--	--	--	--	--	--	--	--
Oct. 25	16.0	17.0	--	--	--	--	--	--	--	--
Oct. 25	20.0	21.0	--	--	--	--	--	--	--	--
Oct. 25	24.0	25.0	--	--	--	--	--	--	--	--

Date	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Nitrogen, organic, total (mg/L as N)	Nitrogen, ammonia plus organic, total (mg/L as N)	Phosphorus, dissolved (mg/L as P)	Phosphorus, total (mg/L as P)	Orthophosphate, dissolved (mg/L as P)	Orthophosphate, total (mg/L as P)	Arsenic, dissolved (µg/L as As)
									Site 10, East Devils
1990									
May 9	0.0	10.0	4.5	4.5	0.27	0.34	0.23	--	39
Aug. 8	.0	11.0	3.6	3.7	.37	.43	.27	--	34
Sept. 12	.0	12.5	3.3	3.3	.28	.34	.26	--	31
Sept. 12	13.0	14.0	1.5	1.5	.31	.33	.27	--	--
Sept. 12	16.0	17.0	3.2	3.2	.28	.33	.27	--	--
Sept. 12	19.0	20.0	2.5	2.5	.28	.33	.27	--	--
Sept. 12	22.0	23.0	2.1	2.1	.30	.33	.26	--	--
Sept. 12	23.0	24.0	--	--	--	--	--	--	--
Sept. 12	25.0	26.0	3.3	3.3	.25	.33	.24	--	--
Oct. 25	.0	7.5	4.5	4.5	.19	.23	.16	0.17	37
Oct. 25	8.0	9.0	4.4	4.4	.17	.22	.15	.18	--
Oct. 25	12.0	13.0	4.5	4.5	.18	.22	.16	.17	--
Oct. 25	16.0	17.0	4.4	4.4	.18	.22	.16	.17	--
Oct. 25	20.0	21.0	4.4	4.4	.18	.22	.16	.17	--
Oct. 25	24.0	25.0	4.4	4.4	.18	.22	.16	.18	--

Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Sulfate dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)	Silica, dissolved (mg/L as SiO_2)	Nitrogen, nitrite, dissolved (mg/L as N)	Nitrogen, nitrite, total (mg/L as N)	Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	Nitrogen, nitrite plus nitrate, total (mg/L as N)	Nitrogen, ammonia, dissolved (mg/L as N)	Nitrogen, ammonia, total (mg/L as N)
Lake main bay									
4,500	1,200	<0.1	8.4	<0.01	--	<0.10	--	0.02	0.03
5,300	1,100	<.1	13	<.01	--	<.10	--	.02	.05
5,500	1,100	1.3	11	<.01	--	<.10	--	.02	.03
--	--	--	--	<.01	--	<.10	--	.02	.03
--	--	--	--	<.01	--	<.10	--	.04	.03
--	--	--	--	<.01	--	<.10	--	.02	.03
--	--	--	--	<.01	--	<.10	--	.03	.03
5,400	1,200	.2	11	--	--	--	--	--	--
--	--	--	--	<.01	--	<.10	--	.05	.03
5,700	1,200	<.1	10	.02	<0.01	<.10	<0.10	.02	.02
--	--	--	--	.02	<.01	<.10	<.10	.02	.02
--	--	--	--	<.01	<.01	<.10	<.10	.02	.02
--	--	--	--	<.01	<.01	<.10	<.10	.02	.02
--	--	--	--	<.01	<.01	<.10	<.10	.02	.02
--	--	--	--	<.01	<.01	<.10	<.10	.01	.03

Boron, dissolved (µg/L as B)	Iron, dissolved (µg/L as Fe)	Lead, dissolved (µg/L as Pb)	Lithium, dissolved (µg/L as Li)	Manganese, dissolved (µg/L as Mn)	Mercury, dissolved (µg/L as Hg)	Molybdenum, dissolved (µg/L as Mo)	Selenium, dissolved (µg/L as Se)	Strontium, dissolved (µg/L as Sr)	Chlorophyll a, phytoplankton (µg/L)	Chlorophyll b, phytoplankton (µg/L)
Lake main bay--Continued										
1,800	60	<1	780	10	0.1	3	<1	570	21	1.7
1,800	50	<4	820	20	.2	<1	<1	580	8.0	<.60
1,800	70	<4	800	20	--	3	<1	490	6.0	<.60
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
1,900	<10	<1	840	20	.1	4	<1	630	16	<.50
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990

[The first line values are the biovolume in cubic microns per milliliter; the second line values are the density in cells per milliliter; var., variety; sp., species; f., form]

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
					Site 1, Devils Lake, West Bay						
Bacillariophyta											
Amphora veneta	0	0	0	0	0	0	0	182,336	0	0	0
	0	0	0	0	0	0	0	296	0	0	0
Cyclotella meneghiniana	67,228	0	705,125	23,898	145,467	0	0	1,673,443	3,674,358	0	359,731
	125	0	625	10	63	0	0	111	737	0	384
Cyclotella stelligera	4,129	0	0	0	0	494,900	0	41,810	0	0	134,323
	16	0	0	0	0	3,500	0	370	0	0	2,816
Entomoeneis paludosa	0	0	3,718,500	0	0	0	0	0	0	0	0
	0	0	125	0	0	0	0	0	0	0	0
Epithemia adnata	0	0	0	0	0	0	0	83,889	0	0	0
	0	0	0	0	0	0	0	37	0	0	0
Epithemia argus	0	0	157,450	0	0	0	0	0	0	0	0
	0	0	125	0	0	0	0	0	0	0	0
Fragilaria capucina var. mesolepta	0	0	0	0	0	0	0	34,336	0	0	0
	0	0	0	0	0	0	0	148	0	0	0
Gyrosigma spencerii	0	0	0	0	0	342,000	0	0	0	0	0
	0	0	0	0	0	16	0	0	0	0	0
Navicula capitata	0	0	0	4,428	0	0	0	765,021	0	0	0
	0	0	0	12	0	0	0	481	0	0	0
Navicula capitata var. capitata	0	0	67,838	0	0	0	0	0	0	0	0
	0	0	125	0	0	0	0	0	0	0	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
						Site 1, Devils Lake, West Bay--Continued					
Bacillariophyta--Continued											
Navicula	0	0	67,500	0	0	0	0	0	0	0	0
capitata var. hungarica	0	0	125	0	0	0	0	0	0	0	0
Navicula cincta	0	0	0	0	0	0	0	0	0	0	9,139
	0	0	0	0	0	0	0	0	0	0	64
Navicula heufleri	0	0	0	0	0	0	0	0	0	0	28,275
	0	0	0	0	0	0	0	0	0	0	64
Navicula miniscula	0	0	0	0	0	24,300	0	0	0	0	0
	0	0	0	0	0	1,000	0	0	0	0	0
Navicula subminiscula	0	0	0	0	0	0	0	0	0	0	36,864
	0	0	0	0	0	0	0	0	0	0	1,024
Navicula vaucheriae	0	0	55,225	0	13,797	17,955	0	0	0	0	0
	0	0	250	0	438	63	0	0	0	0	0
Navicula ventosa	0	0	0	0	0	0	0	0	0	0	62,208
	0	0	0	0	0	0	0	0	0	0	1,152
Nitzchia adapta	0	0	428,000	0	0	0	0	0	0	0	0
	0	0	250	0	0	0	0	0	0	0	0
Nitzchia frustulum	0	0	0	0	0	0	0	101,350	0	0	0
	0	0	0	0	0	0	0	592	0	0	0
Nitzchia halophila	0	0	0	0	0	0	0	30,938	0	0	61,440
	0	0	0	0	0	0	0	37	0	0	256
Nitzchia hungarica	0	0	0	6,754	0	86,184	0	214,186	6,403,190	0	123,328
	0	0	0	4	0	63	0	148	1,273	0	128

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
	Site 1, Devils Lake, West Bay--Continued										
Bacillariophyta--Continued											
Nitzchia	20,225	0	811,250	600	0	22,780	0	31,731	64,103	6,000	0
kuetzingiana	125	0	125	30	0	125	0	148	469	125	0
Nitzchia	0	0	0	0	0	0	0	315,462	0	0	0
lorenziana	0	0	0	0	0	0	0	74	0	0	0
Nitzchia palea	0	0	0	0	0	0	0	23,088	59,925	0	14,400
	0	0	0	0	0	0	0	37	125	0	64
Nitzchia	0	0	595,175	273	0	49,896	0	645,280	339,288	0	161,229
tryblionella	0	0	125	4	0	63	0	148	67	0	64
Nitzchia	0	0	0	0	0	0	0	0	0	418,187	0
umbonata	0	0	0	0	0	0	0	0	0	125	0
Melosira	0	0	0	10,608	0	0	0	0	0	0	38,605
granulata var. angustissima	0	0	0	28	0	0	0	0	0	0	256
Stephanodiscus	0	0	544,000	825,156	0	69,362	0	25,436,832	3,270,250	0	0
alpinus	0	0	125	24	0	16	0	962	125	0	0
Stephanodiscus	0	0	32,513	7,339	0	0	0	0	0	19,438	0
dubius	0	0	375	90	0	0	0	0	0	125	0
Stephanodiscus	0	0	0	0	0	0	0	0	0	0	10,854
hantzschii	0	0	0	0	0	0	0	0	0	0	64
Stephanodiscus	865,876	0	0	0	0	0	0	0	0	0	1,130,938
niagarae	250	0	0	0	0	0	0	0	0	0	64

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
					Site 1, Devils Lake, West Bay--Continued						
Bacillariophyta--Continued											
Stephanodiscus	0	115	0	0	0	0	0	0	0	4,762,013	0
sp.	0	1	0	0	0	0	0	0	0	63	0
Surirella ovalis	0	0	0	0	0	0	0	675,602	0	0	0
	0	0	0	0	0	0	0	111	0	0	0
Surirella ovata	0	0	685,440	0	0	0	0	0	0	0	0
	0	0	16	0	0	0	0	0	0	0	0
Surirella	0	0	0	0	0	0	0	14,368,284	0	0	0
robusta	0	0	0	0	0	0	0	37	0	0	0
Synedra	21,504	0	0	0	0	0	0	0	0	0	0
fasciculata	16	0	0	0	0	0	0	0	0	0	0
Synedra	0	0	0	0	0	0	0	0	0	0	131,328
fasciculata var. truncata	0	0	0	0	0	0	0	0	0	0	64
Total	978,962	115	7,868,016	879,056	159,264	1,107,377	0	44,623,588	13,811,114	5,205,638	2,302,662
	532	1	2,391	202	501	4,846	0	3,737	2,796	438	6,464
Chlorophyta											
Ankistrodesmus	0	0	338,538	33,956	0	141,400	0	475,000	0	0	0
falcatus var. falcatus	0	0	6,625	938	0	2,000	0	5,000	0	0	0
Ankyra judayi	0	0	0	0	0	0	0	0	5,198	0	0
	0	0	0	0	0	0	0	0	63	0	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
	Site 1, Devils Lake, West Bay--Continued										
Chlorophyta--Continued											
Chlamydomonas	0	0	0	0	25,350	2,407	0	0	3,812	0	0
sp.	0	0	0	0	250	63	0	0	63	0	0
Chlorella sp.	299,988	0	1,763	103,000	8,400	2,436,000	2,625	73,500	115,500	35,700	479,850
	29,125	0	125	10,000	2,000	580,000	625	17,500	27,500	8,500	114,250
Chlorococcum sp.	22,450	0	0	0	0	0	4,123	0	0	0	0
	125	0	0	0	0	0	63	0	0	0	0
Coccomyxa sp.	0	0	0	2,336,000	48,800	0	0	0	0	0	0
	0	0	0	1,460,000	30,500	0	0	0	0	0	0
Coelastrum	0	0	61,800	0	0	0	0	0	0	0	0
microporum	0	0	3,000	0	0	0	0	0	0	0	0
Crucigenia	0	0	581,950	0	0	0	0	0	0	0	0
apiculata	0	0	28,250	0	0	0	0	0	0	0	0
Crucigenia	16,275	0	0	0	15,450	253,800	0	0	6,438	72,100	39,950
quadrata	3,875	0	0	0	750	18,000	0	0	625	3,500	4,250
Crucigenia	0	0	0	47,700	0	0	0	0	0	0	0
tetrapedia	0	0	0	6,625	0	0	0	0	0	0	0
Coenochloris	0	0	197,325	0	0	0	0	0	0	0	0
pyrenoidosa	0	0	125	0	0	0	0	0	0	0	0
Coenochloris sp.	0	0	0	55,750	0	0	0	0	0	0	0
	0	0	0	1,250	0	0	0	0	0	0	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
	Site 1, Devils Lake, West Bay--Continued										
Chlorophyta--Continued											
Dictyosphaerium	0	0	0	0	0	0	0	0	0	3,938	0
ehrenbergianum	0	0	0	0	0	0	0	0	0	625	0
Dictyosphaerium	0	0	41,200	0	0	0	0	0	0	0	0
pulchellum	0	0	500	0	0	0	0	0	0	0	0
Dunaliella sp.	0	0	0	0	0	0	3,900	0	0	0	40,838
	0	0	0	0	0	0	750	0	0	0	125
Dysmorphococcus	0	0	0	0	0	126,000	0	0	0	0	0
sp.	0	0	0	0	0	15,000	0	0	0	0	0
Gloeocystis	0	0	0	0	0	0	0	0	0	481,050	0
gigas	0	0	0	0	0	0	0	0	0	375	0
Kirchneriella	0	0	0	0	0	35,000	0	0	0	0	0
contorta	0	0	0	0	0	3,500	0	0	0	0	0
Kirchneriella	0	0	0	0	0	11,755	0	0	0	0	0
elongata	0	0	0	0	0	250	0	0	0	0	0
Kirchneriella	20,750	0	5,125	0	8,575	319,800	6,150	686,750	19,250	2,600	20,250
lunaris	1,250	0	625	0	1,750	39,000	750	83,750	2,750	500	6,750
Kirchneriella	0	0	0	0	0	0	0	0	16,750	39,800	125,400
subsolitaria	0	0	0	0	0	0	0	0	125	250	6,000
Mesotaenium sp.	0	0	0	0	0	6,300	0	0	0	0	0
	0	0	0	0	0	1,000	0	0	0	0	0
Microspora sp.	21,250	0	0	0	0	0	0	0	984,250	0	0
	125	0	0	0	0	0	0	0	1,250	0	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
						Site 1, Devils Lake, West Bay--Continued					
Chlorophyta--Continued											
Monoraphidium	0	0	0	0	0	0	0	0	0	0	17,675
contortum	0	0	0	0	0	0	0	0	0	0	250
Monoraphidium	0	0	0	0	0	414,600	0	0	0	0	0
minutum	0	0	0	0	0	2,000	0	0	0	0	0
Monoraphidium	4,175	0	0	0	0	357,700	0	0	0	0	1,768
mirabile	125	0	0	0	0	7,000	0	0	0	0	63
Nannochloris sp.	0	0	0	0	0	0	583,450	7,281,750	0	0	19,525
	0	0	0	0	0	0	208,375	1,733,750	0	0	17,750
Nephrocytium	0	0	0	0	0	664,250	0	0	0	0	0
agardhianum	0	0	0	0	0	2,500	0	0	0	0	0
Nephrocytium	0	0	0	0	0	0	0	0	3,338	0	0
limnetica	0	0	0	0	0	0	0	0	125	0	0
Nephrocytium	0	0	0	0	40,750	0	0	0	0	0	0
lunatus	0	0	0	0	250	0	0	0	0	0	0
Nephrocytium sp.	28,300	0	0	0	0	0	0	0	0	0	0
	500	0	0	0	0	0	0	0	0	0	0
Oocystis borgei	0	0	0	0	0	354,400	0	0	0	0	0
	0	0	0	0	0	2,000	0	0	0	0	0
Oocystis crassa	0	0	0	0	0	0	0	8,681	0	0	0
	0	0	0	0	0	0	0	63	0	0	0
Oocystis pusilla	81,200	57	0	0	0	0	0	0	0	0	0
	2,000	2	0	0	0	0	0	0	0	0	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
	Site 1, Devils Lake, West Bay--Continued										
Chlorophyta--Continued											
Oocystis sp.	42,410	0	89,600	0	0	9,800	0	0	36,450	0	340,050
	1,125	0	2,000	0	0	1,000	0	0	375	0	500
Pediastrum	205,250	0	0	304,027	0	18,560	0	0	254,462	164,800	0
boryanum	500	0	0	688	0	42	0	0	4,500	2,000	0
Pediastrum	0	0	9,413	0	589,063	1,581	0	3,138	0	1,508	0
duplex	0	0	375	0	625	63	0	125	0	16	0
Pseudo-	0	0	0	0	0	0	0	0	0	0	54,400
sphaerocystis lacustris	0	0	0	0	0	0	0	0	0	0	1,000
Scenedesmus	5,050	0	35,200	0	0	0	0	0	0	0	0
abundans	500	0	2,750	0	0	0	0	0	0	0	0
Scenedesmus	0	0	260	0	0	12,550	0	0	145,100	0	0
acuminatus	0	0	31	0	0	500	0	0	1,000	0	0
Scenedesmus	0	0	0	3,675	0	0	0	0	0	0	0
bicaudatus	0	0	0	250	0	0	0	0	0	0	0
Scenedesmus	237	0	33,625	1,838	10,088	282,450	0	0	6,300	1,575	21,525
ecornus	21	0	1,250	375	375	10,500	0	0	750	188	5,125
Scenedesmus	50,312	0	202,750	1,298	0	12,775	0	0	0	0	0
linearis	250	0	2,500	16	0	250	0	0	0	0	0
Scenedesmus	28,274	0	82,500	0	0	0	0	0	0	0	0
opoliensis	500	0	375	0	0	0	0	0	0	0	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
	Site 1, Devils Lake, West Bay--Continued										
Chlorophyta--Continued											
Scenedesmus quadricauda	0 0	0 0	0 0	0 0	0 0	0 0	0 0	105,000 25,000	0 0	0 0	0 0
Scenedesmus subspicatus	0 0	0 0	0 0	0 0	0 0	5,475 250	0 0	0 0	0 0	6,300 500	0 0
Scenedesmus sp.	20,038 875	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Schroederia setigera	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	3,219 63	3,830 63	7,600 125
Tetrastrum heterocanthum	10,300 1,000	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Tetrastrum staurogeniaeforme	0 0	0 0	6,300 1,500	0 0	0 0	178,250 11,500	0 0	0 0	106,000 4,000	0 0	0 0
Total	856,259 41,896	57 2	1,687,349 50,031	2,887,244 1,480,142	746,476 36,500	5,230,253 694,418	600,248 210,563	8,633,819 1,865,188	1,706,067 43,189	813,201 16,517	1,168,831 156,188
Cryptophyta											
Chroomonas sp.	0 0	0 0	0 0	0 0	26,132 188	0 0	0 0	0 0	0 0	12,000 125	0 0
Cryptomonas marsonii	0 0	0 0	0 0	0 0	0 0	421,738 63	0 0	0 0	0 0	0 0	0 0
Total	0 0	0 0	0 0	0 0	26,132 188	421,738 63	0 0	0 0	0 0	12,000 125	0 0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
					Site 1, Devils Lake, West Bay--Continued						
Cyanophyta											
Anacystis	385,000	0	799,850	0	0	0	0	0	0	0	0
nidulans	385,000	0	470,500	0	0	0	0	0	0	0	0
Anacystis	0	0	0	0	0	12,000	0	0	0	0	0
saxicola	0	0	0	0	0	7,500	0	0	0	0	0
Anacystis sp.	0	2,074	0	600,000	24,700	73,950	1,988	0	38,200	698,275	119,850
	0	1,296	0	500,000	19,000	25,500	1,125	0	23,875	410,750	67,500
Aphanizomenon	943,740	0	0	0	2,006,593	164,600	0	0	60,725	4,038,488	7,098,932
flos aquae	7,350	0	0	0	18,063	2,000	0	0	875	57,000	87,135
Aphanocapsa	90,000	0	16,200	45,000	7,200	0	0	0	0	9,900	20,700
delicatissima	50,000	0	9,000	25,000	4,000	0	0	0	0	5,500	11,500
Aphanocapsa	0	0	0	0	0	0	0	0	17,850	0	0
elachista	0	0	0	0	0	0	0	0	4,250	0	0
Aphanocapsa	4,969,633	0	97,500	141,250	15,500	2,500	0	1,320,750	407,925	0	0
elachista var. conferta	1,627,500	0	97,500	141,250	15,500	1,250	0	733,750	226,625	0	0
Chroococcus	443,540	144	0	0	0	0	0	0	0	0	0
dispersus	31,375	14	0	0	0	0	0	0	0	0	0
Chroococcus	90,125	0	0	0	20,600	0	0	0	0	0	0
minimus	8,750	0	0	0	2,000	0	0	0	0	0	0
Chroococcus sp.	0	0	4,183,000	0	0	0	0	0	8,813	0	0
	0	0	997,000	0	0	0	0	0	625	0	0
Coelosphaerium	176,800	0	0	0	0	0	0	0	0	0	0
dubium	3,250	0	0	0	0	0	0	0	0	0	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
	Site 1, Devils Lake, West Bay--Continued										
Cyanophyta--Continued											
Coelosphaerium	0	0	0	0	0	168,000	0	0	0	0	0
kuetzingianum	0	0	0	0	0	48,000	0	0	0	0	0
Dactylococcopsis	8,813	0	18,288	2,613	0	73,150	1,913	77,500	0	0	18,400
fascicularis	625	0	875	125	0	3,500	125	2,500	0	0	2,000
Dactylococcopsis	2,925	0	0	0	0	14,700	0	0	0	0	0
raphidioides	1,625	0	0	0	0	1,000	0	0	0	0	0
Lyngbya birgei	0	0	0	0	3,588,375	0	0	0	465,600	549,600	0
	0	0	0	0	4,375	0	0	0	4,000	1,500	0
Lyngbya	0	0	0	0	0	0	0	85,000	0	0	0
limnetica	0	0	0	0	0	0	0	21,250	0	0	0
Marsoniella	0	0	1,688	0	0	0	0	0	0	2,250	0
elegans	0	0	625	0	0	0	0	0	0	1,250	0
Mersomopedia	17,016	0	0	0	0	1,000	0	0	9,250	3,750	594
tenuissima	32,500	0	0	0	0	1,250	0	0	9,250	3,750	330
Mersomopedia sp.	0	0	0	0	24	0	0	0	0	0	0
	0	0	0	0	16	0	0	0	0	0	0
Microcystis	1,346,760	0	1,884,900	770,550	9,347,291	690,100	0	2,211,451	6,802,125	8,296,250	0
aeruginosa	7,830	0	22,875	6,813	113,438	8,375	0	26,838	70,125	85,250	0
Microcystis	1,470,000	286	0	0	0	0	0	0	0	0	0
incerta	350,000	162	0	0	0	0	0	0	0	0	0
Nodularia	0	0	0	0	0	0	0	0	0	4,800,282	76,940
spumigena	0	0	0	0	0	0	0	0	0	12,478	200

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
	Site 1, Devils Lake, West Bay--Continued										
Cyanophyta--Continued											
Oscillatoria	0	0	0	9,338	0	0	0	0	0	0	0
subtilissima	0	0	0	1,125	0	0	0	0	0	0	0
Oscillatoria	54,000	0	0	0	0	0	0	0	0	0	0
tenuis var. tergestina	2,250	0	0	0	0	0	0	0	0	0	0
Oscillatoria sp.	154,275	0	0	0	0	0	0	0	0	0	0
	4,250	0	0	0	0	0	0	0	0	0	0
Phormidium	0	0	0	0	19,200	0	0	0	0	3,000	0
mucicola	0	0	0	0	2,000	0	0	0	0	750	0
Pseudabaena sp.	1,350	0	0	0	0	0	0	0	0	0	0
	375	0	0	0	0	0	0	0	0	0	0
Rhabdoderma	0	54	0	0	0	0	0	0	0	0	0
sigmoidea f. minor	0	34	0	0	0	0	0	0	0	0	0
Synechococcus sp.	0	247	0	0	0	0	0	0	0	0	0
	0	29	0	0	0	0	0	0	0	0	0
Total	10,153,977	2,805	7,001,426	1,568,751	15,029,483	1,200,000	3,901	3,694,701	7,810,488	18,401,795	7,335,416
	2,512,680	1,535	1,598,375	674,313	178,392	98,375	1,250	784,338	339,625	578,228	168,665

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	1-30-89	5-9-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
						Site 2, Devils Lake, Sixmile Bay					
Bacillariophyta											
Cyclotella	0	6,110	0	0	0	0	0	0	0	0	0
meneghiniana	0	3	0	0	0	0	0	0	0	0	0
Cyclotella	0	0	0	0	0	400,838	0	0	0	0	44,900
stelligera	0	0	0	0	0	2,625	0	0	0	0	250
Diatoma tenue	0	0	0	0	0	0	0	38,437	0	0	0
var. tenue	0	0	0	0	0	0	0	94	0	0	0
Navicula	0	0	0	0	0	0	0	0	26,180	0	0
cryptocephala	0	0	0	0	0	0	0	0	125	0	0
Navicula	0	0	0	0	0	0	0	0	5,141	0	0
miniscula	0	0	0	0	0	0	0	0	63	0	0
Navicula	0	0	10,960	0	0	0	0	0	0	0	0
vaucheriae	0	0	188	0	0	0	0	0	0	0	0
Navicula sp.	0	0	0	16,538	1,985	10,935	0	0	0	0	0
	0	0	0	125	63	250	0	0	0	0	0
Nitzchia	0	0	0	88,641	0	0	0	0	0	0	0
hungarica	0	0	0	63	0	0	0	0	0	0	0
Nitzchia	2,915	0	0	0	0	0	0	17,050	0	0	0
kuetzingiana	16	0	0	0	0	0	0	31	0	0	0
Stephanodiscus	0	0	178,862	0	0	75,450	0	0	0	0	0
dubius	0	0	2,063	0	0	1,500	0	0	0	0	0
Stephanodiscus	0	0	0	0	0	0	0	0	28,345,425	2,343,213	0
sp.	0	0	0	0	0	0	0	0	375	31	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	1-30-89	5-9-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
	Site 2, Devils Lake, Sixmile Bay--Continued										
Bacillariophyta--Continued											
Surirella ovata	0 0	0 0	2,698,920 63	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Synedra acus	0 0	0 0	197,400 125	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Total	2,915 16	6,110 3	3,086,142 2,439	105,179 188	1,985 63	487,223 4,375	0 0	55,487 125	28,376,746 563	2,343,213 31	44,900 250
Chlorophyta											
Ankyra judayi	0 0	0 0	0 0	20,349 1,938	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Chlamydomonas sp.	0 0	0 0	0 0	18,325 625	19,063 188	0 0	0 0	434 31	20,582 63	40,838 125	0 0
Chlorella sp.	1,936 188	0 0	46,713 3,313	59,225 5,750	0 0	19,950 4,750	525 125	525 125	1,315 313	0 0	10,500 2,500
Chlorogonium sp.	14,038 125	973 12	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Coccomyxa sp.	0 0	0 0	0 0	420,000 262,500	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Crucigenia quadrata	17,397 563	0 0	20,938 625	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Dunaliella viridis	0 0	0 0	0 0	0 0	0 0	0 0	49,358 125	0 0	0 0	0 0	0 0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	1-30-89	5-9-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
						Site 2, Devils Lake, Sixmile Bay--Continued					
Chlorophyta--Continued											
Dunaliella sp.	0	0	0	0	0	0	5,200	0	0	0	143,095
	0	0	0	0	0	0	1,000	0	0	0	438
Elakatothrix viridis	0	0	0	0	0	0	0	0	2,419	0	0
	0	0	0	0	0	0	0	0	63	0	0
Kirchneriella lunaris	1,560	0	2,567	0	0	81,113	300,325	1,796	50,400	0	42,750
	94	0	313	0	0	12,875	36,625	219	6,000	0	14,250
Kirchneriella subsolitaria	0	0	0	0	0	0	0	0	0	0	5,225
	0	0	0	0	0	0	0	0	0	0	250
Nannochloris sp.	0	0	0	0	0	149,813	455,000	3,455,750	138	0	74,938
	0	0	0	0	0	10,625	162,500	751,250	125	0	68,125
Oocystis pusilla	0	0	0	0	0	33,950	0	0	0	0	0
	0	0	0	0	0	500	0	0	0	0	0
Oocystis sp.	19,221	0	0	0	0	0	0	0	170,025	10,882	0
	94	0	0	0	0	0	0	0	250	16	0
Pediastrum duplex	0	0	0	0	0	0	0	0	12,100	0	0
	0	0	0	0	0	0	0	0	500	0	0
Pseudo-sphaerocystis lacustris	0	0	0	0	0	0	0	0	0	0	870
	0	0	0	0	0	0	0	0	0	0	16
Scenedesmus ecornus	0	0	6,725	0	0	1,047	0	617	0	0	0
	0	0	250	0	0	125	0	63	0	0	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date 9-21-88	1-30-89	5-9-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
					Site 2, Devils Lake, Sixmile Bay--Continued						
Chlorophyta--Continued											
Schroederia	50,376	0	6,597	0	0	0	0	0	3,830	0	0
setigera	31	0	63	0	0	0	0	0	63	0	0
Total	104,528	973	83,540	517,899	19,063	285,873	810,408	3,459,122	260,809	51,720	277,378
	1,095	12	4,564	270,813	188	28,875	200,375	751,688	7,377	141	85,579
Chrysophyta											
Chromulina sp.	0	32	0	0	0	0	0	0	0	0	0
	0	3	0	0	0	0	0	0	0	0	0
Total	0	32	0	0	0	0	0	0	0	0	0
	0	3	0	0	0	0	0	0	0	0	0
Cryptophyta											
Chroomonas sp.	27,225	489	0	26,132	104,250	36,000	6,048	0	12,000	0	24,000
	375	3	0	188	750	375	63	0	125	0	250
Cryptomonas	107,108	0	0	0	0	0	0	0	0	0	0
marsonii	16	0	0	0	0	0	0	0	0	0	0
Total	134,333	489	0	26,132	104,250	36,000	6,048	0	12,000	0	24,000
	391	3	0	188	750	375	63	0	125	0	250

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	1-30-89	5-9-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
					Site 2, Devils Lake, Sixmile Bay--Continued						
Cyanophyta											
Anabaena	0	0	0	244,500	0	0	0	0	0	0	0
flos aquae	0	0	0	3,000	0	0	0	0	0	0	0
Anacystis	3,400	0	2,338	0	0	13,940	0	0	0	0	0
nidulans	2,125	0	1,375	0	0	8,875	0	0	0	0	0
Anacystis sp.	6,124	462	33,075	0	0	0	0	0	211,725	7,200	50,175
	4,711	289	18,375	0	0	0	0	0	117,625	4,500	28,375
Aphanizomenon	388,446	0	0	318,858	13,207,160	538,675	0	0	490,138	17,753,400	234,225
flos aquae	2,488	0	0	3,063	117,600	185,750	0	0	7,063	252,000	3,375
Aphanocapsa	6,750	0	1,125	788	5,063	0	0	0	0	0	0
delicatissima	3,750	0	625	438	2,813	0	0	0	0	0	0
Aphanocapsa	13,244	0	10,063	37,375	250	29,750	0	0	0	0	0
elachista var. conferta	10,188	0	10,063	37,375	250	29,750	0	0	0	0	0
Chroococcus	9,701	25	16,000	0	0	0	0	0	0	0	0
dispersus	688	6	2,500	0	0	0	0	0	0	0	0
Chroococcus sp.	0	0	80,065	0	0	0	0	0	0	0	0
	0	0	19,063	0	0	0	0	0	0	0	0
Coelosphaerium	0	0	0	0	0	0	0	0	0	0	6,300
collinsii	0	0	0	0	0	0	0	0	0	0	1,000
Coelosphaerium	0	0	0	55,125	0	0	0	0	0	0	0
naegelianum	0	0	0	1,125	0	0	0	0	0	0	0
Dactylococcopsis	750	0	6,542	0	0	0	964	0	0	0	1,150
fascicularis	63	0	313	0	0	0	63	0	0	0	125

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	1-30-89	5-9-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
					Site 2, Devils Lake, Sixmile Bay--Continued						
Cyanophyta--Continued											
Dactylococcopsis	0	0	0	0	0	7,350	0	0	0	0	0
sp.	0	0	0	0	0	500	0	0	0	0	0
Gomphosphaeria	0	0	0	0	0	0	0	0	0	287,000	0
aponina	0	0	0	0	0	0	0	0	0	2,000	0
Lyngbya birgei	0	0	0	0	3,389,060	0	0	0	5,862	0	0
	0	0	0	0	4,133	0	0	0	16	0	0
Marsoniella	0	0	1,183	0	0	0	0	0	0	0	0
elegans	0	0	438	0	0	0	0	0	0	0	0
Mersomopedia	0	0	0	0	0	2,000	0	0	0	0	0
tenuissima	0	0	0	0	0	2,500	0	0	0	0	0
Microcystis	606,039	24,047	6,592	897,788	8,455,313	169,991	0	2,554	3,298,000	4,207,375	0
aeruginosa	6,248	63	80	7,938	102,613	2,063	0	31	34,000	43,375	0
Nodularia	0	0	0	0	3,156	0	0	0	0	6,155	0
spumigena	0	0	0	0	13	0	0	0	0	16	0
Oscillatoria	0	0	0	0	0	14,700	0	0	0	0	0
hamelii	0	0	0	0	0	1,000	0	0	0	0	0
Phormidium	0	0	0	10,297	13,805	0	0	0	500	0	0
mucicola	0	0	0	1,688	1,438	0	0	0	125	0	0
Rhabdoderma	0	38	0	0	2,438	0	785	0	0	0	0
sigmoidea	0	24	0	0	625	0	500	0	0	0	0
f. minor											

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date 9-21-88	1-30-89	5-9-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
					Site 2, Devils Lake, Sixmile Bay--Continued						
Cyanophyta--Continued											
Rhabdogloea	0	0	1,988	0	0	0	0	0	0	0	0
ellipsoidea	0	0	125	0	0	0	0	0	0	0	0
Synechococcus sp.	21,438	0	0	0	0	0	0	0	0	0	0
	6,125	0	0	0	0	0	0	0	0	0	0
Total	1,055,892	24,572	158,971	1,564,731	25,076,245	776,406	1,749	2,554	4,006,225	22,261,130	291,850
	36,386	382	52,957	54,627	229,485	230,438	563	31	158,829	301,891	32,875

Organism scientific name Family Genus species	Date 9-21-88	1-30-89	5-8-89	6-21-89	8-15-89	10-25-89	2-6-90	5-8-90	8-7-90	9-11-90	10-24-90
					Site 3, Devils Lake, Creel Bay						
Bacillariophyta											
Achnanthes	0	0	0	0	0	0	0	0	0	0	60,480
clevei	0	0	0	0	0	0	0	0	0	0	63
Chaetoceros	0	0	0	0	0	104,461	0	0	617,668	0	0
elmorei	0	0	0	0	0	31	0	0	438	0	0
Chaetoceros sp.	251,367	0	0	0	123,152	0	0	0	0	0	0
	63	0	0	0	63	0	0	0	0	0	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	1-30-89	5-8-89	6-21-89	8-15-89	10-25-89	2-6-90	5-8-90	8-7-90	9-11-90	10-24-90
					Site 3, Devils Lake, Creel Bay--Continued						
Bacillariophyta--Continued											
Cyclotella	0	6,785	0	0	0	0	0	0	0	0	0
kutzingiana	0	6	0	0	0	0	0	0	0	0	0
Cyclotella	22,563	0	0	1,748,672	6,652,961	0	0	0	0	0	0
meneghiniana	16	0	0	31	313	0	0	0	0	0	0
Cyclotella	0	0	0	0	0	397,667	0	0	0	0	17,671
stelligera	0	0	0	0	0	2,813	0	0	0	0	125
Cyclotella sp.	7,322	0	0	0	0	0	0	0	0	0	0
	31	0	0	0	0	0	0	0	0	0	0
Diatoma tenue	0	0	1,455	0	0	0	0	0	0	0	0
	0	0	5	0	0	0	0	0	0	0	0
Diatoma tenue	0	0	0	0	0	0	0	2,453	0	0	0
var. tenue	0	0	0	0	0	0	0	6	0	0	0
Entomoeneis	1,766,794	0	0	0	0	0	0	0	0	0	0
alata	16	0	0	0	0	0	0	0	0	0	0
Entomoeneis	0	0	89,244	0	0	0	0	0	0	0	0
paludosa	0	0	3	0	0	0	0	0	0	0	0
Fragilaria sp.	0	0	52,721	0	0	0	0	0	0	0	0
	0	0	76	0	0	0	0	0	0	0	0
Navicula	0	0	4,768	0	0	0	0	0	0	0	0
accomoda	0	0	8	0	0	0	0	0	0	0	0
Navicula	0	0	0	76,875	0	0	0	0	0	0	0
capitata	0	0	0	625	0	0	0	0	0	0	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	1-30-89	5-8-89	6-21-89	8-15-89	10-25-89	2-6-90	5-8-90	8-7-90	9-11-90	10-24-90
					Site 3, Devils Lake, Creel Bay--Continued						
Bacillariophyta--Continued											
Navicula	0	0	0	0	0	0	0	0	13,040	0	0
cryptocephala	0	0	0	0	0	0	0	0	63	0	0
Navicula	0	0	0	0	0	69,194	0	0	0	0	0
miniscula	0	0	0	0	0	1,125	0	0	0	0	0
Navicula sp.	0	0	0	0	3,938	0	0	0	0	0	0
	0	0	0	0	125	0	0	0	0	0	0
Nitzchia	60,857	0	6,860	5,313	10,346	0	0	0	0	0	0
kuetzingiana	376	0	35	31	63	0	0	0	0	0	0
Nitzchia	0	0	12,794	0	0	0	0	0	0	0	0
linearis	0	0	3	0	0	0	0	0	0	0	0
Nitzchia palea	0	0	3,256	0	0	0	0	0	0	0	0
	0	0	3	0	0	0	0	0	0	0	0
Nitzchia	0	0	2,442	0	0	0	0	0	0	0	0
reversa	0	0	5	0	0	0	0	0	0	0	0
Nitzchia	0	0	8,800	0	0	0	0	0	0	0	0
tryblionella	0	0	5	0	0	0	0	0	0	0	0
Stephanodiscus	0	0	5,713,206	0	0	0	0	118,336	0	0	0
dubius	0	0	24,188	0	0	0	0	688	0	0	0
Stephanodiscus	0	0	0	0	0	43,372	0	0	0	0	0
hantzschii	0	0	0	0	0	625	0	0	0	0	0
Stephanodiscus	0	0	0	0	0	0	0	0	0	0	28,863
tenuis	0	0	0	0	0	0	0	0	0	0	125

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	1-30-89	5-8-89	6-21-89	8-15-89	10-25-89	2-6-90	5-8-90	8-7-90	9-11-90	10-24-90
					Site 3, Devils Lake, Creel Bay--Continued						
Bacillariophyta--Continued											
Stephanodiscus	0	0	0	0	0	0	0	0	37,793,900	2,343,213	0
sp.	0	0	0	0	0	0	0	0	500	31	0
Surirella ovalis	0	0	214,200	0	0	0	0	0	0	0	0
	0	0	5	0	0	0	0	0	0	0	0
Surirella ovata	0	0	157,902	0	0	0	0	0	0	0	0
	0	0	16	0	0	0	0	0	0	0	0
Synedra acus	0	0	7,896	0	0	0	0	48,116	0	0	0
	0	0	5	0	0	0	0	13	0	0	0
Synedra	0	0	0	22,005	0	0	0	0	0	0	0
pulchella	0	0	0	6	0	0	0	0	0	0	0
Total	2,108,903	6,785	6,275,544	1,852,865	6,790,397	614,694	0	168,905	38,424,608	2,343,213	107,014
	502	6	24,357	693	564	4,594	0	707	1,001	31	313
Chlorophyta											
Ankistrodesmus	0	0	562	0	0	0	0	0	0	0	0
falcatus var. falcatus	0	0	11	0	0	0	0	0	0	0	0
Ankyra judayi	1,407	0	0	17,063	0	0	0	0	0	0	0
	16	0	0	1,625	0	0	0	0	0	0	0
Chlamydomonas sp.	2,260	1,110	0	21,101	0	0	0	0	61,420	0	0
	63	12	0	313	0	0	0	0	188	0	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	1-30-89	5-8-89	6-21-89	8-15-89	10-25-89	2-6-90	5-8-90	8-7-90	9-11-90	10-24-90
	Site 3, Devils Lake, Creel Bay--Continued										
Chlorophyta--Continued											
Chlorella	0	392	0	0	0	0	0	0	0	0	0
vulgaris	0	6	0	0	0	0	0	0	0	0	0
Chlorella sp.	0	0	318,250	39,913	0	31,500	1,050	24,675	1,315	0	15,750
	0	0	9,500	3,875	0	7,500	250	5,875	313	0	3,750
Chlorococcum sp.	9,921	0	0	8,175	0	0	0	0	0	0	0
	63	0	0	125	0	0	0	0	0	0	0
Chlorogonium sp.	44,850	5,835	0	0	0	0	0	0	0	0	0
	125	29	0	0	0	0	0	0	0	0	0
Closteriopsis	295,741	0	0	0	0	0	0	0	0	0	0
longissima	31	0	0	0	0	0	0	0	0	0	0
Coccomyxa sp.	0	0	0	477,800	0	0	0	0	0	0	0
	0	0	0	298,625	0	0	0	0	0	0	0
Crucigenia	0	0	3,149	0	0	0	0	0	0	0	0
quadrata	0	0	173	0	0	0	0	0	0	0	0
Dunaliella	0	0	0	0	0	98,715	0	123,604	0	0	0
viridis	0	0	0	0	0	250	0	313	0	0	0
Dunaliella sp.	0	0	0	0	0	0	9,792	0	0	61,420	163,350
	0	0	0	0	0	0	1,875	0	0	188	500
Gloecoccus sp.	0	0	0	50,647	0	0	0	0	0	0	0
	0	0	0	188	0	0	0	0	0	0	0
Gloeocystis	62,428	0	0	0	0	0	0	0	0	0	0
major	16	0	0	0	0	0	0	0	0	0	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	1-30-89	5-8-89	6-21-89	8-15-89	10-25-89	2-6-90	5-8-90	8-7-90	9-11-90	10-24-90
						Site 3, Devils Lake, Creel Bay--Continued					
Chlorophyta--Continued											
Kirchneriella	0	0	0	0	0	12,047	0	0	0	0	650
contorta	0	0	0	0	0	1,438	0	0	0	0	125
Kirchneriella	0	107	0	1,325	0	58,800	219,350	59,450	0	0	32,250
lunaris	0	6	0	250	0	6,000	26,750	7,250	0	0	10,750
Monoraphidium	0	0	0	0	0	0	0	7,000	0	0	0
contortum	0	0	0	0	0	0	0	500	0	0	0
Mougeotia sp.	316,060	0	0	0	0	0	0	0	0	0	0
	16	0	0	0	0	0	0	0	0	0	0
Nannochloris sp.	0	0	0	0	0	246,800	811,300	2,553,575	0	688	27,625
	0	0	0	0	0	102,875	289,750	555,125	0	625	21,250
Nephrocytium sp.	0	0	0	3,422	0	0	0	0	0	0	0
	0	0	0	188	0	0	0	0	0	0	0
Oocystis parva	31,427	0	0	0	0	0	0	0	0	0	0
	219	0	0	0	0	0	0	0	0	0	0
Oocystis pusilla	0	0	0	0	0	13,500	0	0	0	0	0
	0	0	0	0	0	375	0	0	0	0	0
Oocystis	0	0	0	0	0	70,688	0	0	0	0	0
submarina	0	0	0	0	0	250	0	0	0	0	0
Oocystis sp.	0	0	59,250	7,750	75,400	0	0	0	0	0	0
	0	0	5	125	500	0	0	0	0	0	0
Pediastrum	0	0	50	0	0	0	0	0	0	0	0
duplex	0	0	2	0	0	0	0	0	0	0	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	1-30-89	5-8-89	6-21-89	8-15-89	10-25-89	2-6-90	5-8-90	8-7-90	9-11-90	10-24-90
	Site 3, Devils Lake, Creel Bay--Continued										
Chlorophyta--Continued											
Scenedesmus	0	0	0	0	0	4,729	0	0	0	0	0
granulatus	0	0	0	0	0	563	0	0	0	0	0
Schroederia	102,376	0	0	0	0	31,659	0	0	0	0	0
setigera	63	0	0	0	0	188	0	0	0	0	0
Total	866,470	7,444	381,261	627,196	75,400	568,438	1,041,492	2,768,304	62,735	62,108	239,625
	612	53	9,691	305,314	500	119,439	318,625	569,063	501	813	36,375
Cryptophyta											
Chroomonas sp.	96,808	0	0	17,575	8,757	42,048	6,048	504,000	6,048	0	0
	720	0	0	125	63	438	63	5,250	63	0	0
Cryptomonas	147,886	0	0	0	0	0	0	0	0	0	0
marsonii	31	0	0	0	0	0	0	0	0	0	0
Total	244,694	0	0	17,575	8,757	42,048	6,048	504,000	6,048	0	0
	751	0	0	125	63	438	63	5,250	63	0	0
Cyanophyta											
Anabaena	0	0	0	1,712	2,527	0	0	0	0	0	0
flos aquae	0	0	0	21	31	0	0	0	0	0	0
Anacystis	0	0	0	0	0	1,750	0	0	0	0	0
nidulans	0	0	0	0	0	1,750	0	0	0	0	0
Anacystis sp.	0	890	0	2,800	0	4,712	0	5,850	62,600	10,000	8,000
	0	556	0	1,750	0	4,000	0	3,250	39,125	6,250	5,000

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	1-30-89	5-8-89	6-21-89	8-15-89	10-25-89	2-6-90	5-8-90	8-7-90	9-11-90	10-24-90
					Site 3, Devils Lake, Creel Bay--Continued						
Cyanophyta--Continued											
Aphanizomenon	187,312	0	0	1,784,366	713,175	127,655	0	0	19,945,947	4,206,563	603,556
flos aquae	1,600	0	0	17,058	6,425	1,210	0	0	277,875	60,375	6,938
Aphanocapsa	0	0	2,110	0	0	11,700	2,588	3,000	7,750	9,000	7,600
delicatissima	0	0	1,172	0	0	6,500	1,438	3,000	7,750	5,000	4,750
Aphanocapsa	0	240	0	0	0	7,350	0	0	0	0	1,800
elachista	0	17	0	0	0	1,750	0	0	0	0	1,000
Aphanocapsa	23,663	0	0	2,316	27,313	0	0	0	0	0	0
elachista var. conferta	13,146	0	0	2,316	27,313	0	0	0	0	0	0
Chroococcus	0	124	0	0	0	0	0	0	0	0	0
dispersus	0	12	0	0	0	0	0	0	0	0	0
Chroococcus sp.	0	0	176,666	0	20,600	0	0	0	0	0	0
	0	0	2,144	0	1,000	0	0	0	0	0	0
Coelosphaerium	0	0	0	21,462	0	0	0	0	0	0	0
naegelianum	0	0	0	438	0	0	0	0	0	0	0
Coelosphaerium	0	0	0	0	0	0	0	121,025	0	0	0
kuetzingianum	0	0	0	0	0	0	0	5,875	0	0	0
Dactylococcopsis	0	0	19	0	0	0	964	0	0	0	0
fascicularis	0	0	3	0	0	0	63	0	0	0	0
Dactylococcopsis	0	0	0	0	0	0	0	0	0	0	1,145
raphidioides	0	0	0	0	0	0	0	0	0	0	125
Dactylococcopsis	0	0	0	0	0	17,759	0	0	0	0	0
sp.	0	0	0	0	0	2,250	0	0	0	0	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	1-30-89	5-8-89	6-21-89	8-15-89	10-25-89	2-6-90	5-8-90	8-7-90	9-11-90	10-24-90
					Site 3, Devils Lake, Creel Bay--Continued						
Cyanophyta--Continued											
Gomphosphaeria	15,155	0	0	0	0	0	0	0	0	0	0
aponina	313	0	0	0	0	0	0	0	0	0	0
Lyngbya birgei	0	0	0	1,435,350	332,962	0	0	0	68,883	0	0
	0	0	0	1,750	406	0	0	0	188	0	0
Marsoniella	0	0	0	0	0	0	0	0	0	0	3,150
elegans	0	0	0	0	0	0	0	0	0	0	1,750
Mersomopedia	0	0	0	0	0	12,000	0	0	0	0	0
tenuissima	0	0	0	0	0	15,000	0	0	0	0	0
Microcystis	674,528	695,839	6,592	1,199,991	5,637,231	31,329	0	3,461	1,455,000	13,361,750	72,750
aeruginosa	5,964	1,823	80	14,563	68,413	277	0	42	15,000	137,750	750
Nodularia	0	0	0	0	1,335,183	0	0	0	288,525	0	0
spumigena	0	0	0	0	4,626	0	0	0	750	0	0
Oscillatoria	0	0	0	0	0	124	0	0	0	0	0
limnetica	0	0	0	0	0	31	0	0	0	0	0
Oscillatoria	2,153	0	0	0	0	0	0	0	0	0	0
tenuis var. tergestina	94	0	0	0	0	0	0	0	0	0	0
Oscillatoria sp.	0	527	0	0	0	0	0	0	0	0	0
	0	23	0	0	0	0	0	0	0	0	0
Phormidium	0	0	0	19,063	10,205	0	0	0	2,000	6,000	0
mucicola	0	0	0	3,125	1,063	0	0	0	500	1,500	0
Pseudabaena sp.	4,511	0	0	0	0	0	0	0	0	0	0
	125	0	0	0	0	0	0	0	0	0	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	1-30-89	5-8-89	6-21-89	8-15-89	10-25-89	2-6-90	5-8-90	8-7-90	9-11-90	10-24-90
					Site 3, Devils Lake, Creel Bay--Continued						
Cyanophyta--Continued											
Rhabdoderma	0	0	0	0	1,575	0	0	0	0	0	0
irregulare	0	0	0	0	250	0	0	0	0	0	0
Synechococcus sp.	95	0	0	0	0	0	0	0	0	0	0
	63	0	0	0	0	0	0	0	0	0	0
Total	907,417	697,620	185,387	4,467,060	8,080,771	214,379	3,552	133,336	21,830,705	17,593,313	698,001
	21,305	2,431	3,399	41,021	109,527	32,768	1,501	12,167	341,188	210,875	20,313

Organism scientific name Family Genus species	Date										
	9-20-88	1-30-89	5-8-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
					Site 4, Devils Lake, Main Bay						
Bacillariophyta											
Chaetoceros	0	0	0	0	0	1,263,621	0	0	0	0	0
elmorei	0	0	0	0	0	375	0	0	0	0	0
Chaetoceros sp.	79,763	0	0	0	31,277	0	0	0	0	0	0
	31	0	0	0	16	0	0	0	0	0	0
Cyclotella	0	0	276,181	0	0	0	0	34,502	0	0	0
meneghiniana	0	0	6	0	0	0	0	26	0	0	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-20-88	1-30-89	5-8-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
						Site 4, Devils Lake, Main Bay--Continued					
Bacillariophyta--Continued											
Cyclotella	0	0	28,862	0	3,186	607,881	62,250	172,515	0	0	10,843
stelligera	0	0	125	0	8	5,375	375	572	0	0	125
Entomoeneis	0	0	178,488	0	0	0	0	0	0	0	0
paludosa	0	0	6	0	0	0	0	0	0	0	0
Fragilaria sp.	0	0	612,360	0	0	0	0	0	0	0	0
	0	0	720	0	0	0	0	0	0	0	0
Navicula	0	0	5,683	0	0	0	0	0	0	0	0
accomoda	0	0	8	0	0	0	0	0	0	0	0
Navicula	0	8,141	0	0	0	0	0	0	0	0	0
capitata	0	15	0	0	0	0	0	0	0	0	0
Navicula	0	0	2,121	0	0	22,780	0	0	0	0	0
miniscula	0	0	6	0	0	250	0	0	0	0	0
Navicula	0	0	0	0	0	0	0	8,424	0	0	0
subminiscula	0	0	0	0	0	0	0	156	0	0	0
Navicula	0	0	4,320	8,335	0	0	0	0	0	0	0
vaucheriae	0	0	16	63	0	0	0	0	0	0	0
Navicula ventosa	0	0	0	0	0	0	0	0	0	0	4,688
	0	0	0	0	0	0	0	0	0	0	125
Nitzchia	0	0	0	0	0	0	0	12,085	0	0	0
acicularis	0	0	0	0	0	0	0	52	0	0	0
Nitzchia	0	0	2,640	0	0	0	0	0	0	0	0
dissipata	0	0	6	0	0	0	0	0	0	0	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-20-88	1-30-89	5-8-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
					Site 4, Devils Lake, Main Bay--Continued						
Bacillariophyta--Continued											
Nitzchia	0	0	3,643	0	0	0	0	4,027	0	0	0
frustulum	0	0	31	0	0	0	0	26	0	0	0
Nitzchia	0	0	900,591	0	0	0	0	0	0	0	0
gander-sheimiensis	0	0	63	0	0	0	0	0	0	0	0
Nitzchia	0	0	0	0	0	0	0	65,208	0	0	0
halophila	0	0	0	0	0	0	0	78	0	0	0
Nitzchia	22,775	0	0	0	0	0	0	0	0	0	0
hungarica	125	0	0	0	0	0	0	0	0	0	0
Nitzchia	0	0	0	13,507	10,209	0	0	0	0	0	0
kuetzingiana	0	0	0	63	83	0	0	0	0	0	0
Nitzchia	0	0	0	0	30,208	0	0	0	0	0	0
tryblionella	0	0	0	0	16	0	0	0	0	0	0
Stephanodiscus	0	0	0	0	456,538	0	0	0	0	0	0
alpinus	0	0	0	0	16	0	0	0	0	0	0
Stephanodiscus	0	0	1,305,269	0	6,665	22,125	0	52,471	0	0	0
dubius	0	0	15,055	0	31	375	0	546	0	0	0
Stephanodiscus	0	0	0	0	0	0	0	0	44,705,493	0	0
sp.	0	0	0	0	0	0	0	0	438	0	0
Surirella ovata	0	0	1,328,040	0	0	0	0	0	0	0	0
	0	0	31	0	0	0	0	0	0	0	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-20-88	1-30-89	5-8-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
	Site 4, Devils Lake, Main Bay--Continued										
Bacillariophyta--Continued											
Synedra acus	0 0	0 0	25,207 16	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Total	102,538 156	8,141 15	4,673,405 16,089	21,842 126	538,083 170	1,916,407 6,375	62,250 375	349,232 1,456	44,705,493 438	0 0	15,531 250
Chlorophyta											
Ankistrodesmus falcatus var. falcatus	0 0	0 0	0 0	0 0	0 0	0 0	0 0	13,913 375	0 0	0 0	0 0
Ankyra judayi	1,113 31	0 0	0 0	2,625 250	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Chlamydomonas sp.	1,443 63	0 0	0 0	617 63	4,259 42	0 0	0 0	0 0	61,256 188	0 0	0 0
Chlorella sp.	1,617 157	0 0	29,313 875	12,500 2,500	176 42	3,525 250	23,625 5,625	18,375 4,375	0 0	0 0	21,000 5,000
Chlorogonium sp.	3,481 31	1,408 7	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Closteriopsis longissima	148,515 16	0 0	0 0	1,188,117 63	178,027 42	0 0	0 0	0 0	0 0	0 0	0 0
Coccomyxa sp.	0 0	0 0	190,297 23,563	157,000 98,125	0 0	0 0	0 0	0 0	0 0	0 0	0 0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-20-88	1-30-89	5-8-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
						Site 4, Devils Lake, Main Bay--Continued					
Chlorophyta--Continued											
Crucigenia	0	0	0	0	0	7,069	0	0	0	0	0
apiculata	0	0	0	0	0	376	0	0	0	0	0
Crucigenia	20,454	0	0	0	0	0	0	0	0	0	0
tetrapedia	376	0	0	0	0	0	0	0	0	0	0
Dunaliella	0	0	0	0	0	37,117	7,141	617,229	0	0	0
viridis	0	0	0	0	0	94	42	1,563	0	0	0
Dunaliella sp.	0	0	0	0	0	0	18,850	0	0	102,257	61,256
	0	0	0	0	0	0	3,625	0	0	313	188
Kirchneriella	0	0	517	0	0	43,065	266,500	26,650	525	0	15,375
lunaris	0	0	63	0	0	4,375	32,500	3,250	125	0	5,125
Monoraphidium	0	0	0	0	0	0	0	887	0	0	0
contortum	0	0	0	0	0	0	0	63	0	0	0
Nannochloris sp.	0	0	0	0	0	454,262	1,218,000	3,583,975	0	69	23,238
	0	0	0	0	0	115,000	455,000	779,125	0	63	17,875
Oocystis pusilla	0	0	7,633	0	0	5,725	0	0	0	0	0
	0	0	188	0	0	250	0	0	0	0	0
Oocystis sp.	0	0	0	0	0	188,000	0	0	0	0	0
	0	0	0	0	0	1,000	0	0	0	0	0
Pediastrum	0	0	0	0	0	0	0	0	838	0	0
duplex	0	0	0	0	0	0	0	0	16	0	0
Scenedesmus	0	0	1,150	0	0	0	0	1,225	0	0	2,575
ecornus	0	0	125	0	0	0	0	125	0	0	125

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-20-88	1-30-89	5-8-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
	Site 4, Devils Lake, Main Bay--Continued										
Chlorophyta--Continued											
Scenedesmus	0	0	0	0	0	2,100	0	0	0	0	0
granulatus	0	0	0	0	0	250	0	0	0	0	0
Schroederia	0	0	0	0	0	16,650	0	6,426	0	0	0
setigera	0	0	0	0	0	250	0	63	0	0	0
Sphaerocystis	0	0	0	34,000	0	0	0	0	0	0	0
schroeteri	0	0	0	625	0	0	0	0	0	0	0
Total	176,623	1,408	228,910	1,394,859	182,462	757,513	1,534,116	4,268,680	62,619	102,326	123,444
	674	7	24,814	101,626	126	121,845	496,792	788,939	329	376	28,313
Chrysophyta											
Chromulina sp.	0	193	0	0	0	0	0	0	0	0	0
	0	18	0	0	0	0	0	0	0	0	0
Ochromonas sp.	0	0	0	0	0	0	3,865	0	0	0	0
	0	0	0	0	0	0	250	0	0	0	0
Total	0	193	0	0	0	0	3,865	0	0	0	0
	0	18	0	0	0	0	250	0	0	0	0
Cryptophyta											
Chroomonas sp.	0	0	0	26,132	11,537	36,000	12,000	540,000	6,048	0	0
	0	0	0	188	83	375	125	5,625	63	0	0
Cryptomonas	184,159	0	0	0	0	0	0	0	0	0	0
ovata	31	0	0	0	0	0	0	0	0	0	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-20-88	1-30-89	5-8-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
						Site 4, Devils Lake, Main Bay--Continued					
Cryptophyta--Continued											
Cryptomonas sp.	51,910	0	0	0	0	0	0	0	0	0	0
	344	0	0	0	0	0	0	0	0	0	0
Total	236,069	0	0	26,132	11,537	36,000	12,000	540,000	6,048	0	0
	375	0	0	188	83	375	125	5,625	63	0	0
Cyanophyta											
Anacystis sp.	6,461	91	0	6,676	0	19,144	0	1,625	63,400	0	16,500
	4,038	57	0	5,563	0	16,250	0	1,625	39,625	0	10,313
Aphanizomenon flos aquae	3,512,345	0	0	273,263	272,560	59,372	0	0	32,983,828	672,007	328,500
	16,316	0	0	2,625	2,456	563	0	0	236,025	9,563	4,563
Aphanocapsa delicatissima	2,198	0	27,338	9,000	0	11,700	1,800	5,250	0	1,600	17,200
	1,221	0	15,188	5,000	0	6,500	1,000	5,250	0	1,000	10,750
Aphanocapsa elachista	0	0	0	0	0	14,700	0	0	0	0	0
	0	0	0	0	0	3,500	0	0	0	0	0
Aphanocapsa elachista var. conferta	36,394	0	0	3,125	32,500	103,625	0	0	0	0	0
	20,219	0	0	3,125	32,500	103,625	0	0	0	0	0
Chroococcus dispersus	639	113	265	0	0	0	0	0	0	0	0
	31	11	63	0	0	0	0	0	0	0	0
Chroococcus sp.	0	22	0	0	10,300	1,288	0	0	0	0	0
	0	1	0	0	500	125	0	0	0	0	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-20-88	1-30-89	5-8-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
					Site 4, Devils Lake, Main Bay--Continued						
Cyanophyta--Continued											
Coelosphaerium	0	0	0	0	0	0	0	0	46,350	0	0
kuetzingianum	0	0	0	0	0	0	0	0	4,500	0	0
Dactylococcopsis	353	0	0	0	0	0	0	0	0	0	0
acicularis	31	0	0	0	0	0	0	0	0	0	0
Dactylococcopsis	0	0	769	888	0	0	2,209	0	0	0	0
fascicularis	0	0	63	125	0	0	125	0	0	0	0
Dactylococcopsis	0	0	0	0	0	0	0	0	0	0	693
raphidioides	0	0	0	0	0	0	0	0	0	0	63
Dactylococcopsis	0	0	0	0	0	1,975	0	2,303	0	0	0
sp.	0	0	0	0	0	125	0	188	0	0	0
Lyngbya birgei	0	0	0	1,025,250	1,859,123	0	0	0	0	0	0
	0	0	0	1,250	2,267	0	0	0	0	0	0
Marssoniella sp.	0	0	2,025	0	0	0	0	0	0	0	0
	0	0	750	0	0	0	0	0	0	0	0
Mersomopedia	0	630	1,817	0	0	0	0	0	0	0	0
tenuissima	0	630	2,313	0	0	0	0	0	0	0	0
Microcystis	2,218,860	148,863	29,205	226,600	3,775,568	191,139	0	1,030,000	1,104,286	1,588,375	6,111
aeruginosa	14,088	390	355	2,750	45,820	1,690	0	12,500	20,113	16,375	63
Oscillatoria	0	3,120	0	0	0	124	0	0	0	0	0
limnetica	0	780	0	0	0	31	0	0	0	0	0
Oscillatoria sp.	7,717	7,050	0	0	0	1,558	0	0	0	0	0
	689	660	0	0	0	125	0	0	0	0	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-20-88	1-30-89	5-8-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
					Site 4, Devils Lake, Main Bay--Continued						
Cyanophyta--Continued											
Phormidium	0	0	0	0	10,013	0	0	0	0	0	0
mucicola	0	0	0	0	1,043	0	0	0	0	0	0
Pseudabaena sp.	1,575	0	0	0	0	0	0	0	0	0	0
	250	0	0	0	0	0	0	0	0	0	0
Rhabdoderma	288	0	0	0	0	0	0	0	0	0	0
irregulare	31	0	0	0	0	0	0	0	0	0	0
Rhabdoderma	0	2	0	0	0	0	0	0	0	0	0
sigmoidea f. minor	0	1	0	0	0	0	0	0	0	0	0
Synechococcus	485	0	0	0	0	0	0	0	0	0	0
sp.	63	0	0	0	0	0	0	0	0	0	0
Total	5,787,315	159,891	61,419	1,544,802	5,960,064	404,625	4,009	1,039,178	34,197,864	2,261,982	369,004
	56,977	2,530	18,732	20,438	84,586	132,534	1,125	19,563	300,263	26,938	25,752

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-22-89	5-8-89	6-21-89	8-15-89	10-26-89	2-6-90	5-8-90	8-7-90	9-11-90	10-24-90
Site 5, Devils Lake, Mission Bay											
Bacillariophyta											
Caloneis	0	0	0	488,632	0	0	0	0	0	0	0
amphisbaena	0	0	0	16	0	0	0	0	0	0	0
Chaetoceros sp.	0	0	0	0	910,820	0	0	0	0	0	0
	0	0	0	0	125	0	0	0	0	0	0
Cyclotella	832,749	0	0	0	544,000	349,250	94,258	0	169,650	0	0
meneghiniana	16	0	0	0	125	125	438	0	250	0	0
Cyclotella	0	0	89,754	0	0	2,796,188	0	0	0	0	28,863
stelligera	0	0	313	0	0	16,875	0	0	0	0	125
Diatoma tenue	0	0	57,772	0	0	0	0	0	0	0	0
	0	0	219	0	0	0	0	0	0	0	0
Diatoma tenue	0	0	0	0	0	0	0	663,525	0	0	0
var. tenue	0	0	0	0	0	0	0	1,063	0	0	0
Entomoeneis	0	0	475,968	0	0	0	0	0	0	0	0
paludosa	0	0	16	0	0	0	0	0	0	0	0
Navicula	0	0	0	0	0	20,000	0	0	0	0	0
miniscula	0	0	0	0	0	125	0	0	0	0	0
Navicula	0	0	0	0	0	0	0	0	2,816	0	0
minnewauko- nensis	0	0	0	0	0	0	0	0	16	0	0
Navicula	0	0	0	0	0	0	0	7,285	0	0	0
subminiscula	0	0	0	0	0	0	0	125	0	0	0
Navicula	0	0	0	49,455	0	0	0	0	0	0	0
vaucheriae	0	0	0	157	0	0	0	0	0	0	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-22-89	5-8-89	6-21-89	8-15-89	10-26-89	2-6-90	5-8-90	8-7-90	9-11-90	10-24-90
					Site 5, Devils Lake, Mission Bay--Continued						
Bacillariophyta--Continued											
Nitzchia	0	0	0	0	0	0	0	368,000	0	0	0
acicularis	0	0	0	0	0	0	0	250	0	0	0
Nitzchia	0	0	0	0	0	19,575	0	21,375	0	0	0
frustulum	0	0	0	0	0	125	0	125	0	0	0
Nitzchia	5,648	0	2,914	0	0	0	0	0	0	0	0
kuetzingiana	31	0	31	0	0	0	0	0	0	0	0
Stephanodiscus	0	0	0	48,493	0	0	0	53,469	0	0	0
dubius	0	0	0	595	0	0	0	1,063	0	0	0
Stephanodiscus	0	0	0	0	0	0	0	874,918	0	0	0
tenuis	0	0	0	0	0	0	0	2,063	0	0	0
Stephanodiscus	0	0	0	0	0	0	0	0	12,758,417	0	0
sp.	0	0	0	0	0	0	0	0	125	0	0
Surirella ovalis	0	0	267,786	0	0	0	0	0	0	0	0
	0	0	31	0	0	0	0	0	0	0	0
Surirella ovata	0	0	685,440	0	0	0	0	0	0	0	0
	0	0	16	0	0	0	0	0	0	0	0
Synedra acus	0	0	0	0	0	0	0	109,113	0	0	0
	0	0	0	0	0	0	0	63	0		
Synedra rumpens	0	0	0	47,266	0	0	0	0	0	0	0
	0	0	0	31	0	0	0	0	0	0	0
Total	838,397	0	1,579,634	633,846	1,454,820	3,185,013	94,258	2,097,685	12,930,883	0	28,863
	47	0	626	799	250	17,250	438	4,752	391	0	125

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-22-89	5-8-89	6-21-89	8-15-89	10-26-89	2-6-90	5-8-90	8-7-90	9-11-90	10-24-90
					Site 5, Devils Lake, Mission Bay--Continued						
Chlorophyta											
Ankistrodesmus	0	0	0	0	0	0	0	1,786	0	0	0
falcatus var. falcatus	0	0	0	0	0	0	0	188	0	0	0
Ankyra judayi	0	0	0	662	0	0	0	0	0	0	0
	0	0	0	63	0	0	0	0	0	0	0
Chlamydomonas	0	134	0	0	0	0	0	0	41,455	0	0
sp.	0	3	0	0	0	0	0	0	188	0	0
Chlorella sp.	0	0	10,751	7,875	0	571,650	25,200	38,325	0	0	8,925
	0	0	376	1,875	0	55,500	6,000	9,125	0	0	2,125
Chlorococcum sp.	0	0	3,506	0	0	8,175	0	0	0	0	0
	0	0	31	0	0	125	0	0	0	0	0
Chlorogonium sp.	5,270	0	0	0	0	0	0	0	0	0	0
	31	0	0	0	0	0	0	0	0	0	0
Coccomonas sp.	0	0	9,923	0	0	0	0	0	0	0	0
	0	0	63	0	0	0	0	0	0	0	0
Coccomyxa sp.	0	0	0	37,701	0	0	0	0	0	0	0
	0	0	0	23,563	0	0	0	0	0	0	0
Green coccoid	0	0	10,078	0	0	0	0	0	0	0	0
	0	0	282	0	0	0	0	0	0	0	0
Coenochloris	0	0	0	0	0	154,500	0	0	0	0	0
pyrenoidosa	0	0	0	0	0	1,875	0	0	0	0	0
Dictyosphaerium	0	0	0	0	0	1,048	0	0	0	0	0
pulchellum	0	0	0	0	0	16	0	0	0	0	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-22-89	5-8-89	6-21-89	8-15-89	10-26-89	2-6-90	5-8-90	8-7-90	9-11-90	10-24-90
						Site 5, Devils Lake, Mission Bay--Continued					
Chlorophyta--Continued											
Dunaliella	0	0	0	0	0	0	0	518,453	0	0	0
viridis	0	0	0	0	0	0	0	1,313	0	0	0
Dunaliella sp.	0	0	0	0	0	0	1,300	3,588	0	122,513	20,419
	0	0	0	0	0	0	250	125	0	375	63
Elakatothrix	0	0	0	0	0	5,727	0	0	0	0	0
gelatinosa	0	0	0	0	0	83	0	0	0	0	0
Gloecoccus sp.	0	0	0	0	0	0	0	5,194	0	0	0
	0	0	0	0	0	0	0	63	0	0	0
Keratococcus sp.	0	0	0	0	0	1,336	0	0	0	0	0
	0	0	0	0	0	21	0	0	0	0	0
Kirchneriella	0	0	0	0	0	1,175	4,200	0	0	2,100	0
contorta	0	0	0	0	0	125	500	0	0	250	0
Kirchneriella	0	0	0	0	0	8,200	80,500	2,567	0	1,050	12,750
lunaris	0	0	0	0	0	1,000	5,750	313	0	125	4,250
Monoraphidium	0	0	0	0	0	43,988	0	0	0	0	0
minutum	0	0	0	0	0	375	0	0	0	0	0
Nannochloris sp.	0	0	0	0	0	23,400	385,700	1,218,000	0	138	70,525
	0	0	0	0	0	13,000	137,750	380,625	0	125	54,250
Nephrocytium	0	0	0	0	0	14,138	0	0	0	0	0
limnetica	0	0	0	0	0	375	0	0	0	0	0
Oocystis sp.	0	0	0	51,002	0	36,300	0	4,883	0	0	0
	0	0	0	501	0	1,000	0	63	0	0	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-22-89	5-8-89	6-21-89	8-15-89	10-26-89	2-6-90	5-8-90	8-7-90	9-11-90	10-24-90
	Site 5, Devils Lake, Mission Bay--Continued										
Chlorophyta--Continued											
Pediastrum	5,273	0	0	0	0	0	0	0	0	0	0
duplex	94	0	0	0	0	0	0	0	0	0	0
Schroederia	2,592	0	0	0	0	3,536	0	0	0	0	0
setigera	16	0	0	0	0	21	0	0	0	0	0
Sphaerocystis	0	0	0	0	84,825	0	0	0	0	0	0
schroeteri	0	0	0	0	750	0	0	0	0	0	0
Total	13,135	134	34,258	97,240	84,825	829,185	496,900	1,792,796	41,455	125,801	112,619
	141	3	752	26,002	750	73,141	150,250	391,815	188	875	60,688
Chrysophyta											
Ochromonas sp	0	0	0	0	0	27,000	0	0	0	0	0
	0	0	0	0	0	875	0	0	0	0	0
Total	0	0	0	0	0	27,000	0	0	0	0	0
	0	0	0	0	0	875	0	0	0	0	0
Cryptophyta											
Chroomonas sp.	0	0	0	1,815,757	34,750	432,000	18,048	162,048	0	0	0
	0	0	0	13,063	250	4,500	188	1,688	0	0	0
Cryptomonas	0	0	0	0	0	107,631	0	0	0	0	0
ovata	0	0	0	0	0	21	0	0	0	0	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-22-89	5-8-89	6-21-89	8-15-89	10-26-89	2-6-90	5-8-90	8-7-90	9-11-90	10-24-90
	Site 5, Devils Lake, Mission Bay--Continued										
Cryptophyta--Continued											
Cryptomonas sp.	0 0	0 0	0 0	0 0	0 0	0 0	0 0	245,979 125	0 0	0 0	0 0
Total	0 0	0 0	0 0	1,815,757 13,063	34,750 250	539,631 4,521	18,048 188	408,027 1,813	0 0	0 0	0 0
Cyanophyta											
Anabaena flos aquae	0 0	0 0	0 0	95,485 563	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Anacystis sp.	0 0	181 113	0 0	0 0	0 0	0 0	0 0	1,375 1,375	339,800 212,375	10,600 6,625	0 0
Aphanizomenon flos aquae	11,192,167 58,123	0 0	247 3	1,403,623 13,490	19,332,000 174,000	2,733,525 29,375	0 0	0 0	9,247,838 128,250	36,990,225 525,375	2,928,407 36,188
Aphanocapsa delicatissima	0 0	0 0	2,648 1,471	4,275 2,375	11,250 6,250	10,350 5,750	11,025 6,125	0 0	0 0	0 0	8,613 6,625
Aphanocapsa elachista var. conferta	0 0	0 0	0 0	2,379 2,379	50,500 50,500	50,000 50,000	0 0	20,150 7,750	0 0	0 0	0 0
Chroococcus dispersus	0 0	101 3	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Chroococcus sp.	0 0	0 0	0 0	0 0	4,310,100 3,000	0 0	0 0	0 0	0 0	0 0	0 0
Coelosphaerium kuetzingianum	0 0	0 0	0 0	0 0	0 0	3,852 374	0 0	0 0	0 0	0 0	0 0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-22-89	5-8-89	6-21-89	8-15-89	10-26-89	2-6-90	5-8-90	8-7-90	9-11-90	10-24-90
					Site 5, Devils Lake, Mission Bay--Continued						
Cyanophyta--Continued											
Dactylococcopsis	0	0	0	0	0	3,825	0	0	0	0	0
fascicularis	0	0	0	0	0	250	0	0	0	0	0
Dactylococcopsis	0	0	0	0	0	0	0	0	0	500	0
raphidioides	0	0	0	0	0	0	0	0	0	125	0
Dactylococcopsis sp.	0	0	0	0	0	26,163	0	0	1,238	0	0
	0	0	0	0	0	2,875	0	0	125	0	0
Lyngbya birgei	0	0	0	0	5,228,775	0	0	0	0	0	0
	0	0	0	0	6,375	0	0	0	0	0	0
Mersomopedia	0	0	0	0	0	4,200	0	3,450	0	0	0
tenuissima	0	0	0	0	0	5,250	0	4,313	0	0	0
Microcystis	431,550	570,260	3,576	77,291	1,236,000	1,318	0	185,502	2,910,000	6,921,726	0
aeruginosa	2,740	1,494	43	938	15,000	16	0	2,250	30,000	71,358	0
Microcystis sp.	0	0	0	0	0	166,050	0	0	0	0	0
	0	0	0	0	0	92,250	0	0	0	0	0
Oscillatoria	0	0	0	0	0	52,200	0	0	0	0	0
tenuis	0	0	0	0	0	7,250	0	0	0	0	0
Oscillatoria	98,905	0	0	0	0	0	0	0	0	0	0
tenuis var. tergestina	4,319	0	0	0	0	0	0	0	0	0	0
Oscillatoria sp.	0	0	0	0	258,238	0	0	0	0	0	0
	0	0	0	0	9,125	0	0	0	0	0	0
Phormidium	0	0	0	8,022	33,600	0	0	0	1,252	1,500	0
mucicola	0	0	0	1,315	3,500	0	0	0	313	375	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-22-89	5-8-89	6-21-89	8-15-89	10-26-89	2-6-90	5-8-90	8-7-90	9-11-90	10-24-90
	Site 5, Devils Lake, Mission Bay--Continued										
Cyanophyta--Continued											
Rhabdoderma	0	714	0	0	5,850	0	0	0	0	0	0
sigmoidea f. minor	0	446	0	0	1,500	0	0	0	0	0	0
Total	11,722,622	571,256	6,471	1,591,075	30,466,313	3,051,483	11,025	210,477	12,500,128	43,924,551	2,937,020
	65,182	2,056	1,517	21,060	269,250	193,390	6,125	15,688	371,063	603,858	42,813
Euglenophyta											
Euglena sp.	0	0	23,019	0	0	0	0	0	0	0	0
	0	0	31	0	0	0	0	0	0	0	0
Total	0	0	23,019	0	0	0	0	0	0	0	0
	0	0	31	0	0	0	0	0	0	0	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-20-89	8-15-89	10-26-89	2-7-90	5-8-90	8-8-90	9-12-90	10-25-90
Site 6, Devils Lake, East Bay west											
Bacillariophyta											
Chaetoceros sp.	0	0	0	0	459,056	0	0	0	0	0	0
	0	0	0	0	63	0	0	0	0	0	0
Cyclotella meneghiniana	0	0	0	0	0	0	26,612	753,803	0	0	0
	0	0	0	0	0	0	102	50	0	0	0
Cyclotella stelligera	0	0	85,084	0	0	51,864	0	0	0	0	0
	0	0	688	0	0	313	0	0	0	0	0
Diatoma tenue	0	0	73,480	0	0	0	0	0	0	0	0
	0	0	188	0	0	0	0	0	0	0	0
Diatoma tenue var. tenue	0	0	0	0	0	0	0	330,300	0	0	0
	0	0	0	0	0	0	0	1,500	0	0	0
Entomoneis paludosa	0	0	0	0	0	0	0	1,226,100	0	0	0
	0	0	0	0	0	0	0	50	0	0	0
Navicula agnewii	0	0	0	0	0	0	0	70,752	0	0	0
	0	0	0	0	0	0	0	660	0	0	0
Navicula pelliculosa	0	0	0	0	0	0	0	47,250	0	0	0
	0	0	0	0	0	0	0	875	0	0	0
Nitzchia acicularis	0	0	18,463	0	0	0	0	1,118,541	0	0	0
	0	0	125	0	0	0	0	4,813	0	0	0
Nitzchia hungarica	0	0	0	0	0	0	0	58,610	0	0	0
	0	0	0	0	0	0	0	50	0	0	0
Nitzchia palea	0	0	0	0	0	0	0	0	0	27,924	0
	0	0	0	0	0	0	0	0	0	63	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date 9-21-88	2-23-89	5-9-89	6-20-89	8-15-89	10-26-89	2-7-90	5-8-90	8-8-90	9-12-90	10-25-90
					Site 6, Devils Lake, East Bay west--Continued						
Bacillariophyta--Continued											
Stephanodiscus	0	0	580,841	183,375	0	0	0	120,125	0	0	0
dubius	0	0	1,688	2,250	0	0	0	1,250	0	0	0
Stephanodiscus	0	0	0	0	0	0	0	1,060,250	0	0	0
tenuis	0	0	0	0	0	0	0	2,500	0	0	0
Stephanodiscus	0	0	0	0	0	0	0	0	42,555,763	4,762,013	0
sp.	0	0	0	0	0	0	0	0	563	63	0
Surirella ovalis	0	0	0	0	0	0	0	225,575	0	0	0
	0	0	0	0	0	0	0	125	0	0	0
Total	0	0	757,868	183,375	459,056	51,864	26,612	5,011,306	42,555,763	4,789,937	0
	0	0	2,689	2,250	63	313	102	11,873	563	126	0
Chlorophyta											
Ankistrodesmus	0	0	0	0	0	0	0	800	0	0	0
falcatus var. falcatus	0	0	0	0	0	0	0	63	0	0	0
Ankyra judayi	0	0	0	15,350	0	0	0	0	0	0	0
	0	0	0	500	0	0	0	0	0	0	0
Chlamydomonas	0	373	0	4,900	6,388	0	0	0	126,702	0	0
sp.	0	3	0	500	63	0	0	0	500	0	0
Chlorella sp.	0	0	8,925	64,375	0	69,525	25	12,600	0	0	2,100
	0	0	2,125	6,250	0	6,750	6	3,000	0	0	500

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-20-89	8-15-89	10-26-89	2-7-90	5-8-90	8-8-90	9-12-90	10-25-90
	Site 6, Devils Lake, East Bay west--Continued										
Chlorophyta--Continued											
Chlorococcum sp.	0 0	0 0	0 0	10,300 125	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Coccomyxa sp.	0 0	0 0	5,250 1,250	200,400 125,250	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Green coccoid	0 0	0 0	2,126,835 313	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Gloeococcus sp.	0 0	0 0	0 0	0 0	0 0	0 0	0 0	32,987 63	0 0	0 0	0 0
Gloeocystis gigas	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	561,864 438	0 0
Kentrosphaera sp.	0 0	0 0	0 0	0 0	0 0	0 0	18,193 6	0 0	0 0	0 0	0 0
Keratococcus sp.	0 0	0 0	0 0	0 0	0 0	4,007 63	0 0	0 0	0 0	0 0	0 0
Kirchneriella contorta	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	1,050 125	0 0
Kirchneriella lunaris	0 0	14 1	1,542 188	1,750 250	0 0	0 0	434 31	1,025 125	397 63	1,050 125	6,000 2,000
Nannochloris sp.	0 0	0 0	0 0	0 0	0 0	1,350 750	487 174	208,000 65,000	2,957 2,688	3,163 2,875	48,100 37,000
Oocystis parva	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	188,012 1,625	0 0	0 0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date 9-21-88	2-23-89	5-9-89	6-20-89	8-15-89	10-26-89	2-7-90	5-8-90	8-8-90	9-12-90	10-25-90
					Site 6, Devils Lake, East Bay west--Continued						
Chlorophyta--Continued											
Oocystis	0	0	227,750	0	0	0	0	0	0	0	0
pyriformis	0	0	250	0	0	0	0	0	0	0	0
Pyramimonas sp.	0	9,472	0	0	0	0	0	0	0	0	0
	0	9	0	0	0	0	0	0	0	0	0
Schroederia	0	0	0	0	0	0	0	0	7,600	0	0
setigera	0	0	0	0	0	0	0	0	125	0	0
Total	0	9,859	2,370,302	297,075	6,388	74,882	19,139	255,412	325,668	567,127	56,200
	0	13	4,126	132,875	63	7,563	217	68,251	5,001	3,563	39,500
Cryptophyta											
Chroomonas sp.	0	0	0	1,355,250	0	84,000	3,840	801,792	6,048	0	0
	0	0	0	9,750	0	875	40	8,352	63	0	0
Total	0	0	0	1,355,250	0	84,000	3,840	801,792	6,048	0	0
	0	0	0	9,750	0	875	40	8,352	63	0	0
Cyanophyta											
Anacystis sp.	273,011	43	10,875	0	813	0	0	0	48,800	0	0
	3,813	5	10,875	0	625	0	0	0	30,500	0	0
Aphanizomenon	16,917,933	0	222	819,788	94,680,225	3,868,152	0	0	6,837,669	7,024,820	7,455,575
flos aquae	76,313	0	2	7,875	852,975	41,688	0	0	96,501	100,626	98,000
Aphanocapsa	0	0	5,625	9,000	0	450	0	0	0	0	4,000
delicatissima	0	0	3,125	5,000	0	250	0	0	0	0	2,500

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-20-89	8-15-89	10-26-89	2-7-90	5-8-90	8-8-90	9-12-90	10-25-90
	Site 6, Devils Lake, East Bay west--Continued										
Cyanophyta--Continued											
Aphanocapsa	0	0	0	0	6,250	0	0	0	0	0	0
elachista var. conferta	0	0	0	0	6,250	0	0	0	0	0	0
Chroococcus	0	206	9,975	0	0	0	0	0	0	0	0
dispersus	0	49	2,375	0	0	0	0	0	0	0	0
Dactylococcopsis	0	0	0	878	0	0	0	0	0	0	0
fascicularis	0	0	0	42	0	0	0	0	0	0	0
Lyngbya birgei	0	0	0	0	11,726,000	0	0	0	0	0	0
	0	0	0	0	14,300	0	0	0	0	0	0
Lyngbya	0	0	0	0	0	0	0	5,500	0	0	3,500
limnetica	0	0	0	0	0	0	0	1,375	0	0	875
Marsoniella	0	0	22,613	0	0	0	0	0	0	0	0
elegans	0	0	8,375	0	0	0	0	0	0	0	0
Microcystis	0	93,898	5,150	669,500	3,296,000	8,175	0	0	939,688	200,111	72,750
aeruginosa	0	246	250	8,125	40,000	125	0	0	9,688	2,063	750
Microcystis sp.	0	0	0	0	0	4,388	0	0	0	0	0
	0	0	0	0	0	2,438	0	0	0	0	0
Oscillatoria	0	0	0	0	0	9,900	0	0	0	0	0
tenuis	0	0	0	0	0	1,375	0	0	0	0	0
Oscillatoria	6,375	0	0	0	115,875	0	0	0	0	0	0
tenuis var. tergestina	750	0	0	0	3,750	0	0	0	0	0	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-20-89	8-15-89	10-26-89	2-7-90	5-8-90	8-8-90	9-12-90	10-25-90
	Site 6, Devils Lake, East Bay west--Continued										
Cyanophyta--Continued											
Phormidium	0	0	0	24,400	76,800	0	0	0	61,155	1,500	2,500
mucicola	0	0	0	4,000	8,000	0	0	0	1,125	375	625
Rhabdoderma	0	149	0	0	0	0	0	0	0	0	0
irregulare	0	12	0	0	0	0	0	0	0	0	0
Rhabdoderma	0	26	0	0	0	0	0	0	0	0	0
sigmoidea f. minor	0	16	0	0	0	0	0	0	0	0	0
Spirulina sp.	0	0	0	0	10,514	0	0	0	0	0	0
	0	0	0	0	125	0	0	0	0	0	0
Synechococcus	196	0	0	0	0	0	0	0	0	0	0
sp.	125	0	0	0	0	0	0	0	0	0	0
Total	17,197,515	94,322	54,460	1,523,566	109,912,477	3,891,065	0	5,500	7,887,312	7,226,431	7,538,325
	81,001	328	25,002	25,042	926,025	45,876	0	1,375	137,814	103,064	102,750

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-20-89	8-15-89	10-26-89	2-7-90	5-8-90	8-8-90	9-12-90	10-25-90
						Site 7, Devils Lake, East Bay east					
Bacillariophyta											
Cyclotella	0	0	0	0	0	381,675	873	1,789,568	0	0	475,024
meneghiniana	0	0	0	0	0	375	3	47	0	0	375
Cyclotella	0	0	307,899	0	0	0	0	0	0	0	14,547
stelligera	0	0	1,102	0	0	0	0	0	0	0	63
Diatoma tenue	0	0	8,132	0	0	0	0	0	0	0	0
	0	0	21	0	0	0	0	0	0	0	0
Diatoma tenue	0	0	0	0	0	0	0	390,699	0	0	0
var. tenue	0	0	0	0	0	0	0	945	0	0	0
Entomoeneis	0	0	4,712,032	0	0	0	0	4,634,658	0	0	0
paludosa	0	0	208	0	0	0	0	189	0	0	0
Navicula agnewii	0	0	0	0	0	0	0	123,084	0	0	0
	0	0	0	0	0	0	0	756	0	0	0
Navicula	0	0	0	0	0	0	0	187,431	0	0	0
capitata	0	0	0	0	0	0	0	378	0	0	0
Navicula	0	0	0	0	0	0	0	0	29,716	0	0
cryptocephala	0	0	0	0	0	0	0	0	125	0	0
Navicula	0	0	0	0	0	0	0	55,566	0	0	0
pelliculosa	0	0	0	0	0	0	0	1,323	0	0	0
Nitzchia	0	0	15,336	0	0	0	0	527,083	0	0	0
acicularis	0	0	104	0	0	0	0	2,268	0	0	0
Nitzchia	0	0	0	0	0	0	0	32,319	0	0	0
frustulum	0	0	0	0	0	0	0	189	0	0	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date 9-21-88	2-23-89	5-9-89	6-20-89	8-15-89	10-26-89	2-7-90	5-8-90	8-8-90	9-12-90	10-25-90
					Site 7, Devils Lake, East Bay east--Continued						
Bacillariophyta--Continued											
Nitzchia	0	0	0	0	0	0	0	416,613	0	0	0
halophila	0	0	0	0	0	0	0	378	0	0	0
Nitzchia	0	0	15,792	0	0	0	0	0	0	0	0
hantzschiana	0	0	42	0	0	0	0	0	0	0	0
Nitzchia	0	0	4,397	0	0	0	0	0	0	0	0
kuetzingiana	0	0	21	0	0	0	0	0	0	0	0
Stephanodiscus	0	0	0	763,392	0	0	0	0	0	0	0
alpinus	0	0	0	16	0	0	0	0	0	0	0
Stephanodiscus	0	0	866,100	29,550	0	443,250	0	1,404,346	0	0	0
dubius	0	0	2,517	500	0	7,500	0	12,096	0	0	0
Surirella	0	0	744,986	0	0	0	0	4,397,085	0	0	0
ovalis	0	0	270	0	0	0	0	945	0	0	0
Surirella ovata	0	0	1,988,406	0	0	0	0	0	0	0	0
	0	0	42	0	0	0	0	0	0	0	0
Synedra	0	0	151,234	0	0	0	0	0	0	0	0
pulchella	0	0	42	0	0	0	0	0	0	0	0
Synedra rumpens	0	0	4,378	0	0	0	0	0	0	0	0
	0	0	6	0	0	0	0	0	0	0	0
Synedra	0	0	58,630	0	0	0	0	0	0	0	0
tabulata	0	0	62	0	0	0	0	0	0	0	0
Total	0	0	8,877,322	792,942	0	824,925	873	13,958,452	29,716	0	489,571
	0	0	4,437	516	0	7,875	3	19,514	125	0	438

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-20-89	8-15-89	10-26-89	2-7-90	5-8-90	8-8-90	9-12-90	10-25-90
					Site 7, Devils Lake, East Bay east--Continued						
Chlorophyta											
Ankyra judayi	0	0	0	15,350	0	0	0	0	0	0	0
	0	0	0	500	0	0	0	0	0	0	0
Chlamydomonas sp.	0	134	0	0	6,388	0	0	525	81,675	0	0
	0	3	0	0	63	0	0	125	250	0	0
Chlorella sp.	0	0	0	6,150	0	6,300	0	9,450	525	0	525
	0	0	0	1,250	0	1,500	0	2,250	125	0	125
Chlorogonium sp.	0	0	0	12,675	0	0	0	0	0	0	0
	0	0	0	125	0	0	0	0	0	0	0
Coccomyxa sp.	0	0	9,425	100,000	0	0	0	0	0	0	0
	0	0	1,500	62,500	0	0	0	0	0	0	0
Green coccoid	0	0	19,568,952	0	0	0	0	0	0	0	0
	0	0	2,392	0	0	0	0	0	0	0	0
Dunaliella viridis	0	0	0	0	0	0	47	691,075	0	0	0
	0	0	0	0	0	0	9	1,750	0	0	0
Dunaliella sp.	0	0	0	0	0	0	0	3,556	0	0	0
	0	0	0	0	0	0	0	125	0	0	0
Kentrosphaera sp.	0	0	0	0	0	0	9,097	0	0	0	0
	0	0	0	0	0	0	3	0	0	0	0
Kirchneriella lunaris	0	0	1,197	0	0	0	1,302	21,525	0	0	1,463
	0	0	146	0	0	0	93	2,625	0	0	1,125
Monoraphidium contortum	0	0	0	0	0	0	0	15,943	0	0	0
	0	0	0	0	0	0	0	875	0	0	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-20-89	8-15-89	10-26-89	2-7-90	5-8-90	8-8-90	9-12-90	10-25-90
					Site 7, Devils Lake, East Bay east--Continued						
Chlorophyta--Continued											
Nannochloris sp.	0	0	0	0	0	4,713	1,336	228,850	9,075	0	41,763
	0	0	0	0	0	375	477	49,750	8,250	0	32,125
Nephrocytium agardhianum	0	0	0	0	0	0	0	2,000	0	0	0
	0	0	0	0	0	0	0	250	0	0	0
Oocystis sp.	0	85	0	0	0	0	0	0	0	0	0
	0	3	0	0	0	0	0	0	0	0	0
Pediastrum duplex	0	0	0	0	0	200	0	0	0	0	0
	0	0	0	0	0	8	0	0	0	0	0
Pseudo-sphaerocystis lacustris	0	0	0	0	0	0	0	0	269,800	0	112,243
	0	0	0	0	0	0	0	0	3,250	0	625
Total	0	219	19,579,574	134,175	6,388	11,213	11,782	972,924	361,075	0	155,994
	0	6	4,038	64,375	63	1,883	582	57,750	11,875	0	34,000
Cryptophyta											
Chroomonas sp.	0	0	0	347,500	34,750	180,000	3,840	1,800,000	0	0	0
	0	0	0	2,500	250	1,875	40	18,750	0	0	0
Cryptomonas ovata	0	0	0	0	0	0	30,752	0	0	0	0
	0	0	0	0	0	0	6	0	0	0	0
Cryptomonas cyst	0	0	0	0	0	0	0	301,875	0	0	0
	0	0	0	0	0	0	0	875	0	0	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date 9-21-88	2-23-89	5-9-89	6-20-89	8-15-89	10-26-89	2-7-90	5-8-90	8-8-90	9-12-90	10-25-90
	Site 7, Devils Lake, East Bay east--Continued										
Cryptophyta--Continued											
Cryptophyta cyst	0 0	0 0	0 0	0 0	0 0	0 0	4,310 3	0 0	0 0	0 0	0 0
Total	0 0	0 0	0 0	347,500 2,500	34,750 250	180,000 1,875	38,902 49	2,101,875 19,625	0 0	0 0	0 0
Cyanophyta											
Anacystis nidulans	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	6,800 4,250	0 0	0 0
Anacystis sp.	0 0	45 28	1,250 1,250	0 0	0 0	4,817 6,250	0 0	0 0	0 0	0 0	0 0
Aphanizomenon flos aquae	21,091,032 96,111	0 0	265 2	9,785 94	24,046,750 216,500	7,323,902 69,681	0 0	0 0	17,572,038 249,625	14,455,847 205,438	4,729,682 60,001
Aphanocapsa delicatissima	0 0	0 0	47,025 26,125	4,950 2,750	0 0	0 0	0 0	2,500 2,500	3,600 2,000	4,500 2,500	0 0
Aphanocapsa elachista var. conferta	0 0	0 0	0 0	0 0	5,000 5,000	0 0	0 0	0 0	0 0	0 0	0 0
Chroococcus dispersus	0 0	438 13	10,500 2,500	1,575 375	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Chroococcus sp.	0 0	0 0	2,575 250	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date 9-21-88	2-23-89	5-9-89	6-20-89	8-15-89	10-26-89	2-7-90	5-8-90	8-8-90	9-12-90	10-25-90
					Site 7, Devils Lake, East Bay east--Continued						
Cyanophyta--Continued											
Coelosphaerium	0	0	0	0	113,400	0	0	0	0	0	0
dubium	0	0	0	0	9,000	0	0	0	0	0	0
Dactylococcopsis	372	0	0	0	0	0	0	2,366	0	0	0
fascicularis	31	0	0	0	0	0	0	375	0	0	0
Marsoniella	0	0	93,150	0	0	0	0	0	0	0	1,350
elegans	0	0	34,500	0	0	0	0	0	0	0	750
Microcystis	0	0	888	41,200	14,811,400	0	0	0	267,800	402,975	0
aeruginosa	0	0	11	500	179,750	0	0	0	13,000	3,563	0
Oscillatoria	5,321	0	0	0	0	0	0	0	0	0	0
tenuis var. tergestina	626	0	0	0	0	0	0	0	0	0	0
Phormidium	0	0	0	0	1,075,200	0	0	0	1,500	1,500	0
mucicola	0	0	0	0	112,000	0	0	0	375	375	0
Rhabdoderma	0	85	0	0	0	0	0	0	0	0	0
sigmoidea f. minor	0	53	0	0	0	0	0	0	0	0	0
Synechococcus	0	334	0	0	0	0	0	0	0	0	0
sp.	0	20	0	0	0	0	0	0	0	0	0
Total	21,096,725	902	155,653	57,510	40,051,750	7,328,719	0	4,866	17,851,738	14,864,822	4,731,032
	96,768	114	64,638	3,719	522,250	75,931	0	2,875	269,250	211,876	60,751

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-20-89	8-15-89	10-26-89	2-7-90	5-8-90	8-8-90	9-12-90	10-25-90
					Site 7, Devils Lake, East Bay east--Continued						
Euglenophyta											
Euglena sp.	0 0	0 0	0 0	29,295 31	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Total	0 0	0 0	0 0	29,295 31	0 0	0 0	0 0	0 0	0 0	0 0	0 0

Organism scientific name Family Genus species	Date						
	9-21-88	2-22-89	5-9-89	6-21-89	8-15-89	10-26-89	2-7-90
				Site 8, East Devils Lake inlet			
Bacillariophyta							
Chaetoceros elmorei	0 0	0 0	0 0	0 0	0 0	2,527,425 750	589,345 2,000
Chaetoceros sp.	0 0	0 0	0 0	0 0	1,060,887 625	0 0	0 0
Cyclotella meneghiniana	0 0	0 0	0 0	0 0	0 0	3,144,375 2,016	112,397 125
Entomoeneis paludosa	0 0	0 0	0 0	0 0	0 0	10,401,750 750	0 0
Gomphonema sp.	0 0	0 0	0 0	502,366 798	0 0	0 0	0 0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date 9-21-88	2-22-89	5-9-89	6-21-89	8-15-89	10-26-89	2-7-90
			Site 8, East Devils Lake inlet--Continued				
Bacillariophyta--Continued							
Hantzschia amphioxys	0	0	0	0	0	70,400	0
	0	0	0	0	0	16	0
Navicula capitata	0	0	0	159,486	0	0	0
var. hungarica	0	0	0	293	0	0	0
Navicula cryuptocephala	0	0	0	0	0	15,437	0
var. veneta	0	0	0	0	0	16	0
Navicula vaucheriae	0	0	2,139	0	0	0	0
	0	0	76	0	0	0	0
Nitzchia hungarica	0	0	0	175,875	0	50,000	0
	0	0	0	125	0	500	0
Nitzchia kuetzingiana	1,015	0	18,186	0	0	0	0
	20	0	102	0	0	0	0
Nitzchia linearis	0	0	0	0	0	84,902	0
	0	0	0	0	0	16	0
Nitzchia palea	6,555	0	0	0	0	0	0
	10	0	0	0	0	0	0
Nitzchia reversa	0	0	0	728	0	0	0
	0	0	0	63	0	0	0
Stephanodiscus dubius	0	0	0	0	0	1,829	0
	0	0	0	0	0	31	0
Stephanodiscus hantzschii	0	0	0	0	0	2,421,500	11,450
	0	0	0	0	0	36,250	125
Stephanodiscus sp.	1,145	0	0	0	0	0	0
	50	0	0	0	0	0	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date						
	9-21-88	2-22-89	5-9-89	6-21-89	8-15-89	10-26-89	2-7-90
			Site 8, East Devils Lake inlet--Continued				
Bacillariophyta--Continued							
Surirella ovata	0 0	0 0	142,029 3	1,156,680 27	0 0	0 0	0 0
Synedra pulchella	0 0	0 0	0 0	0 0	0 0	16,080 8	0 0
Synedra tabulata	0 0	0 0	0 0	38,070 27	0 0	0 0	0 0
Total	8,715 80	0 0	162,354 181	2,033,205 1,333	1,060,887 625	18,733,698 40,353	713,192 2,250
Chlorophyta							
Ankistrodesmus falcatus var. falcatus	0 0	0 0	0 0	0 0	0 0	369,179 10,250	0 0
Ankyra judayi	0 0	0 0	0 0	7,675 250	0 0	0 0	0 0
Chlamydomonas sp.	0 0	588 4	0 0	6,338 63	0 0	0 0	0 0
Chlorella sp.	206 20	0 0	0 0	64,050 15,250	5,775 1,375	0 0	0 0
Chlorococcum sp.	4,896 90	165 2	0 0	0 0	0 0	65,500 1,000	0 0
Chlorogonium sp.	10,764 30	0 0	0 0	0 0	0 0	0 0	0 0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date						
	9-21-88	2-22-89	5-9-89	6-21-89	8-15-89	10-26-89	2-7-90
			Site 8, East Devils Lake inlet--Continued				
Chlorophyta--Continued							
Coccomyxa sp.	0 0	0 0	143,325 22,750	172,900 133,000	0 0	0 0	0 0
Crucigenia quadrata	0 0	0 0	582 32	0 0	0 0	0 0	0 0
Dictyosphaerium sp.	0 0	0 0	0 0	0 0	0 0	56,966 8,000	0 0
Keratococcus sp.	0 0	0 0	0 0	11,200 500	0 0	0 0	0 0
Kirchneriella lunaris	0 0	72 4	1,361 108	0 0	0 0	0 0	254 31
Mesotaenium sp.	0 0	0 0	0 0	0 0	0 0	0 0	97,190 4,125
Monoraphidium contortum	0 0	0 0	0 0	0 0	0 0	0 0	32,888 500
Nannochloris sp.	0 0	0 0	0 0	0 0	0 0	3,166,662 309,000	7,835,725 380,375
Oocystis pusilla	0 0	0 0	0 0	1,259 31	0 0	0 0	0 0
Oocystis submarina	0 0	0 0	0 0	0 0	0 0	11,050 500	0 0
Oocystis sp.	0 0	57 2	0 0	0 0	8,305 375	0 0	0 0
Total	15,866 140	882 12	145,268 22,890	263,422 149,094	14,080 1,750	3,669,357 328,750	7,966,057 385,031

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date 9-21-88	2-22-89	5-9-89	6-21-89	8-15-89	10-26-89	2-7-90
			Site 8, East Devils Lake inlet--Continued				
Cryptophyta							
Chroomonas sp.	0 0	0 0	0 0	86,875 625	69,500 500	1,224,000 12,750	0 0
Total	0 0	0 0	0 0	86,875 625	69,500 500	1,224,000 12,750	0 0
Cyanophyta							
Anabaena flos aquae	0 0	0 0	0 0	104,699 1,565	0 0	0 0	0 0
Anacystis sp.	0 0	677 431	11,647 7,250	0 0	0 0	0 0	30,375 20,250
Aphanizomenon flos aquae	2,458,476 21,000	0 0	0 0	0 0	272,967 369,250	0 0	0 0
Aphanocapsa delicatissima	108 60	0 0	0 0	1,800 1,000	5,400 3,000	0 0	0 0
Aphanocapsa elachista	0 0	0 0	5,145 2,000	0 0	0 0	137,550 32,750	344,925 82,125
Aphanocapsa elachista var. conferta	0 0	0 0	0 0	0 0	2,000 2,000	0 0	0 0
Chroococcus dispersus	206 20	3,025 147	19,313 1,875	0 0	0 0	0 0	0 0
Chroococcus minimus	8,106 1,930	0 0	0 0	0 0	0 0	0 0	0 0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date 9-21-88	2-22-89	5-9-89	6-21-89	8-15-89	10-26-89	2-7-90
			Site 8, East Devils Lake inlet--Continued				
Cyanophyta--Continued							
Dactylococcopsis	0	0	680	2,613	0	0	0
fascicularis	0	0	324	125	0	0	0
Dactylococcopsis	420	0	0	0	0	0	0
raphidioides	20	0	0	0	0	0	0
Dactylococcopsis sp.	0	23	0	0	0	293,426	18,288
	0	2	0	0	0	13,500	875
Gleocapsa sp.	0	12	0	0	0	0	0
	0	23	0	0	0	0	0
Microcystis aeruginosa	0	0	0	0	971,685	0	0
	0	0	0	0	17,875	0	0
Nodularia spumigena	1,629,232	0	0	0	0	652,121	0
	1,470	0	0	0	0	8,500	0
Oscillatoria	0	363	0	0	0	0	0
angustissima	0	231	0	0	0	0	0
Oscillatoria limnetica	0	0	0	0	0	0	5,752
	0	0	0	0	0	0	1,438
Oscillatoria	0	266	0	6,233	0	0	4,440
subtilissima	0	59	0	751	0	0	375
Oscillatoria sp.	144	0	0	0	0	0	0
	40	0	0	0	0	0	0
Phormidium mucicola	0	0	0	0	8,388	0	0
	0	0	0	0	1,375	0	0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date						
	9-21-88	2-22-89	5-9-89	6-21-89	8-15-89	10-26-89	2-7-90
			Site 8, East Devils Lake inlet--Continued				
Cyanophyta--Continued							
Phormidium sp.	0 0	0 0	0 0	0 0	0 0	3,500 3,000	0 0
Rhabdoderma sigmoidea	0 0	121 23	0 0	0 0	0 0	0 0	3,400 250
Rhabdoderma sigmoidea f. minor	282 120	152 95	0 0	0 0	0 0	0 0	0 0
Rhabdogloea ellipsoidea	0 0	0 0	638 38	0 0	0 0	0 0	0 0
Synechococcus sp.	800 510	434 26	0 0	0 0	0 0	0 0	0 0
Total	4,097,774 25,170	5,073 1,037	37,423 11,487	115,345 3,441	1,260,440 393,500	1,086,597 57,750	407,180 105,313
Euglenophyta							
Euglena proxima	0 0	20,206 10	0 0	0 0	0 0	0 0	0 0
Euglena sp.	0 0	31,485 8	0 0	0 0	0 0	887,965 250	703,130 125
Trachelomonas sp.	0 0	0 0	0 0	0 0	0 0	86,200 250	0 0
Total	0 0	51,691 18	0 0	0 0	0 0	974,165 500	703,130 125

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date 2-7-90	5-9-90	8-8-90
Site 9, Devils Lake, Fort Totten Bay			
Bacillariophyta			
Achnanthes hauckiana	0	5,848	0
	0	19	0
Amphora coffeaeformis	86,400	0	0
	160	0	0
Amphora ovalis	0	0	19,141
pediculus	0	0	45
Amphora veneta	0	18,240	0
	0	38	0
Caloneis bacillaris	0	33,404	0
var. thermalis	0	19	0
Chaetoceros elmorei	0	0	13,572
	0	0	45
Cyclotella pediculus	0	0	96,962
	0	0	45
Cyclotella meneghiniana	309,242	103,142	2,641,797
	63	95	6,570
Entomoeneis paludosa	0	465,918	0
	0	19	0
Fragilaria capucina	0	98,194	0
	0	399	0
Fragilaria vaucheriae	0	2,687	0
	0	19	0
Navicula agnewii	0	28,454	0
	0	247	0
Navicula capitata	101,726	18,844	0
	63	38	0
Navicula cryptocephala	0	14,102	0
	0	38	0
Navicula tripunctata	0	54,720	0
	0	76	0
Nitzchia gracilis	0	0	43,416
	0	0	90
Nitzchia halophila	0	83,767	0
	0	76	0
Nitzchia kuetzingiana	0	0	30,816
	0	0	180
Nitzchia reversa	2,412	0	0
	10	0	0
Nitzchia sigmoida	2,400,000	0	0
	20	0	0
Melosira granulata	0	75,559	18,962,136
	0	152	20,070
Stephanodiscus tenuis	0	153,596	0
	0	893	0
Total	2,899,780	1,156,475	21,807,840
	316	2,128	27,045

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date 2-7-90	5-9-90	8-8-90
Site 9, Devils Lake, Fort Totten Bay--Continued			
Chlorophyta			
Actinastrum hantzchii	0 0	0 0	26,800 2,000
Ankistrodesmus falcatus var. falcatus	0 0	11,875 125	21,488 375
Carteria sp.	0 0	0 0	67,025 250
Chlamydomonas sp.	72,226 1,188	16,115 375	86,200 250
Chlorella sp.	0 0	49,875 11,875	30,975 7,375
Chlorococcum sp.	0 0	255,125 1,625	14,138 125
Closteriopsis longissima	0 0	0 0	549,375 625
Coelastrum sphaericum	0 0	0 0	54,400 1,000
Coenochloris sp.	0 0	519 31	0 0
Dictyosphaerium ehrenbergianum	0 0	56,250 1,250	99,825 2,750
Dunaliella viridis	0 0	1,036,613 2,625	0 0

Organism scientific name Family Genus species	Date 2-7-90	5-9-90	8-8-90
Site 9, Devils Lake, Fort Totten Bay--Continued			
Chlorophyta--Continued			
Dunaliella sp.	2,146,125 28,313	223,650 7,875	0 0
Elakatothrix viridis	0 0	0 0	6,400 250
Kirchneriella contorta	0 0	0 0	3,675 375
Kirchneriella lunaris	0 0	63,550 7,750	6,550 500
Kirchneriella subsolitaria	0 0	0 0	17,925 375
Micractinium pusillum	0 0	0 0	41,200 2,000
Monoraphidium minutum	0 0	0 0	4,313 125
Nannochloris sp.	700 250	786,025 170,875	138 125
Nephrocytium agardhianum	0 0	2,000 250	0 0
Oocystis gloecystiformis	0 0	0 0	107,350 9,500
Oocystis lacustris	0 0	93,750 375	0 0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date 2-7-90	5-9-90	8-8-90
Site 9, Devils Lake, Fort Totten Bay--Continued			
Chlorophyta--Continued			
Pediastrum boryanum	0 0	260 31	0 0
Scenedesmus abundans	0 0	226 16	0 0
Scenedesmus dimorphus	0 0	43,000 1,000	0 0
Scenedesmus ecornus	0 0	6,000 750	0 0
Scenedesmus opoliensis	0 0	14,000 1,000	0 0
Scenedesmus quadricauda	0 0	18,000 250	0 0
Tetraedon caudatum	0 0	9,125 125	0 0
Tetraedon minium	0 0	30,900 375	0 0
Testrastrum staurogeniaeforme	0 0	1,050 250	0 0
Total	2,219,051 29,751	2,717,908 208,828	1,133,464 27,875
Cryptophyta			
Chroomonas sp.	96,000 1,000	2,928,000 30,500	48,000 500
Cryptomonas marsonii	0 0	836,782 125	0 0
Cryptomonas ovata	96,615 31	0 0	0 0
Total	192,615 1,031	3,764,782 30,625	52,313 625
Cyanophyta			
Anabaena flos aquae	0 0	0 0	1,675,625 6,250
Anabaenopsis elenkinii	0 0	0 0	8,326,050 35,250
Anacystis sp.	0 0	0 0	285,050 176,000
Aphanocapsa delicatissima	0 0	750 750	117,000 65,000
Chroococcus minimus	0 0	0 0	4,200 1,000

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date 2-7-90	5-9-90	8-8-90
Site 9, Devils Lake, Fort Totten Bay--Continued			
Cyanophyta--Continued			
Dactylococcopsis	0	14,985	2,800
fasciculatis	0	2,375	125
Dactylococcopsis sp.	0	0	1,000
	0	0	250
Marsoniella elegans	0	0	1,766,625
	0	0	98,125
Mersomopedia tenuissima	0	3,600	5,500
	0	4,500	5,500
Mersomopedia sp.	0	3,675	0
	0	875	0
Microcystis aeruginosa	0	0	2,437,125
	0	0	25,125
Nodularia spumigena	767	0	0
	10	0	0
Oscillatoria prolifica	0	0	17,785,375
	0	0	328,750
Oscillatoria splendida	0	0	31,500
	0	0	2,500
Oscillatoria	13,275	0	0
subtilissima	1,125	0	0
Total	14,042	23,010	32,437,850
	1,135	8,500	743,875

Organism scientific name Family Genus species	Date 2-7-90	5-9-90	8-8-90
Site 9, Devils Lake, Fort Totten Bay--Continued			
Euglenophyta			
Euglena polymorpha	0	58,432	0
	0	31	0
Euglena sp.	0	506,410	904,381
	0	63	79
Trachelomonas horrida	0	129,849	0
	0	31	0
Total	0	694,691	904,381
	0	125	79

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date 5-9-90	8-8-90	9-12-90	10-25-90
Site 10, East Devils Lake main bay				
Bacillariophyta				
Chaetoceros elmorei	0 0	4,826 16	528,825 375	1,170,869 1,000
Cyclotella meneghiniana	392,688 625	0 0	169,050 188	633,366 625
Diatoma tenue var. tenue	95,804 375	0 0	0 0	0 0
Entomoeneis paludosa	2,316,123 167	0 0	0 0	0 0
Navicula capitata	8,100 125	0 0	0 0	0 0
Navicula tripunctata	1,070,410 1,375	0 0	0 0	0 0
Nitzchia acicularis	319,550 1,375	0 0	0 0	0 0
Nitzchia kuetzingiana	0 0	125,715 625	0 0	0 0
Nitzchia palea	0 0	0 0	68,024 313	0 0
Stephanodiscus hantzschii	0 0	0 0	50,728 1,188	652,058 20,500
Stephanodiscus tenuis	499,432 6,125	0 0	0 0	612,404 750
Stephanodiscus sp.	0 0	3,472,706 31	1,209,400 16	1,209,405 16
Surirella ovata	255,654 42	0 0	0 0	0 0
Total	4,957,761 10,209	3,603,247 672	2,026,027 2,080	4,278,102 22,891
Chlorophyta				
Ankistrodesmus falcatus var. falcatus	2,375 250	0 0	0 0	0 0
Chlorella sp.	79,275 18,875	0 0	0 0	5,775 1,375
Dictyosphaerium ehrenbergianum	47,122 5,625	0 0	0 0	0 0
Gloecoccus sp.	2,094,333 500	0 0	0 0	0 0
Kirchneriella lunaris	1,025 125	0 0	0 0	17,625 5,875
Monoraphidium contortum	56,000 4,000	0 0	0 0	0 0

Table 4.--Phytoplankton species, densities, and volumes in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date 5-9-90	8-8-90	9-12-90	10-25-90
Site 10, East Devils Lake main bay--Continued				
Chlorophyta--Continued				
Nannochloris sp.	1,179,900 256,500	1,000 625	2,269 2,063	109,850 84,500
Oocystis eremosphaeria	0 0	0 0	0 0	1,329,408 500
Oocystis parva	0 0	0 0	0 0	20,276 500
Oocystis sp.	0 0	0 0	10,882 16	0 0
Pseudosphaerocystis lacustris	0 0	29,320 875	0 0	0 0
Schroederia setigera	0 0	3,276 63	3,830 63	0 0
Stephanoptera gracilis	169,418 375	0 0	0 0	0 0
Total	3,629,448 286,250	33,596 1,563	16,981 2,142	1,482,934 92,750
Cryptophyta				
Chroomonas sp.	600,000 6,250	12,000 125	30,048 313	132,000 1,375
Total	600,000 6,250	12,000 125	30,048 313	132,000 1,375

Organism scientific name Family Genus species	Date 5-9-90	8-8-90	9-12-90	10-25-90
Site 10, East Devils Lake main bay--Continued				
Cyanophyta				
Anacystis sp.	0 0	5,000 3,125	6,875 4,188	30,375 16,875
Aphanocapsa delicatissima	19,500 19,500	0 0	0 0	5,400 3,000
Coelosphaerium collinsii	0 0	0 0	0 0	673,852 107,250
Coelosphaerium kuetzingianum	0 0	0 0	318,023 15,438	0 0
Dactylococcopsis fascicularis	2,750 125	0 0	668 63	4,860 250
Gomphosphaeria aponina	0 0	233,188 1,625	2,296 16	0 0
Microcystis aeruginosa	113,094 3,375	8,942,219 164,500	1,562,250 13,813	162,059 7,875
Nodularia spumigena	0 0	252,055 655	0 0	0 0
Phormidium mucicola	0 0	116,875 13,750	1,128 282	0 0
Total	135,344 23,000	9,549,337 183,655	1,891,240 33,800	876,546 135,250

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990

[The first line values are individuals per liter; the second line values are a replicate sample; sp., species; avg., average; lgth., length; <, less than; --, no data]

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
					Site 1, Devils Lake, West Bay						
Cladocera											
Alona sp.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
	0	0	0	0	0	0	0	0	0	0	.1
Cladoceran juvenile	0	0	0	0	0	0	0	9.5	16.8	5.5	0
	0	0	0	0	0	0	0	11	4	6.6	0
Ceriodaphnia quadrangula	4.7	0	0	0	257	0	0	0	18	39.6	3
	8.3	0	0	0	469.4	.2	0	0	17	58.3	2.8
Chydorus sphaericus	169.7	0	0	1	229	1.2	0	0	56.4	66	7.2
	81.4	0	0	0	391.2	2.8	0	2.2	59	63.8	12.6
Daphnia pulex	23.6	0	1	26.1	369.6	2.1	2.2	26.6	34.8	15.4	.2
	5.8	.4	1.5	4.4	335.3	1.4	2.2	28.6	41	48.4	.3
Daphnia similis	0	0	0	0	0	.1	0	0	0	0	0
	0	0	0	0	0	.7	0	0	0	0	0
Diaphanosoma birgei	23.6	0	0	0	0	.1	0	0	208.8	22	0
	16.9	0	0	0	0	.2	0	0	181	55	0
Diaphanosoma leuchtenbergiannum	0	0	0	0	1.2	0	0	0	0	0	0
	0	0	0	0	1.2	0	0	0	0	0	0
Moina affinis	0	0	0	0	0	0	0	0	9.6	0	0
	0	0	0	0	0	0	0	0	9	.05	0
Total	221.6	0	1	27.1	856.8	3.5	2.2	36.1	344.4	148.5	10.5
	112.4	.4	1.5	4.4	1,197.1	5.3	2.2	41.8	311	232.15	15.8

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
	Site 1, Devils Lake, West Bay--Continued										
Cladocera--Continued											
Average total Cladocera	167.0	0.2	1.25	15.75	1,026.95	4.4	2.2	38.95	327.7	190.325	13.15
Total small Cladocera	198.0	0	0	1	487.2	1.3	0	9.5	309.6	133.1	10.3
(avg. lgth. < 0.7 mm)	106.6	0	0	0	861.8	3.2	0	13.2	270	183.75	15.5
Average total small Cladocera	152.3	0	0	.5	674.5	2.25	0	11.35	289.8	158.425	12.9
Total large Cladocera	23.6	0	1	26.1	369.6	2.2	2.2	26.6	34.8	15.4	.2
(avg. lgth. > 0.7 mm)	5.8	.4	1.5	4.4	335.3	2.1	2.2	28.6	41	48.4	.3
Average total large Cladocera	14.7	.2	1.25	15.25	352.45	2.15	2.2	27.6	37.9	31.9	.25
Copepoda											
Acanthocyclops robustus	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
female	0	0	0	0	0	0	0	0	0	0	0
Calanoid juvenile	0	34.6	0	52	447.3	14	13.2	72.2	108	52.8	18.6
	0	12	0	14.8	357.8	16.1	39.6	50.6	106	103.4	40.6
Calanoid nauplii	0	7.3	0	13.2	0	19.6	0	98.8	45.6	16.5	5.4
	0	4.8	0	15.4	0	24.5	0	99	49	35.2	19.6
Calanoid egg	0	0	0	0	72.1	0	0	0	1.2	0	37.2
	0	0	0	11.3	28	0	0	0	0	0	21
Copepod juvenile	0	0	41	0	0	0	0	0	0	0	0
	0	0	238.7	0	0	0	0	0	0	0	0

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
	Site 1, Devils Lake, West Bay--Continued										
Copepoda--Continued											
Copepod nauplii	0.0 0	0.0 0	250 357.9	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0
Copepod egg	0 0	0 0	53 143	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Cyclopoid juvenile	61.3 56.6	0 0	0 0	0 0	0 0	8 4.9	2.2 2.2	1.9 2.2	14.4 10	4.4 9.9	1.8 7
Cyclopoid nauplii	320.5 270	0 0	0 0	0 0	0 0	2 7	2.2 0	17.1 22	74.4 78	60.5 104.5	56.4 94.5
Diacyclops thomasi male	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 2.2	1.2 0	.1 .3	0 0
Diacyclops thomasi female	4.7 2.7	1.8 1	0 0	.3 0	0 0	0 .5	0 0	.9 0	1.2 1	.2 .4	0 0
Diacyclops thomasi egg	0 0	0 0	0 0	0 0	0 0	0 1.9	0 0	0 0	0 40	4.2 6.7	0 0
Diaptomus sicilis male	89.6 70.6	83.8 84.3	5 27.6	14.6 6.4	212.3 239.3	62.3 65.8	107.8 103.4	5.7 2.2	19.2 24	6.6 25.3	27.6 49.7
Diaptomus sicilis female	108.4 106	52.8 57.6	19 24.1	13.5 8.4	335.3 287.6	28 34.3	92.4 70.4	9.5 6.6	9.6 13	9.9 37.4	27 34.3
Diaptomus sicilis juvenile	141.4 39.2	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Diaptomus sicilis egg	0 0	114.8 109.2	0 0	0 0	0 0	28 66.5	396 134.2	22.8 28.6	10.8 11	11 42.9	13.2 19.6

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
	Site 1, Devils Lake, West Bay--Continued										
Copepoda--Continued											
Eucyclops speratus	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
female	0	0	0	0	0	0	0	0	0	.3	1.4
Eucyclops speratus male	0	0	0	0	0	0	0	0	0	0	.1
	0	0	0	0	0	0	0	0	0	.2	.1
Eucyclops speratus egg	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	2.1	0
Hesperodiaptomus	0	0	0	0	.2	0	0	0	0	0	0
nevadensis female	0	0	0	0	0	0	0	0	0	0	0
Hesperodiaptomus sp.	0	0	1	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
Mesocyclops edax female	0	0	0	.3	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
Total Copepoda	202.7	138.4	24	28.7	548.4	90.3	200.2	16.1	31.2	16.8	55.9
adults	179.3	142.9	51.7	14.8	526.9	100.6	173.8	11	38	63.9	85.5
Average total Copepoda adults	191	140.65	37.85	21.75	537.65	95.45	187	13.55	34.6	40.35	70.7
Total Copepoda	523.2	41.9	291	65.2	447.3	43.6	17.6	190	242.4	134.2	82.2
juveniles	365.8	16.8	596.6	30.2	357.8	52.5	41.8	173.8	243	253	161.7
Average total Copepoda juveniles	444.5	29.35	443.8	47.7	402.55	48.05	29.7	181.9	242.7	193.6	121.95
Total Copepoda eggs	0	114.8	53	0	72.1	28	396	22.8	12	15.2	50.4
	0	109.2	143	11.3	28	68.4	134.2	28.6	51	51.7	40.6

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
	Site 1, Devils Lake, West Bay--Continued										
Copepoda--Continued											
Average total Copepoda eggs	0.0	112	98	5.65	50.05	48.2	265.1	25.7	31.5	33.45	45.5
Total Calanoid Copepods (juveniles plus adults)	339.4 215.8	293.3 267.9	25 51.7	93.3 45	995.1 884.7	151.9 207.2	609.4 347.6	209 187	193.2 203	96.8 244.5	93 165.2
Average total Calanoid Copepods	277.6	280.6	38.35	69.15	939.9	179.55	478.5	198	198.1	170.65	129.1
Total Cyclopoid Copepods	386.5 329.3	1.8 1	0 0	.6 0	.6 0	10 12.4	4.4 2.2	19.9 26.4	91.2 89	65.2 115.6	59.5 103
Average total Cyclopoid Copepods	357.9	1.4	0	.3	.3	11.2	3.3	23.15	90.1	90.4	81.25
Rotifera											
Asplancha sp.	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 .7	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0
Brachionus havanaensis	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	2.4 1	73.7 84.7	0 0
Brachionus urceolaris	0 0	0 0	0 0	0 0	0 0	0 0	0 0	3.8 4.4	0 0	0 0	0 0
Epiphanes sp.	0 0	0 0	0 0	0 0	0 0	0 0	13.2 2.2	20.9 24.2	0 0	0 0	<.1 <.1
Filinia longiseta	56.6 22.5	.2 0	0 0	.3 0	0 0	3 14.7	0 0	0 0	0 0	16.5 18.7	16.2 18.9
Keratella cochlearis	660 644	0 0	2 0	0 0	0 0	3 2.1	0 0	0 0	0 0	0 0	0 0

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
	Site 1, Devils Lake, West Bay--Continued										
Rotifera--Continued											
Keratella quadrata	198 147.8	0.9 .2	9 0	0.3 0	0.0 0	12 30.1	11 4.4	7.6 13.2	0.0 1	0.0 0	9 19.6
Notholca acuminata	0 0	0 0	0 0	0 0	0 0	0 0	0 0	3.8 4.4	0 0	0 0	4.2 .7
Trichocerca sp.	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	1.1 1.1	0 0
Total	914.6 814.3	1.1 .2	11 0	.6 0	0 0	18 47.6	24.2 6.6	36.1 46.2	2.4 2	91.3 104.5	29.45 39.25
Average total Rotifera	864.45	.65	5.5	.3	0	32.8	15.4	41.15	2.2	97.9	34.35

Organism scientific name Family Genus species	Date										
	9-21-88	1-30-89	5-9-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
	Site 2, Devils Lake, Sixmile Bay										
Cladocera											
Cladoceran juvenile	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.4 0	0.0 0	6 3	0.8 1.8	1.6 2.8	0.0 .1
Ceriodaphnia quadrangula	10.6 3	0 0	0 0	0 0	257.9 343.9	0 .6	0 0	0 0	34.4 39.6	35.6 34.4	3.2 3.2

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	1-30-89	5-9-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
	Site 2, Devils Lake, Sixmile Bay--Continued										
Cladocera--Continued											
Chydorus sphaericus	24.2 38	0.0 0	0.0 0	2.7 1.2	214.9 229.5	0.2 .3	0.0 0	0.0 0	60.8 61.2	75.2 71.2	0.4 1.2
Daphnia pulex	41.6 6.8	3.9 1.1	7.8 .8	3.3 11.3	128.9 13.1	.5 1.5	1 2	21.5 27.5	4.8 3.6	5.6 4.8	1.6 1.6
Diaphanosoma birgei	3.9 2	0 0	0 0	0 0	0 0	.3 .6	0 0	0 0	65.6 85.5	18.4 21.2	.1 <.1
Diaphanosoma leuchtenbergiannum	0 0	0 0	0 0	0 0	42.9 34.4	0 0	0 0	0 0	0 0	0 0	0 0
Total	80.3 49.8	3.9 1.1	7.8 .8	6 12.5	644.6 620.9	1.4 3	1 2	27.5 30.5	166.4 191.7	136.4 134.4	5.3 6.15
Average total Cladocera	65.05	2.5	4.3	9.25	632.75	2.2	1.5	29	179.05	135.4	5.725
Total small Cladocera (avg. lgth. < 0.7 mm)	38.7 43	0 0	0 0	2.7 1.2	515.7 607.8	.9 1.5	0 0	6 3	161.6 188.1	130.8 129.6	3.7 4.55
Average total small Cladocera	40.85	0	0	1.95	561.75	1.2	0	4.5	174.85	130.2	4.125
Total large Cladocera (avg. lgth. > 0.7 mm)	41.6 6.8	3.9 1.1	7.8 .8	3.3 11.3	128.9 13.1	.5 1.5	1 2	21.5 27.5	4.8 3.6	5.6 4.8	1.6 1.6
Average total large Cladocera	24.2	2.5	4.3	7.3	71	1	1.5	24.5	4.2	5.2	1.6

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	1-30-89	5-9-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
	Site 2, Devils Lake, Sixmile Bay--Continued										
Copepoda											
Acanthocyclops robustus	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
female	0	0	0	0	2.4	0	0	0	0	0	0
Calanoid juvenile	0	0	0	3.5	257.9	9.3	70	34.5	86.4	43.6	17.4
	0	0	0	5.5	139.6	11.1	78	22	78.3	35.2	18.2
Calanoid nauplii	0	.6	0	2.2	128.9	3.6	0	206.5	25.6	9.2	1
	0	1.7	0	17.1	115.6	6.6	1	171.5	18	8	2.6
Calanoid egg	0	0	0	0	8.5	0	0	0	8	1.2	2
	0	0	0	3.8	21.3	0	0	0	23.4	1.6	0
Copepod juvenile	0	0	38.4	0	0	0	0	0	0	0	0
	0	0	45.2	0	0	0	0	0	0	0	0
Copepod nauplii	0	0	118.8	0	0	0	0	0	0	0	0
	0	0	298.4	0	0	0	0	0	0	0	0
Copepod egg	0	0	155.4	0	0	0	0	0	0	0	0
	0	0	43.2	0	0	0	0	0	0	0	0
Cyclopoid juvenile	1.9	0	0	0	0	0	0	0	4.8	12.8	.2
	.5	0	0	0	0	.3	0	.5	6.3	17.2	.2
Cyclopoid nauplii	18.4	.6	0	0	0	1.6	2	49.5	20	38.8	44.8
	30	0	0	0	0	.1	2	72	32.4	45.2	38
Diacyclops thomasi male	1	0	0	0	0	0	0	0	2.4	1.6	0
	.6	0	0	0	0	<.1	0	0	1.8	2.4	0
Diacyclops thomasi	0	.3	0	0	0	.4	0	0	.8	1.2	0
female	0	0	0	0	0	.1	0	0	.5	.8	0

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	1-30-89	5-9-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
	Site 2, Devils Lake, Sixmile Bay--Continued										
Copepoda--Continued											
Diacyclops thomasi egg	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 .2	0.0 0	0.0 0	0.0 16.5	24.4 17.2	0.0 0
Diacyclops navus male	0 0	0 0	0 0	0 0	.4 0	0 0	0 0	0 0	0 0	0 0	0 0
Diacyclops navus female	0 0	0 0	0 0	0 0	.4 .4	0 0	0 0	0 0	0 0	0 0	0 0
Diaptomus sicilis male	53.2 51.7	35.3 20.1	19.2 25.2	2 11	47.3 63.4	9.9 11.4	50 41	26.5 16.5	2.4 4.5	4 4.4	23.8 14
Diaptomus sicilis female	60.9 56	20.2 30.2	36 21.8	2.8 12.2	64.8 72.8	6.6 8.1	34 29	23.5 14.5	3.2 .9	2.8 2.8	13.2 10.6
Diaptomus sicilis juvenile	96.7 14.2	23.9 22	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Diaptomus sicilis egg	0 0	29.6 32.3	0 0	2.6 0	0 0	0 4.2	70 40	62.5 33	3.2 2.5	2.4 1.6	1 4.8
Eucyclops speratus female	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 <.1	<.1 <.1
Eucyclops speratus male	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 .1	.1 .1
Eucyclops speratus egg	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 .2	0 0
Hesperodiaptomus nevadensis female	0 0	0 0	0 0	0 0	0 0	0 0	0 0	<.1 0	0 0	0 0	0 0
Hesperodiaptomus nevadensis egg	0 0	0 0	0 0	0 0	0 0	0 0	0 0	1.8 0	0 0	0 0	0 0

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	1-30-89	5-9-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
	Site 2, Devils Lake, Sixmile Bay--Continued										
Copepoda--Continued											
Macrocyclops albidis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<0.1	0.0
female	0	0	0	0	0	.1	0	0	0	<.1	0
Macrocyclops albidis egg	0	0	0	0	0	0	0	0	0	.9	0
	0	0	0	0	0	0	0	0	0	0	0
Mesocyclops edax female	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	<.1	0	<.1	0
Mesocyclops edax egg	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	1	0	0	0
Total Copepoda adults	115.1	55.8	55.2	4.8	113.3	16.9	84	51.85	8.8	9.65	37.15
	108.3	50.3	47	23.2	139	19.75	70	31.05	7.7	10.65	24.75
Average total Copepoda adults	111.7	53.05	51.1	14	126.15	18.325	77	41.45	8.25	10.15	30.95
Total Copepoda juveniles	117	25.1	157.2	5.7	386.8	14.5	72	290.5	136.8	104.4	63.4
	44.7	23.7	343.6	22.6	255.2	18.1	81	266	135	105.6	59
Average total Copepoda juveniles	80.85	24.4	250.4	14.15	321	16.3	76.5	278.25	135.9	105	61.2
Total Copepoda eggs	0	29.6	155.4	2.6	8.5	0	70	64.3	11.2	28.9	3
	0	32.3	43.2	3.8	21.3	4.4	40	34	42.4	20.6	4.8
Average total Copepoda eggs	0	30.95	99.3	3.2	14.9	2.2	55	49.15	26.8	24.75	3.9
Total Calanoid Copepods (juveniles plus adults)	210.8	109.6	55.2	13.1	498.9	29.4	224	355.35	120.8	62	56.45
	121.9	106.3	47	45.8	391.4	41.4	189	257.5	104.2	52.05	50.25
Average total Calanoid Copepods	166.35	107.95	51.1	29.45	445.15	35.4	206.5	306.425	112.5	57.025	53.35

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	1-30-89	5-9-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
	Site 2, Devils Lake, Sixmile Bay--Continued										
Copepoda--Continued											
Total Cyclopoid Copepods	21.3 31.1	0.9 0	0.0 0	0.0 0	1.2 2.8	2 .65	2 2	49.5 72.55	28 41	54.45 65.85	45.15 38.35
Average total Cyclopoid Copepods	26.2	.45	0	0	2	1.325	2	61.025	34.5	60.15	41.75
Rotifera											
Brachionus havanaensis	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	1.2 .4	0 0
Brachionus satanicus	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	1.6 3.6	0 0	0 0
Epiphanes sp.	0 0	0 0	0 0	0 0	0 0	0 0	1 7	0 .5	0 0	0 0	0 .6
Filinia longiseta	1 .5	0 0	0 0	0 0	2 85.9	1.6 .2	0 0	0 0	1.6 7.2	13.6 12.8	2.2 4
Keratella cochlearis	0 0	0 0	0 0	0 0	0 0	0 <.1	0 0	0 0	0 0	0 0	0 0
Keratella quadrata	3.9 2	.6 0	0 0	0 0	0 .2	.4 2.1	1 3	2.5 .5	2.4 9.9	15.6 10.8	12.2 12.2
Trichocerca sp.	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	.4 0	0 0	0 0
Total	4.9 2.5	.6 0	0 0	0 0	2 86.1	2 2.35	2 10	2.5 1	6 20.7	30.4 24	14.4 16.8
Average total Rotifera	3.7	.3	0	0	44.05	2.175	6	1.75	13.35	27.2	15.6

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	1-30-89	5-8-89	6-21-89	8-15-89	10-25-89	2-6-90	5-8-90	8-7-90	9-11-90	10-24-90
	Site 3, Devils Lake, Creel Bay										
Amphipoda											
Gammarus lacustris	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	<0.1 0
Hyallela azteca	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 <.1	0 0
Total	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 <.1	<.1 0
Average total Amphipoda	0	0	0	0	0	0	0	0	0	<.1	<.1
Cladocera											
Alona sp.	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	<0.1 0
Cladoceran juvenile	0 0	0 0	0 0	0 0	0 0	.6 0	0 0	0 0	4.2 3.6	3 5.5	<.1 0
Ceriodaphnia quadrangula	4.7 7.5	0 0	0 0	0 0	586.7 465.6	0 .2	0 0	<.1 0	32.4 34.8	14.5 15	1 .3
Chydorus sphaericus	8.4 9	0 0	0 0	.5 .3	270.1 419.1	.4 1.2	0 0	0 0	5.4 11.4	65.5 61.5	.6 .9
Daphnia pulex	33.5 22.6	1.1 .2	.1 .1	.3 .6	14.5 5.8	1 1.2	1.1 1.1	1.8 1.2	4.8 7.2	14.5 17.5	.6 1.6
Diaphanosoma birgei	3.7 2	0 0	0 0	0 0	0 0	.1 .2	0 0	0 0	52.8 54	22.5 21	.2 .2

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	1-30-89	5-8-89	6-21-89	8-15-89	10-25-89	2-6-90	5-8-90	8-7-90	9-11-90	10-24-90
	Site 3, Devils Lake, Creel Bay--Continued										
Cladocera--Continued											
Diaphanosoma	0.0	0.0	0.0	0.0	16.3	0.0	0.0	0.0	0.0	0.0	0.0
leuchtenbergiannum	0	0	0	0	46.5	0	0	0	0	0	0
Total	50.3	1.1	.1	.8	887.6	2.1	1.1	1.85	99.6	120	2.5
	41.1	.2	.1	.9	937	2.8	1.1	1.2	111	120.5	3
Average total Cladocera	45.7	.65	.1	.85	912.3	2.45	1.1	1.525	105.3	120.25	2.75
Total small Cladocera	16.8	0	0	.5	873.1	1.1	0	<.1	94.8	105.5	1.9
(avg. lgth. < 0.7 mm)	18.5	0	0	.3	931.2	1.6	0	0	103.8	103	1.4
Average total small Cladocera	17.65	0	0	.4	902.15	1.35	0	<.1	99.3	104.25	1.65
Total large Cladocera	33.5	1.1	.1	.3	14.5	1	1.1	1.8	4.8	14.5	.6
(avg. lgth. > 0.7 mm)	22.6	.2	.1	.6	5.8	1.2	1.1	1.2	7.2	17.5	1.6
Average total large Cladocera	28.05	.65	.1	.45	10.15	1.1	1.1	1.5	6	16	1.1
Copepoda											
Acanthocyclops vernalis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
female	0	0	0	0	0	0	0	0	0	0	.2
Acanthocyclops vernalis	0	0	0	0	0	0	0	0	0	0	.1
male	0	0	0	0	0	0	0	0	0	0	.1
Acanthocyclops vernalis	0	0	0	0	0	0	0	0	0	0	.3
egg	0	0	0	0	0	0	0	0	0	0	.9
Calanoid juvenile	0	0	0	3.3	232.8	19.2	58.3	20.7	54	29.5	22
	0	0	0	5.2	172.1	21.6	60.5	24	58.8	30	15

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	1-30-89	5-8-89	6-21-89	8-15-89	10-25-89	2-6-90	5-8-90	8-7-90	9-11-90	10-24-90
	Site 3, Devils Lake, Creel Bay--Continued										
Copepoda--Continued											
Calanoid nauplii	0.0 0	0.4 .4	0.0 0	1.6 2.3	361.1 186.3	2.2 9.8	0.0 0	61.8 57	4.8 7.2	23 16	1.2 .5
Calanoid egg	0 0	0 0	0 0	0 6.4	4.3 20.4	0 0	0 0	0 0	0 0	0 0	0 .9
Copepod juvenile	0 0	0 0	8.1 6.1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Copepod nauplii	0 0	0 0	53 23.5	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Copepod egg	0 0	0 0	24.7 13.9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Cyclopoid juvenile	0 0	0 0	0 0	0 0	0 0	.2 .4	0 0	.3 .3	6 12	2.5 2	.6 .5
Cyclopoid nauplii	60.2 66	0 0	0 0	0 0	0 0	1.8 .4	0 1.1	24.9 33	110.4 130.8	57.5 37.5	48.4 31.8
Diacyclops thomasi male	0 1	0 0	0 0	0 0	0 0	0 0	0 0	<.1 0	1.2 1.8	.5 .3	0 0
Diacyclops thomasi female	.5 0	0 0	0 0	0 0	0 0	0 0	0 0	<.1 0	1.2 .6	1 .3	0 0
Diacyclops thomasi egg	0 0	0 0	0 0	0 0	0 0	0 0	0 0	.1 0	0 0	25 6.9	0 0
Diacyclops navus female	0 0	0 0	0 0	0 0	2.4 2.4	0 0	0 0	0 0	0 0	0 0	0 0

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	1-30-89	5-8-89	6-21-89	8-15-89	10-25-89	2-6-90	5-8-90	8-7-90	9-11-90	10-24-90
	Site 3, Devils Lake, Creel Bay--Continued										
Copepoda--Continued											
Diaptomus sicilis male	8.4 7.7	45.8 89.6	7.9 4.6	4 7	228.7 143.1	17.6 21.8	36.3 22	9.6 9.6	6 1.8	2 1.5	18.8 18.8
Diaptomus sicilis female	5.2 5.1	34.7 40	7.5 4.6	5 9.9	238.4 123.6	8 14.2	39.6 24.2	7.8 3.3	.6 3.6	3.5 4	18.2 17.4
Diaptomus sicilis juvenile	30.9 7.9	50.4 48.1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Diaptomus sicilis egg	0 0	6.9 .4	0 0	3.3 0	0 0	0 1.2	19.8 30.8	51.3 30	0 5.4	1 2	1.6 1
Hesperodiaptomus nevadensis male	0 0	0 0	0 0	0 2.3	0 0	0 <.1	0 0	<.1 <.1	0 0	0 0	0 0
Hesperodiaptomus nevadensis female	0 0	0 0	0 0	0 2	0 0	.1 <.1	0 0	<.1 0	0 0	0 0	0 0
Hesperodiaptomus nevadensis egg	0 0	0 0	0 0	0 0	0 0	1.1 1.8	0 0	.1 .2	0 0	0 0	0 0
Mesocyclops edax female	0 0	0 0	0 0	0 0	0 0	0 0	0 0	<.1 0	0 0	0 0	0 0
Total Copepoda adults	14.1 13.8	80.5 129.6	15.4 9.2	9 21.2	469.5 269.1	26.8 37.9	75.9 46.2	17.75 13.15	9 7.8	7 6.1	37.2 36.5
Average total Copepoda adults	13.95	105.05	12.3	15.1	369.3	32.35	61.05	15.45	8.4	6.55	36.85
Total Copepoda juveniles	91.1 73.9	50.8 48.5	61.1 29.6	4.9 7.5	593.9 358.4	23.4 32.2	58.3 61.6	107.7 114.3	175.2 208.8	112.5 85.5	72.2 47.8
Average total Copepoda juveniles	82.5	49.65	45.35	6.2	476.15	27.8	59.95	111	192	99	60

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	1-30-89	5-8-89	6-21-89	8-15-89	10-25-89	2-6-90	5-8-90	8-7-90	9-11-90	10-24-90
	Site 3, Devils Lake, Creel Bay--Continued										
Copepoda--Continued											
Total Copepoda eggs	0.0 0	6.9 .4	24.7 13.9	3.3 6.4	4.3 20.4	1.1 3	19.8 30.8	51.5 30.2	0.0 5.4	26 8.9	1.9 2.8
Average total Copepoda eggs	0	3.65	19.3	4.85	12.35	2.05	25.3	40.85	2.7	17.45	2.35
Total Calanoid Copepods (juveniles plus adults)	44.5 20.7	138.2 178.5	15.4 9.2	17.2 28.7	1,061 625.1	48.2 70.5	154 137.5	151.4 124.15	65.4 76.8	59 53.5	61.8 52.7
Average total Calanoid Copepods	32.6	158.35	12.3	22.95	843.05	59.35	145.75	137.775	71.1	56.25	57.25
Total Cyclopoid Copepods	60.7 67	0 0	0 0	0 0	2.4 2.4	2 .8	0 1.1	25.35 33.3	118.8 145.2	61.5 40.1	49.1 32.5
Average total Cyclopoid Copepods	63.85	0	0	0	2.4	1.4	.55	29.325	132	50.8	40.8
Rotifera											
Brachionus havanaensis	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	2 4	0.0 0
Brachionus satanicus	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	4.2 3.6	0 0	0 0
Epiphanes sp.	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	3.6 0	1.5 5.5	0 0
Filinia longiseta	1 2	0 0	0 0	0 0	23.1 93.2	2.8 2.6	0 0	0 0	42 74.4	.2 0	.8 .4
Keratella cochlearis	2.6 2	0 0	0 0	0 0	0 0	.2 2	0 0	0 0	.6 0	0 0	0 0

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	1-30-89	5-8-89	6-21-89	8-15-89	10-25-89	2-6-90	5-8-90	8-7-90	9-11-90	10-24-90
	Site 3, Devils Lake, Creel Bay--Continued										
Rotifera--Continued											
Keratella quadrata	7.3 3.9	0.0 0	0.0 0	0.0 0	0.0 3.4	1 3.2	2.2 0	9.3 7.5	16.2 16.2	27 11.5	5.4 4.4
Notholca acuminata	0 0	0 0	0 0	0 0	0 0	0 0	0 0	.6 1.2	0 0	0 0	0 0
Trichocerca sp.	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	1.2 0	0 0	0 0
Total	10.9 7.9	0 0	0 0	0 0	23.1 96.6	4 7.8	2.2 0	9.9 8.7	67.8 94.2	32.2 21.5	6.2 4.8
Average total Rotifera	9.4	0	0	0	59.85	5.9	1.1	9.3	81	26.85	5.5

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-20-88	1-30-89	5-8-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
	Site 4, Devils Lake, Main Bay										
Amphipoda											
Gammarus lacustris	0.0 --	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	<0.1 0	0.0 0	0.0 0	<0.1 <.1
Total	0 --	0 0	0 0	0 0	0 0	0 0	0 0	<.1 0	0 0	0 0	<.1 <.1
Average total Amphipoda	0	0	0	0	0	0	0	<.1	0	0	<.1
Cladocera											
Alona sp.	0.0 --	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 <.1
Cladoceran juvenile	0 --	0 0	0 0	0 0	0 0	0 0	0 0	.2 0	2 1.6	.4 1.2	0 .1
Ceriodaphnia quadrangula	6.1 --	0 0	0 0	0 0	33.5 156.4	0 0	0 0	0 0	31.2 35.2	12.4 12.4	<.1 .2
Chydorus sphaericus	9.3 --	0 0	0 0	0 .1	59.2 167.5	.8 .3	0 0	0 0	37.2 35.6	24 23.6	.3 .3
Daphnia pulex	59.9 --	2 1.8	1 .1	2.5 2.9	.1 1	<.1 .5	.2 <.1	4.2 2.4	9.2 14	16.4 8.8	.6 1.5
Diaphanosoma birgei	2 --	0 0	0 0	0 0	0 0	.1 .2	0 0	0 0	39.2 48.8	15.6 12.8	.1 .3

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-20-88	1-30-89	5-8-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
	Site 4, Devils Lake, Main Bay--Continued										
Cladocera--Continued											
Diaphanosoma	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
leuchtenbergiannum	--	0	0	0	.4	0	0	0	0	0	0
Total	77.3	2	1	2.5	93	.95	.2	4.4	118.8	68.8	1.05
	--	1.8	.1	3	325.3	1	<.1	2.4	135.2	58.8	2.45
Average total Cladocera	77.3	1.9	.55	2.75	209.15	.975	.125	3.4	127	63.8	1.75
Total small Cladocera (avg. lgth. < 0.7 mm)	17.4	0	0	0	92.9	.9	0	.2	109.6	52.4	.45
	--	0	0	.1	324.3	.5	0	0	121.2	50	.95
Average total small Cladocera	17.4	0	0	<.1	208.6	.7	0	.1	115.4	51.2	.7
Total large Cladocera (avg. lgth. > 0.7 mm)	59.9	2	1	2.5	.1	<.1	.2	4.2	9.2	16.4	.6
	--	1.8	.1	2.9	1	.5	<.1	2.4	14	8.8	1.5
Average total large Cladocera	59.9	1.9	.55	2.7	.55	.275	.125	3.3	11.6	12.6	1.05
Copepoda											
Acanthocyclops robustus	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
female	--	0	0	0	0	0	0	0	0	0	0
Acanthocyclops vernalis	0	0	0	0	0	0	0	0	0	0	.1
female	--	0	0	0	0	0	0	0	0	0	<.1
Acanthocyclops vernalis	0	0	0	0	0	0	0	0	0	0	<.1
male	--	0	0	0	0	0	0	0	0	0	<.1

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-20-88	1-30-89	5-8-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
	Site 4, Devils Lake, Main Bay--Continued										
Copepoda--Continued											
Acanthocyclops vernalis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
egg	--	0	0	0	0	0	0	0	0	0	.3
Calanoid juvenile	0	0	0	4.6	67	4	14	18.2	66	44.4	7.9
	--	0	0	65.5	44.6	6.1	16.2	27.6	67.2	39.6	10.3
Calanoid nauplii	0	.3	0	6.9	0	18.8	1	72.6	20.8	9.2	1.8
	--	.3	0	47.9	22.3	9.2	.6	74.8	29.2	12	2
Calanoid egg	0	0	0	0	7.6	0	0	0	8	0	0
	--	0	0	2	0	0	0	0	6.4	0	0
Copepod juvenile	0	0	6	0	0	0	0	0	0	0	0
	--	0	.3	0	0	0	0	0	0	0	0
Copepod nauplii	0	0	53.2	0	0	0	0	0	0	0	0
	--	0	9.6	0	0	0	0	0	0	0	0
Copepod egg	0	0	15.6	0	0	0	0	0	0	0	0
	--	0	.3	0	0	0	0	0	0	0	0
Cyclopoid juvenile	0	0	0	0	0	1.2	<.1	0	4	2	.5
	--	0	0	0	0	.7	<.1	0	2.8	2	.6
Cyclopoid nauplii	9.7	0	0	0	0	1	1	13.8	56	71.6	23.2
	--	0	0	0	0	1.4	.6	12	61.2	86.8	41.4
Diacyclops thomasi	.8	0	0	0	0	0	0	0	.4	.1	0
male	--	0	0	0	0	0	0	0	.8	.1	0
Diacyclops thomasi	0	0	0	0	0	0	0	0	.8	.2	0
female	--	0	0	0	0	0	0	0	1.6	.2	0

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-20-88	1-30-89	5-8-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
	Site 4, Devils Lake, Main Bay--Continued										
Copepoda--Continued											
Diacyclops thomasi egg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0
	--	0	0	0	0	0	0	0	38.4	2.4	0
Diacyclops navus male	0	0	0	0	0	0	0	0	0	0	0
	--	0	0	0	.1	0	0	0	0	0	0
Diacyclops navus female	0	0	0	0	0	0	0	0	0	0	0
	--	0	0	0	.1	0	0	0	0	0	0
Diaptomus sicilis male	17.4	11	5.2	6.6	51.3	4.8	10.5	5.6	9.2	2.4	3.6
	--	13.8	.6	35.7	13.5	5.3	18.6	3.2	11.2	1.6	5.1
Diaptomus sicilis female	21.1	4.4	5	7.4	42.5	2.9	6	4	8.8	5.2	3.4
	--	20.7	.6	29.9	10.3	3.7	10.8	1.8	7.6	2.4	4.1
Diaptomus sicilis juvenile	32.4	12.8	0	0	0	0	0	0	0	0	0
	--	31.5	0	0	0	0	0	0	0	0	0
Diaptomus sicilis egg	0	0	0	2.8	0	.1	36.5	18.4	8.8	.8	.9
	--	0	0	0	0	.2	27.6	13	5.2	.4	.6
Hesperodiaptomus nevadensis male	0	0	0	0	0	0	0	0	0	0	0
	--	0	0	0	0	<.1	0	<.1	<.1	0	0
Hesperodiaptomus nevadensis female	0	0	0	0	0	.1	<.1	<.1	0	0	0
	--	0	0	0	0	<.1	.1	<.1	<.1	0	0
Hesperodiaptomus nevadensis egg	0	0	0	0	0	.1	1.8	.6	0	0	0
	--	0	0	0	0	1.3	1.8	1	0	0	0
Mesocyclops edax female	0	0	0	0	0	0	0	<.1	0	0	0
	--	0	0	0	0	0	0	.1	0	0	0
Total Copepoda adults	39.3	15.4	10.2	14	93.9	7.9	18.35	10.3	19.2	7.9	7.15
	--	34.5	1.2	65.6	24	10.4	31.3	6.2	21.3	4.3	9.3

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-20-88	1-30-89	5-8-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
	Site 4, Devils Lake, Main Bay--Continued										
Copepoda--Continued											
Average total Copepoda adults	39.3	24.95	5.7	39.8	58.95	9.15	24.825	8.25	20.25	6.1	8.225
Total Copepoda juveniles	42.1 --	13.1 31.8	59.2 9.9	11.5 113.4	67 66.9	25 17.4	16.05 17.45	104.6 114.4	146.8 160.4	127.2 140.4	33.4 54.3
Average total Copepoda juveniles	42.1	22.45	34.55	62.45	66.95	21.2	16.75	109.5	153.6	133.8	43.85
Total Copepoda eggs	0 --	0 0	15.6 .3	2.8 2	7.6 0	.2 1.5	38.3 29.4	19 14	16.8 50	6.4 2.8	1.2 .9
Average total Copepoda eggs	0	0	7.95	2.4	3.8	.85	33.85	16.5	33.4	4.6	1.05
Total Calanoid Copepods (juveniles plus adults)	70.9 --	28.5 66.3	10.2 1.2	28.3 179	160.8 90.7	30.8 25.9	69.85 75.7	119.45 121.5	113.6 120.5	62 56	17.6 22.1
Average total Calanoid Copepods	70.9	47.4	5.7	103.65	125.75	28.35	72.775	120.475	117.05	59	19.85
Total Cyclopoid Copepods	10.5 --	0 0	0 0	0 0	.1 .2	2.2 2.1	1.05 .65	13.85 12.1	61.2 66.4	73.9 89.1	23.8 42.05
Average total Cyclopoid Copepods	10.5	0	0	0	.15	2.15	.85	12.975	63.8	81.5	32.925
Rotifera											
Brachionus havanaensis	0.0 N	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	1.2 0	0.0 0
Brachionus satanicus	0 N	0 0	0 0	0 0	0 0	0 0	0 0	0 0	2.4 5.2	0 0	0 0

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-20-88	1-30-89	5-8-89	6-21-89	8-15-89	10-25-89	2-6-90	5-9-90	8-7-90	9-11-90	10-24-90
					Site 4, Devils Lake, Main Bay--Continued						
Rotifera--Continued											
Brachionus urceolaris	0.0 --	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 .2	0.0 0	0.0 0	0.0 0
Epiphanes sp.	0 --	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	.2 .4	0 0
Filinia longiseta	.4 --	0 0	0 0	0 0	0 0	2 1.2	0 0	0 0	23.2 30.8	.8 1.2	.6 1.8
Keratella cochlearis	.4 --	0 0	0 0	0 0	0 0	.8 .6	0 0	0 0	0 0	.2 0	0 0
Keratella quadrata	1.2 --	1 1	0 0	.1 0	0 .5	2.4 2.6	6.5 4.2	8.4 8.8	5.6 13.6	9.6 9.2	2.9 4.7
Trichocerca sp.	0 --	0 0	0 0	0 0	0 0	0 0	0 0	0 0	.8 0	0 0	0 0
Total	2 --	1 1	.2 0	.1 0	0 .5	5.2 4.4	6.5 4.2	8.4 9	32 49.6	12.2 10.8	3.5 6.5
Average total Rotifera	2	1	.1	.05	.25	4.8	5.35	8.7	40.8	11.5	5

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-22-89	5-8-89	6-21-89	8-15-89	10-26-89	2-6-90	5-8-90	8-7-90	9-11-90	10-24-90
	Site 5, Devils Lake, Mission Bay										
Amphipoda											
Gammarus lacustris	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	<0.1 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 <.1
Hyallela azteca	0 0	0 0	0 0	0 0	.2 0	0 0	0 0	0 0	0 0	0 <.1	0 0
Total	0 0	0 0	0 0	0 0	.2 0	<.1 0	0 0	0 0	0 0	0 <.1	0 <.1
Average total Amphipoda	0	0	0	0	.1	<.1	0	0	0	<.1	<.1
Cladocera											
Cladoceran juvenile	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.6 .2	4.2 3	1 4.2	<0.1 .1
Ceriodaphnia quadrangula	2.7 11.5	0 0	0 0	0 0	81.8 53.6	0 0	0 0	0 0	1.8 3.6	11.5 12	<.1 <.1
Chydorus sphaericus	30.6 60.8	0 0	0 0	0 .3	25.6 14.8	.1 1	0 0	0 .2	5.4 4.2	25 34.8	3.6 5.7
Daphnia pulex	29.9 53.5	0 .1	6.2 2	3.7 6.7	2.5 2.1	1.8 2	.3 0	13.8 11.8	15 9.6	5.5 9	1.2 1.8
Daphnia schodleri	0 0	0 0	1.4 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Diaphonosoma birgei	1.3 .5	0 0	0 0	0 0	0 0	0 0	0 0	0 0	25.2 28.2	18 26.4	<.1 <.1
Total	64.5 126.3	0 .1	7.6 2	3.7 7	109.9 70.5	1.9 3	.3 0	14.4 12.2	51.6 48.6	61 86.4	4.95 7.7

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-22-89	5-8-89	6-21-89	8-15-89	10-26-89	2-6-90	5-8-90	8-7-90	9-11-90	10-24-90
	Site 5, Devils Lake, Mission Bay--Continued										
Cladocera--Continued											
Average total Cladocera	95.4	<0.1	4.8	5.35	90.2	2.45	0.15	13.3	50.1	73.7	6.325
Total small Cladocera	34.6	0	0	0	107.4	.1	0	.6	36.6	55.5	3.75
(avg. lgth. < 0.7 mm)	72.8	0	0	.3	68.4	1	0	.4	39	77.4	5.9
Average total small Cladocera	53.7	0	0	.15	87.9	.55	0	.5	37.8	66.45	4.825
Total large Cladocera	29.9	0	7.6	3.7	2.5	1.8	.3	13.8	15	5.5	1.2
(avg. lgth. > 0.7 mm)	53.5	.1	2	6.7	2.1	2	0	11.8	9.6	9	1.8
Average total large Cladocera	41.7	<.1	4.8	5.2	2.3	1.9	.15	12.8	12.3	7.25	1.5
Copepoda											
Acanthocyclops vernalis	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0	0	0	0	0	0	0	0	0	0	0
Acanthocyclops vernalis	0	0	0	0	0	0	0	0	0	0	.1
female	0	0	0	0	0	0	0	0	0	0	.1
Acanthocyclops vernalis	0	0	0	0	0	0	0	0	0	0	0
male	0	0	0	0	0	0	0	0	0	0	.1
Calanoid juvenile	0	29	0	3.8	297.8	5	2.4	11.2	117.6	51.5	37.5
	0	9.4	0	60.9	378.9	6.4	3.6	0	97.8	66.6	43.8
Calanoid nauplii	0	2.2	0	3.8	74.4	2	0	39.6	50.4	15	4.8
	0	.1	0	79.8	53	1.8	0	34.4	52.2	11.4	4.8
Calanoid egg	0	0	0	0	334.9	0	0	0	29.4	1.5	0
	0	0	0	6.7	145.7	0	0	0	19.2	1.2	0

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-22-89	5-8-89	6-21-89	8-15-89	10-26-89	2-6-90	5-8-90	8-7-90	9-11-90	10-24-90
Site 5, Devils Lake, Mission Bay--Continued											
Copepoda--Continued											
Copepod juvenile	0.0 0	0.0 0	7.4 1.5	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0
Copepod nauplii	0 0	0 0	54.6 15.7	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Copepod egg	0 0	0 0	36.6 2.3	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Cyclopoid juvenile	1.3 0	0 0	0 0	0 0	0 0	.4 .6	0 .3	0 6.8	4.2 6	3.5 3.6	1.5 .3
Cyclopoid nauplii	55.2 37	0 0	0 0	0 0	0 0	.4 .8	1.5 4.5	2.6 7.6	23.4 15	49 58.8	32.1 33
Cyclopoid egg	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 10.8	0 0	0 0
Diacyclops thomasi male	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	3.6 1.8	.2 .2	0 0
Diacyclops thomasi female	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	2.4 .6	.9 .6	0 0
Diacyclops thomasi egg	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	56.4 0	15.6 16.8	0 0
Diaptomus sicilis male	12.6 15.6	7.5 11.2	1 4.9	8.9 34.2	130.2 132.5	10 12.2	6.6 7.2	1.8 1.8	10.8 12.6	6 5.4	14.4 15.3
Diaptomus sicilis female	8 8.4	6 14.9	2.8 3.2	10.3 43.8	111.6 148.8	8.4 9.6	3.6 2.7	.8 1.2	11.4 16.8	10.5 7.8	13.2 13.2

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-22-89	5-8-89	6-21-89	8-15-89	10-26-89	2-6-90	5-8-90	8-7-90	9-11-90	10-24-90
	Site 5, Devils Lake, Mission Bay--Continued										
Copepoda--Continued											
Diaptomus sicilis	59.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
juvenile	38.7	0	0	0	0	0	0	0	0	0	0
Diaptomus sicilis egg	0	22.3	0	2.9	0	1.1	16.8	8.8	7.8	6	.5
	0	17.6	0	0	0	.2	12.6	5.4	18	2.4	2
Hesperodiaptomus	0	1.2	0	.1	0	0	0	<.1	0	0	<.1
nevadensis male	0	1	0	0	.4	.1	0	<.1	0	0	<.1
Hesperodiaptomus	0	.7	0	.9	.2	.2	0	<.1	0	0	<.1
nevadensis female	0	.4	0	0	.6	.1	0	<.1	0	0	<.1
Hesperodiaptomus	0	7.9	0	0	0	9.3	0	.6	0	0	1.2
nevadensis egg	0	6	0	0	0	13.6	0	0	0	0	2.1
Mesocyclops edax	.7	0	0	0	0	0	0	0	0	0	0
female	0	0	0	0	0	0	0	0	0	0	0
Total Copepoda adults	22	23.3	3.8	20.2	242	27.9	10.2	3.3	28.2	17.6	29
	24	33.5	8.1	78	282.3	35.6	9.9	3.1	31.8	14	30.9
Average total Copepoda adults	23	28.4	5.95	49.1	262.15	31.75	10.05	3.2	30	15.8	29.95
Total Copepoda juveniles	115.7	31.2	62	7.6	372.2	7.8	3.9	53.4	195.6	119	75.9
	75.7	9.5	17.2	140.7	431.9	9.6	8.4	48.8	171	140.4	81.9
Average total Copepoda juveniles	95.7	20.35	39.6	74.15	402.05	8.7	6.15	51.1	183.3	129.7	78.9
Total Copepoda eggs	0	30.2	36.6	2.9	334.9	10.4	16.8	9.4	93.6	23.1	1.7
	0	23.6	2.3	6.7	145.7	13.8	12.6	5.4	48	20.4	4.1
Average total Copepoda eggs	0	26.9	19.45	4.8	240.3	12.1	14.7	7.4	70.8	21.75	2.9

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-22-89	5-8-89	6-21-89	8-15-89	10-26-89	2-6-90	5-8-90	8-7-90	9-11-90	10-24-90
	Site 5, Devils Lake, Mission Bay--Continued										
Copepoda--Continued											
Total Calanoid	79.8	76.8	3.8	30.7	614.2	36	29.4	62.9	198	89	71.7
Copepods (juveniles plus adults)	62.7	60.6	8.1	218.7	714.2	44	26.1	42.9	197.4	93.6	81.3
Average total Calanoid Copepods	71.25	68.7	5.95	124.7	664.2	40	27.75	52.9	197.7	91.3	76.5
Total Cyclopoid	57.9	0	0	0	0	.8	1.5	2.6	33.6	53.6	33.7
Copepods	37	0	0	0	0	1.4	4.8	14.4	23.4	63.2	33.4
Average total Cyclopoid Copepods	47.45	0	0	0	0	1.1	3.15	8.5	28.5	58.4	33.55
Rotifera											
Asplancha sp.	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.6	0.0	0.0
	0	0	0	0	0	0	0	0	0	0	0
Brachionus havanaensis	0	0	0	0	0	0	0	0	.6	0	0
	0	0	0	0	0	0	0	0	0	0	0
Brachionus satanicus	0	0	0	0	0	0	0	0	13.2	0	0
	0	0	0	0	0	0	0	0	10.2	0	0
Epiphanes sp.	0	0	0	0	0	0	3	0	0	0	0
	0	0	0	0	0	0	2.4	0	0	0	0
Filinia longiseta	4	0	0	0	.2	.4	0	0	46.8	85	9.3
	0	0	0	0	0	.2	0	0	45	105	5.7
Keratella cochlearis	.7	0	0	0	0	.4	0	0	0	0	0
	0	0	0	0	0	.2	0	0	0	0	0
Keratella quadrata	8	1	0	0	37.2	4	0	1.6	3	11	8.1
	1.5	.7	0	0	21.6	10.8	.3	2	5.4	8.4	5.1

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-22-89	5-8-89	6-21-89	8-15-89	10-26-89	2-6-90	5-8-90	8-7-90	9-11-90	10-24-90
	Site 5, Devils Lake, Mission Bay--Continued										
Rotifera--Continued											
Lecane sp.	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	<0.1 0	0.0 0
Notholca acuminata	0 0	0 0	0 0	0 0	0 0	0 0	0 0	.2 .2	0 0	0 0	0 0
Trichocerca sp.	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	.6 .6	.3 .3	0 0
Total	12.7 1.5	1 .7	0 0	0 0	37.6 21.6	4.8 11.2	3 2.7	1.8 2.2	64.8 61.2	96.8 113.7	17.4 10.8
Average total Rotifera	7.1	.85	0	0	29.6	8	2.85	2	63	105.25	14.1

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-20-89	8-15-89	10-26-89	2-7-90	5-8-90	8-8-90	9-12-90	10-25-90
	Site 6, Devils Lake, East Bay west										
Amphipoda											
Gammarus lacustris	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	<0.1 0	0.0 0	0.0 0	0.1 .1
Hyallela azteca	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 <.1	0 <.1	0 0	0 0
Total	0 0	0 0	0 0	0 0	0 0	0 0	0 0	<.1 <.1	0 <.1	0 0	.1 .1
Average total Amphipoda	0	0	0	0	0	0	0	<.1	<.1	0	.1
Cladocera											
Cladoceran juvenile	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.2 1.2	0.0 0	0.8 1.8	0.1 .1
Ceriodaphnia quadrangula	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	<.1 0	0 0
Chydorus sphaericus	3.7 4.6	0 0	0 0	0 0	7 9.5	.1 .4	0 0	0 0	.1 .1	4 1.8	.2 .6
Daphnia pulex	15.7 37.4	.4 .2	1.7 .3	1.9 .1	7.5 7.6	3.9 2.8	2.2 1.8	8.8 14.6	18.2 14.7	7.6 6.3	.6 0
Diaphanosoma birgei	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	<.1 <.1	.1 .1	0 0
Total	19.4 42	.4 .2	1.7 .3	1.9 .1	14.5 17.1	4 3.2	2.2 1.8	9 15.8	18.35 14.85	12.55 10	.9 .7
Average total Cladocera	30.7	.3	1	1	15.8	3.6	2	12.4	16.6	11.275	.8

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-20-89	8-15-89	10-26-89	2-7-90	5-8-90	8-8-90	9-12-90	10-25-90
	Site 6, Devils Lake, East Bay west--Continued										
Cladocera--Continued											
Total small Cladocera	3.7	0.0	0.0	0.0	7.0	0.1	0.0	0.2	0.15	4.95	0.3
(avg. lgth. < 0.7 mm)	4.6	0	0	0	9.5	.4	0	1.2	.15	3.7	.7
Average total small Cladocera	4.15	0	0	0	8.25	.25	0	.7	.15	4.325	.5
Total large Cladocera	15.7	.4	1.7	1.9	7.5	3.9	2.2	8.8	18.2	7.6	.6
(avg. lgth. > 0.7 mm)	37.4	.2	.3	.1	7.6	2.8	1.8	14.6	14.7	6.3	0
Average total large Cladocera	26.55	.3	1	1	7.55	3.35	2	11.7	16.45	6.95	.3
Copepoda											
Calanoid juvenile	0.0	2.3	0.0	14.4	223.3	0.8	1.2	2.6	116.9	54.8	16
	0	.4	0	2	118.1	2.2	1.6	3.4	117.6	41.7	11
Calanoid nauplii	0	.1	0	11.2	37.2	1.8	0	17.8	59.5	28.8	1.8
	0	.1	0	6.4	23.6	.8	0	17.8	54.6	21.9	1.6
Calanoid egg	0	0	0	0	89.4	0	0	0	39.9	2	0
	0	0	0	4.9	0	0	0	0	25.9	.6	0
Copepod juvenile	0	0	21.8	0	0	0	0	0	0	0	0
	0	0	7	0	0	0	0	0	0	0	0
Copepod nauplii	0	0	38.1	0	0	0	0	0	0	0	0
	0	0	20.6	0	0	0	0	0	0	0	0
Copepod egg	0	0	18	0	0	0	0	0	0	0	0
	0	0	36.5	0	0	0	0	0	0	0	0

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-20-89	8-15-89	10-26-89	2-7-90	5-8-90	8-8-90	9-12-90	10-25-90
	Site 6, Devils Lake, East Bay west--Continued										
Copepoda--Continued											
Cyclopoid juvenile	<0.1 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 .4	<0.1 0	<0.1 <.1	0.7 2.1	7.6 2.1	0.6 1
Cyclopoid nauplii	77.8 12.8	0 0	0 0	0 0	0 0	.3 .4	.4 .1	3.8 5.6	20.3 23.8	35.2 28.5	6.8 6.6
Cyclopoid egg	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	.3 0	0 0	0 0
Diacyclops thomasi male	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	.1 .1	.2 .1	0 0
Diacyclops thomasi female	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	.2 .3	.1 .1	0 0
Diacyclops thomasi egg	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	3.9 7.9	.8 .3	0 0
Diaptomus sicilis male	1.4 8	4.4 1.2	5.4 16	22.3 12.5	59.6 32.8	2.4 3.6	1.6 1.6	1.6 .8	11.2 7.7	4.8 2.1	4.6 3.8
Diaptomus sicilis female	1.4 8.7	1.9 1.4	7.6 12.2	24 13.6	49.6 34.5	2.2 3	.2 .9	1.8 2	12.6 16.1	5.2 5.1	5 4.8
Diaptomus sicilis juvenile	15.7 10.8	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Diaptomus sicilis egg	0 0	5.1 3.8	0 0	6.5 0	0 0	0 0	1.4 .8	29.8 46.8	14.7 35.7	4.8 4.8	.1 0
Hesperodiaptomus nevadensis male	0 0	0 0	0 0	0 .1	0 .8	0 .1	.4 .2	.1 .1	.1 <.1	.3 .1	<.1 <.1

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-20-89	8-15-89	10-26-89	2-7-90	5-8-90	8-8-90	9-12-90	10-25-90
	Site 6, Devils Lake, East Bay west--Continued										
Copepoda--Continued											
Hesperodiaptomus	0.0	0.0	0.0	1.9	0.8	0.8	0.2	<0.1	0.1	0.4	0.1
nevadensis female	0	.1	0	.1	.7	.1	.3	<.1	.1	.3	.2
Hesperodiaptomus	0	0	0	0	0	5.5	15	0	0	0	3.8
nevadensis egg	0	0	0	0	0	3.9	6.2	0	0	0	5.5
Hesperodiaptomus sp.	0	0	.6	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
Total Copepoda adults	2.8	6.3	13	48.2	110	10.9	17.4	3.55	24.3	11	13.55
	16.7	2.7	28.2	26.3	68.8	10.7	9.2	2.95	24.35	7.8	14.35
Average total Copepoda adults	9.75	4.5	20.6	37.25	89.4	10.8	13.3	3.25	24.325	9.4	13.95
Total Copepoda juveniles	94	2.4	59.9	25.6	260.5	2.9	1.65	24.25	197.4	126.4	25.2
	23.6	.5	27.6	8.4	141.7	3.8	1.7	26.85	198.1	94.2	20.2
Average total Copepoda juveniles	58.8	1.45	43.75	17	201.1	3.35	1.675	25.55	197.75	110.3	22.7
Total Copepoda eggs	0	5.1	18	6.5	89.4	5.5	16.4	29.8	58.8	7.6	3.9
	0	3.8	36.5	4.9	0	3.9	7	46.8	69.5	5.7	5.5
Average total Copepoda eggs	0	4.45	27.25	5.7	44.7	4.7	11.7	38.3	64.15	6.65	4.7
Total Calanoid Copepods (juveniles plus adults)	18.5	13.8	13.6	80.3	370.5	13.5	20	53.75	215.1	99.1	31.45
	27.5	7	28.2	34.7	210.5	13.7	11.6	70.95	231.85	76	26.95
Average total Calanoid Copepods	23	10.4	20.9	57.5	290.5	13.6	15.8	62.35	223.475	87.55	29.2

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-20-89	8-15-89	10-26-89	2-7-90	5-8-90	8-8-90	9-12-90	10-25-90
	Site 6, Devils Lake, East Bay west--Continued										
Copepoda--Continued											
Total Cyclopoid Copepods	78.3 12.8	0.0 0	0.0 0	0.0 0	0.0 0	0.3 .8	0.45 .1	3.85 5.65	21.3 26.3	43.1 30.8	7.4 7.6
Average total Cyclopoid Copepods	45.55	0	0	0	0	.55	.275	4.75	23.8	36.95	7.5
Rotifera											
Asplancha sp.	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.1 <.1	0.0 0	0.0 0
Brachionus havanaensis	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 .4	0 0	0 0
Brachionus quadridentatus	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 .4	0 0	0 0
Brachionus satanicus	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	149.1 141.4	0 0	0 0
Epiphanes sp.	0 0	0 0	0 0	0 0	0 0	0 0	1.6 .2	0 0	0 0	<.1 0	.2 <.1
Filinia longiseta	1.4 1	0 0	0 0	0 0	0 0	.3 <.1	0 0	0 0	162.4 184.8	10 4.5	3.8 4.8
Keratella cochlearis	0 0	0 0	.2 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Keratella quadrata	1.8 0	0 0	0 0	0 0	0 0	1.2 .4	0 0	<.1 .2	0 .4	.4 .3	.2 .4
Lepadella sp.	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	.2 0

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-20-89	8-15-89	10-26-89	2-7-90	5-8-90	8-8-90	9-12-90	10-25-90
	Site 6, Devils Lake, East Bay west--Continued										
Rotifera--Continued											
Notommatid rotifer sp.	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	1.2 .3	0.0 0
Trichocerca sp.	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 .7	0 0	0 0
Total	3.2 1	0 0	.4 0	0 0	0 0	1.5 .45	1.6 .2	<.1 .2	311.6 328.15	11.65 5.1	4.4 5.25
Average total Rotifera	2.1	0	.2	0	0	.975	.9	.125	319.875	8.375	4.825

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-20-89	8-15-89	10-26-89	2-7-90	5-8-90	8-8-90	9-12-90	10-25-90
					Site 7, Devils Lake, East Bay east						
Amphipoda											
Gammarus lacustris	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 <.1	0.0 0	0.0 0	0.0 0	0.0 0	<0.1 <.1
Hyallela azteca	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 <.1	0 <.1	0 <.1	0 0
Total	0 0	0 0	0 0	0 0	0 0	0 <.1	0 0	0 <.1	0 <.1	0 <.1	<.1 <.1
Average total Amphipoda	0	0	0	0	0	<.1	0	<.1	<.1	<.1	<.1
Cladocera											
Cladoceran juvenile	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	2.1 1.8	0.0 .3	1.8 2.4	<0.1 <.1
Ceriodaphnia quadrangula	.3 .5	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Chydorus sphaericus	12.8 17	0 0	0 0	0 0	0 0	0 0	0 0	0 0	<.1 0	1.5 .6	.1 .1
Daphnia pulex	31.4 39.8	3.6 1.5	.3 .1	.3 .9	28 6.8	1.2 1.2	1 .2	4.6 6.5	10.8 28	36.6 37.8	.4 .2
Daphnia similis	.3 0	0 0	0 0	0 0	8.6 0	0 0	0 0	0 0	0 0	0 0	0 0
Total	44.8 57.3	3.6 1.5	.3 .1	.3 .9	36.6 6.8	1.2 1.2	1 .2	6.7 8.3	10.85 28.3	39.9 40.8	.55 .35
Average total Cladocera	51.05	2.55	.2	.6	21.7	1.2	.6	7.5	19.575	40.35	.45

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-20-89	8-15-89	10-26-89	2-7-90	5-8-90	8-8-90	9-12-90	10-25-90
	Site 7, Devils Lake, East Bay east--Continued										
Cladocera--Continued											
Total small Cladocera	13.1	0.0	0.0	0.0	0.0	0.0	0.0	2.1	<0.1	3.3	0.15
(avg. lgth. < 0.7 mm)	17.5	0	0	0	0	0	0	1.8	.3	3	.15
Average total small Cladocera	15.3	0	0	0	0	0	0	1.95	.175	3.15	.15
Total large Cladocera	31.7	3.6	.3	.3	36.6	1.2	1	4.6	10.8	36.6	.4
(avg. lgth. > 0.7 mm)	39.8	1.5	.1	.9	6.8	1.2	.2	6.5	28	37.8	.2
Average total large Cladocera	35.75	2.55	.2	.6	21.7	1.2	.6	5.55	19.4	37.2	.3
Copepoda											
Calanoid juvenile	0.0	3.5	0.0	1.7	167	2.4	0.0	1.4	82.8	36	7.2
	0	3.2	0	11.9	136.5	3.2	2.2	1.5	121.1	30.9	9.2
Calanoid nauplii	0	.2	0	1.3	15.1	1.2	0	18.9	19.2	18	1.2
	0	.8	0	17.1	0	.6	0	21.5	23.8	13.8	1
Calanoid egg	0	0	0	0	0	0	0	0	.8	1.2	0
	0	0	0	5.2	196.9	0	0	0	.3	.6	0
Copepod juvenile	0	0	.2	0	0	0	0	0	0	0	0
	0	0	.3	0	0	0	0	0	0	0	0
Copepod nauplii	0	0	13.1	0	0	0	0	0	0	0	0
	0	0	3.2	0	0	0	0	0	0	0	0
Copepod egg	0	0	6.8	0	0	0	0	0	0	0	0
	0	0	1.7	0	0	0	0	0	0	0	0
Cyclopoid juvenile	.3	0	0	0	0	.6	1.4	.2	2.4	5.1	.6
	.3	0	0	0	0	1.4	<.1	<.1	.9	4.2	.8

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-20-89	8-15-89	10-26-89	2-7-90	5-8-90	8-8-90	9-12-90	10-25-90
	Site 7, Devils Lake, East Bay east--Continued										
Copepoda--Continued											
Cyclopoid nauplii	31.4 8.8	0.0 0	0.0 0	0.0 0	0.0 0	0.0 <.1	0.8 .6	6 6.5	17.4 10.5	35.7 38.4	10 10
Cyclopoid egg	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	1.2 0	0 0	0 0
Diacyclops thomasi male	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	.1 1.2	.3 .2	<.1 0
Diacyclops thomasi female	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	.2 .6	.1 .1	0 0
Diacyclops thomasi egg	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	5.6 5	3.7 3.5	0 0
Diaptomus sicilis male	.7 1	5.3 1.3	.4 .9	2.6 19.1	1.4 1.2	5.2 6.6	3.5 5.8	2.1 1	5.4 3.5	1.5 2.7	8 11
Diaptomus sicilis female	3.8 13	3.9 1.7	.7 1.2	2.4 16	1.4 1.2	5.6 5	2.7 7	2.1 1.8	4.8 4.9	7.5 7.2	8.2 13.6
Diaptomus sicilis juvenile	17.3 2.9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Diaptomus sicilis egg	0 0	0 0	0 0	1 0	0 0	.4 .8	8.4 18.2	15.6 39.8	2.5 2.1	4.8 1.8	.3 <.1
Hesperodiaptomus nevadensis	0 0	0 0	0 .3	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Hesperodiaptomus nevadensis male	0 0	1 1	0 0	0 0	0 0	0 .2	.1 .4	<.1 .1	.1 .1	.1 <.1	.1 .1

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-20-89	8-15-89	10-26-89	2-7-90	5-8-90	8-8-90	9-12-90	10-25-90
	Site 7, Devils Lake, East Bay east--Continued										
Copepoda--Continued											
Hesperodiaptomus	0.0	0.7	0.0	0.1	0.0	<0.1	0.3	0.1	<0.1	<0.1	0.1
nevadensis female	0	0	0	0	.3	.2	.4	<.1	.1	.1	.1
Hesperodiaptomus	0	0	0	0	0	1.3	12.2	1	0	0	3.7
nevadensis egg	0	.1	0	0	0	3.6	6.8	0	0	0	3.6
Hesperodiaptomus sp.	0	0	.3	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
Total Copepoda adults	4.5	10.9	1.1	5.1	2.8	12.6	18.8	5.35	10.65	9.55	20.15
	14	4.1	2.4	35.1	2.7	15.6	20.4	2.95	10.4	10.35	28.4
Average total Copepoda adults	9.25	7.5	1.75	20.1	2.75	14.1	19.6	4.15	10.525	9.95	24.275
Total Copepoda juveniles	49	3.7	13.3	3	182.1	4.2	2.2	26.5	121.8	94.8	19
	12	4	3.5	29	136.5	5.25	2.85	29.55	156.3	87.3	21
Average total Copepoda juveniles	30.5	3.85	8.4	16	159.3	4.725	2.525	28.025	139.05	91.05	20
Total Copepoda eggs	0	0	6.8	1	0	1.7	20.6	16.6	10.1	9.7	4
	0	.1	1.7	5.2	196.9	4.4	25	39.8	7.4	5.9	3.65
Average total Copepoda eggs	0	<.1	4.25	3.1	98.45	3.05	22.8	28.2	8.75	7.8	3.825
Total Calanoid Copepods (juveniles plus adults)	21.8	14.6	1.4	9.1	184.9	16.6	27.2	41.25	114.85	67.95	28.8
	16.9	8.1	2.4	64.1	139.2	20.2	40.8	65.75	155.6	56.55	38.65
Average total Calanoid Copepods	19.35	11.35	1.9	36.6	162.05	18.4	34	53.5	135.225	62.25	33.725

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date										
	9-21-88	2-23-89	5-9-89	6-20-89	8-15-89	10-26-89	2-7-90	5-8-90	8-8-90	9-12-90	10-25-90
	Site 7, Devils Lake, East Bay east--Continued										
Copepoda--Continued											
Total Cyclopoid Copepods	31.7 9.1	0.0 0	0.0 0	0.0 0	0.0 0	0.6 1.45	2.2 .65	6.2 6.55	20.1 13.2	41.2 42.9	10.65 10.8
Average total Cyclopoid Copepods	20.4	0	0	0	0	1.025	1.425	6.375	16.65	42.05	10.725
Rotifera											
Asplancha sp.	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	1.1 1.1	0.0 0	0.0 0
Brachionus quadridentatus	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	.3 0	0 0
Brachionus satanicus	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	257.4 291.2	0 0	0 0
Epiphanes sp.	3.1 0	0 0	0 0	0 0	0 0	.3 0	0 0	0 0	0 0	0 0	0 0
Filinia longiseta	.3 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	55.2 61.6	2.1 3	2.4 3.8
Keratella quadrata	.3 0	0 .1	0 0	0 0	0 0	0 0	.1 0	0 0	0 0	0 0	0 .2
Notommatid rotifer sp.	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	3.3 1.8	0 0
Total	3.7 0	0 .1	0 0	0 0	0 0	.3 0	.1 0	0 0	313.7 353.9	5.7 4.8	2.4 4
Average total Rotifera	1.85	<.1	0	0	0	.15	<.1	0	333.8	5.25	3.2

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date						
	9-21-88	2-22-89	5-9-89	6-21-89	8-15-89	10-26-89	2-7-90
	Site 8, East Devils Lake inlet						
Amphipoda							
Gammarus lacustris	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	<0.1 .5	0.0 0
Hyallela azteca	0 0	0 0	0 0	0 .1	.6 .6	0 0	0 0
Total Amphipoda sp.	0 0	0 0	0 0	0 .1	.6 .6	<.1 .5	0 0
Average total Amphipoda	0	0	0	<.1	.6	.275	0
Cladocera							
Ceriodaphnia quadrangula	<0.1 0	1.7 1.4	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0
Chydorus sphaericus	1 3	.1 0	0 0	0 0	0 0	.4 0	0 0
Daphnia pulex	11.1 29.4	0 0	0 .1	0 0	0 0	1.1 .5	0 0
Daphnia similis	16.4 18	0 0	.2 .6	20 22.3	8.1 8.1	0 0	0 0
Diaphonosoma birgei	0 0	.1 0	0 0	0 0	0 0	0 0	0 0
Total	29 50.4	1.9 1.4	.2 .7	20 22.3	8.1 8.1	1.5 .5	0 0
Average total Cladocera	39.7	1.65	.45	21.15	8.1	1	0

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date						
	9-21-88	2-22-89	5-9-89	6-21-89	8-15-89	10-26-89	2-7-90
			Site 8, East Devils Lake inlet--Continued				
Cladocera--Continued							
Total small Cladocera (avg. lgth. < 0.7 mm)	1.5 3	1.9 1.4	0.0 0	0.0 0	0.0 0	0.4 0	0.0 0
Average total small Cladocera	2.25	1.65	0	0	0	.2	0
Total large Cladocera (avg. lgth. > 0.7 mm)	27.5 47.4	0 0	.2 .7	20 22.3	8.1 8.1	1.1 .5	0 0
Average total large Cladocera	37.45	0	.45	21.15	8.1	.8	0
Copepoda							
Calanoid juvenile	0.0 0	0.2 .1	0.0 0	4.7 .1	3.8 11.9	0.5 1	0.3 .3
Calanoid nauplii	0 0	0 0	0 0	3.7 44.7	0 0	0 1	0 0
Calanoid egg	0 0	0 0	0 0	0 111.9	0 0	0 0	0 0
Copepod juvenile	0 0	0 0	58.4 44.7	0 0	0 0	0 0	0 0
Copepod nauplii	0 0	0 0	70 13.3	0 0	0 0	0 0	0 0
Copepod egg	0 0	0 0	28.7 29.9	0 0	0 0	0 0	0 0
Cyclopoid nauplii	24.7 24.7	.1 0	0 0	0 0	0 0	0 0	0 0

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date						
	9-21-88	2-22-89	5-9-89	6-21-89	8-15-89	10-26-89	2-7-90
	Site 8, East Devils Lake inlet--Continued						
Copepoda--Continued							
Diacyclops navus female	0.0 0	0.0 0	0.0 0	0.0 .1	0.0 0	0.0 0	0.0 0
Diaptomus sicilis male	15 27	.1 .2	.9 .6	7.4 25.5	10.4 17.4	5 7	3.9 5.1
Diaptomus sicilis female	7.3 11.5	.3 .3	3 1.2	7.9 29.9	10.4 10.3	6 7	4.2 2.4
Diaptomus sicilis juvenile	30.9 20.7	0 0	0 0	0 0	0 0	0 0	0 0
Diaptomus sicilis egg	0 0	0 0	0 0	34.9 0	0 0	32 75.5	12.9 10.8
Hesperodiaptomus nevadensis	.5 0	0 0	0 0	0 0	0 0	0 0	0 0
Hesperodiaptomus nevadensis male	0 0	0 0	0 0	0 0	0 .6	0 .2	0 0
Hesperodiaptomus nevadensis female	0 0	0 0	0 0	1.4 0	1.7 1.1	.7 .1	0 .3
Hesperodiaptomus nevadensis egg	0 0	0 0	0 0	0 0	0 0	12.4 16.6	0 0
Mesocyclops edax female	0 0	.1 0	0 0	0 .1	0 0	0 0	0 0
Mesocyclops edax juvenile	0 0	.1 0	0 0	0 0	0 0	0 0	0 0

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date						
	9-21-88	2-22-89	5-9-89	6-21-89	8-15-89	10-26-89	2-7-90
	Site 8, East Devils Lake inlet--Continued						
Copepoda--Continued							
Mesocyclops edax egg	0.0 0	0.9 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0
Total Copepoda adults	22.8 38.5	.5 .5	3.9 1.8	16.7 55.6	22.5 29.4	24.1 30.9	8.1 7.8
Average total Copepoda adults	30.65	.5	2.85	36.15	25.95	27.5	7.95
Total Copepoda juveniles	55.6 45.4	.4 .1	128.4 58	8.4 44.8	3.8 11.9	.5 2	.3 .3
Average total Copepoda juveniles	50.5	.25	93.2	26.6	7.85	1.25	.3
Total Copepoda eggs	0 0	.9 0	28.7 29.9	34.9 111.9	0 0	44.4 92.1	12.9 10.8
Average total Copepoda eggs	0	.45	29.3	73.4	0	68.25	11.85
Total Calanoid Copepods (juveniles plus adults)	53.7 59.2	.6 .6	3.9 1.8	60 100.2	26.3 41.3	56.6 108.4	21.3 18.9
Average total Calanoid Copepods	56.45	.6	2.85	80.1	33.8	82.5	20.1
Total Cyclopoid Copepods	24.7 24.7	.3 0	0 0	0 .2	0 0	0 0	0 0
Average total Cyclopoid Copepods	24.7	.15	0	.1	0	0	0

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date						
	9-21-88	2-22-89	5-9-89	6-21-89	8-15-89	10-26-89	2-7-90
	Site 8, East Devils Lake inlet--Continued						
Rotifera							
Asplancha sp.	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 <.1	0.0 0
Atrochus tentaculatus	0 0	0 0	0 0	0 0	0 0	0 .5	0 0
Epiphanes sp.	0 0	0 0	0 0	0 0	0 0	0 0	.6 .9
Filinia longiseta	0 1.5	0 0	0 0	0 0	0 0	.8 0	0 0
Keratella quadrata	0 0	1 .9	.1 0	.5 0	0 0	.4 0	.1 0
Notholca acuminata	0 0	0 0	0 0	0 0	0 0	.8 0	0 0
Total	1 2	1 .9	.1 0	.5 0	0 0	2 .55	.7 .9
Average total Rotifera	1.5	.95	<.1	.25	0	1.275	.8

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date 2-7-90	5-9-90	8-8-90
Site 9, Devils Lake, Fort Totten Bay			
Cladocera			
Cladoceran juvenile	4 .2	1 1.5	0.0 0
Chydorus sphaericus	0 0	.1 .5	<.1 .1
Daphnia pulex	4 4.8	.5 .05	<.1 <.1
Daphnia galeata mendotae	0 0	0 0	<.1 0
Daphnia similis	4 3.2	2 2	0 0
Diaphanosoma birgei	0 0	0 0	<.1 0
Eubosmina hagmanni	.8 .8	1 <.1	25.5 29.4
Total	12.8 9	4.6 4.1	25.7 29.55
Average total Cladocera	10.9	4.35	27.62
Total small Cladocera (avg. lgth. < 0.7 mm)	4.8 1	2.1 2.05	25.6 29.5
Average total small Cladocera	2.9	2.075	27.55

Organism scientific name Family Genus species	Date 2-7-90	5-9-90	8-8-90
Site 9, Devils Lake, Fort Totten Bay--Continued			
Cladocera--Continued			
Total large Cladocera (avg. lgth. > 0.7 mm)	8 8	2.5 2.05	0.1 <.1
Average total large Cladocera	8	2.275	<.1
Copepoda			
Calanoid juvenile	0.0 0	1.5 5.5	72 85.4
Calanoid nauplii	22.4 20.8	52 33.5	112.5 128.8
Calanoid egg	0 0	0 0	24 2.8
Cyclopoid juvenile	73.6 50.4	42 32.5	18 43.4
Cyclopoid nauplii	32.8 16	126 126.5	88.5 117.6
Diacyclops thomasi male	.8 .8	3 4	0 0
Diacyclops thomasi female	2.4 4	7 6.5	0 0
Diacyclops thomasi egg	121.6 48	129 242	0 0

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date 2-7-90	5-9-90	8-8-90
Site 9, Devils Lake, Fort Totten Bay--Continued			
Copepoda--Continued			
Diaptomus sicilis male	37.6 24	2 1	12 15.4
Diaptomus sicilis female	28 21.6	3 .5	18 25.2
Diaptomus sicilis egg	25.6 3.3	52.5 13	57 100.8
Eucyclops speratus female	0 0	0 .2	0 0
Hesperodiaptomus nevadensis male	0 0	0 0	<.1 <.1
Hesperodiaptomus nevadensis female	0 0	0 0	<.1 <.1
Hesperodiaptomus nevadensis egg	0 0	0 0	0 .6
Mesocyclops edax male	0 0	0 0	1.5 .5
Mesocyclops edax female	0 0	1.5 .5	4.5 1.4
Mesocyclops edax egg	0 0	0 0	0 1.8
Total Copepoda adults	68.8 50.4	16.5 12.7	36.1 43.2
Average total Copepoda adults	59.6	14.6	39.65
Total Copepoda juveniles	128.8 87.2	221.5 198	291 375.2
Average total Copepoda juveniles	108	209.75	333.1
Total Copepoda eggs	147.2 51.3	181.5 255	81 106
Average total Copepoda eggs	99.25	218.25	93.5
Total Calanoid Copepods (juveniles plus adults)	113.6 69.7	111 53.7	271.6 356.3
Average total Calanoid Copepods	91.65	82.35	313.95
Total Cyclopoid Copepods	109.6 71.2	179.5 170.2	112.5 162.9
Average total Cyclopoid Copepods	90.4	174.85	137.7

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date 2-7-90	5-9-90	8-8-90
Site 9, Devils Lake, Fort Totten Bay--Continued			
Rotifera			
Brachionus havanaensis	0.0 0	0.0 0	574.5 840
Brachionus plicatilis	0 0	0 0	79.5 247.8
Brachionus satanicus	0 0	0 0	4.5 0
Brachionus urceolaris	2.4 1.6	4 4.5	0 0
Filinia longiseta	0 0	0 0	108 280
Keratella cochlearis	0 .1	0 0	234 404.6
Keratella quadrata	.8 3.2	<.1 0	1.5 0
Philodina sp.	0 0	1 <.1	0 0
Total	3.2 4.9	5.05 4.55	1,002 1,772.4
Average total Rotifera	4.05	4.8	1,387.2

Organism scientific name Family Genus species	Date 5-9-90	8-8-90	9-12-90	10-25-90
Site 10, East Devils Lake main bay				
Amphipoda				
Gammarus lacustris	0.0 0	0.0 0	0.0 0	0.0 <.1
Hyallela azteca	0 0	0 0	0 0	0 <.1
Total	0 0	0 0	0 0	0 .1
Average total Amphipoda	0	0	0	<.1
Cladocera				
Cladoceran juvenile	0.1 0	0.0 0	0.0 .1	0.0 <.1
Daphnia pulex	<.1 .2	1.4 1.8	.4 .2	.1 <.1
Daphnia similis	.1 .1	4 5.2	.3 .7	0 0
Total	.25 .3	5.4 7	.7 1	.1 .1
Average total Cladocera	.275	6.2	.85	.1
Total small Cladocera (avg. lgth. < 0.7 mm)	.1 0	0 0	0 .1	0 <.1

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date 5-9-90	8-8-90	9-12-90	10-25-90
Site 10, East Devils Lake main bay--Continued				
Cladocera--Continued				
Average total small Cladocera	<0.1	0.0	<0.1	<0.1
Total large Cladocera (avg. lgth. > 0.7 mm)	.15 .3	5.4 7	.7 .9	.1 <.1
Average total large Cladocera	.225	6.2	.8	<.1
Copepoda				
Calanoid juvenile	3.2 3	23.4 22	22.4 28.2	7.6 6.4
Calanoid nauplii	84.4 73.9	20.4 20	8.9 12.3	.5 .7
Calanoid egg	0 0	0 .6	1.7 1.9	0 0
Cyclopoid juvenile	1.4 .4	0 0	0 .2	0 0
Cyclopoid nauplii	48.1 41.3	3.6 1.4	2.1 1.3	0 0
Cyclopoid egg	1.9 0	0 0	0 0	0 0
Diacyclops thomasi male	.1 <.1	0 0	0 <.1	0 0
Diacyclops thomasi female	0.3 <.1	0.0 0	<0.1 0	0.0 0
Diaptomus sicilis male	3.9 3.4	1 2	.5 .8	7.2 4.4
Diaptomus sicilis female	3.2 2.5	1.6 1.2	.93 1.1	6.2 3.5
Diaptomus sicilis egg	74.6 43.5	2 2.8	3.8 5.2	.1 .1
Hesperodiaptomus nevadensis male	0 0	<.1 <.1	.1 <.1	.1 <.1
Hesperodiaptomus nevadensis female	<.1 <.1	<.1 .1	.1 .1	.1 .1
Hesperodiaptomus nevadensis egg	.9 .4	0 0	0 0	1 1.2
Mesocyclops edax female	.1 0	0 0	0 0	0 0
Total Copepoda adults	8.55 6.45	2.7 3.35	1.68 2.1	14.6 9.25
Average total Copepoda adults	7.5	3.025	1.89	11.925
Total Copepoda juveniles	137.1 118.6	47.4 43.4	33.4 42	8.1 7.1

Table 5.--Zooplankton species and densities in water samples collected from Devils Lake and East Devils Lake sampling sites, September 1988 through October 1990--Continued

Organism scientific name Family Genus species	Date 5-9-90	8-8-90	9-12-90	10-25-90
Site 10, East Devils Lake main bay--Continued				
Copepoda--Continued				
Average total Copepoda juveniles	127.85	45.4	37.7	7.6
Total Copepoda eggs	77.4 43.9	2 3.4	5.5 7.1	1.1 1.3
Average total Copepoda eggs	60.65	2.7	6.3	1.2
Total Calanoid Copepods (juveniles plus adults)	170.25 126.75	48.5 48.15	36.73 47.75	22.8 16.45
Average total Calanoid Copepods	148.5	48.325	42.24	19.625
Total Cyclopoid Copepods	50 41.8	3.6 1.4	2.15 1.55	0 0
Average total Cyclopoid Copepods	45.9	2.5	1.85	0

Organism scientific name Family Genus species	Date 5-9-90	8-8-90	9-12-90	10-25-90
Site 10, East Devils Lake main bay--Continued				
Rotifera				
Brachionus havanaensis	0.0 0	0.2 0	0.0 0	0.0 0
Brachionus urceolaris	.2 0	0 0	0 0	0 0
Total	.2 0	.2 0	0 0	0 0
Average total Rotifera	.1	.1	0	0

Table 6.--Concentrations of nutrient constituents in bottom-material samples collected from Devils Lake and East Devils Lake sampling sites, October 1989 through October 1990

[<, less than]

Date	Total in bottom material (milligrams per kilogram)			
	Nitrogen			
	Nitrite plus Nitrate as N	Ammonia as N	Ammonia plus organic as N	Phosphorus, as P
Site 1, Devils Lake, West Bay				
Nov. 7, 1989	<10	55	12,000	510
May 9, 1990	<2.0	34	7,500	700
August 7, 1990	<2.0	190	15,000	570
October 24, 1990	<2.0	140	12,000	600
Site 2, Devils Lake, Sixmile Bay				
October 25, 1989	26	26	6,400	710
May 9, 1990	<2.0	20	4,200	850
August 7, 1990	<2.0	110	5,900	620
October 24, 1990	<2.0	100	6,400	650
Site 3, Devils Lake, Creel Bay				
October 25, 1989	21	46	11,000	1,100
May 8, 1990	<2.0	25	11,000	1,000
August 7, 1990	<2.0	110	3,000	780
October 24, 1990	<2.0	200	9,100	990
Site 4, Devils Lake, Main Bay				
October 25, 1989	60	110	9,600	970
May 9, 1990	<2.0	41	6,800	1,100
August 7, 1990	<2.0	190	6,300	810
October 24, 1990	<2.0	100	9,600	1,000
Site 5, Devils Lake, Mission Bay				
October 26, 1989	<10	47	5,900	650
May 8, 1990	<2.0	24	8,000	830
August 7, 1990	<2.0	120	5,200	790
October 24, 1990	<2.0	69	6,900	790

Table 6.--Concentrations of nutrient constituents in bottom-material samples collected from Devils Lake and East Devils Lake sampling sites, October 1989 through October 1990--Continued

Date	Total in bottom material (milligrams per kilogram)			
	Nitrogen			
	Nitrite plus Nitrate as N	Ammonia as N	Ammonia plus organic as N	Phosphorus, as P
Site 6, Devils Lake, East Bay west				
October 26, 1989	16	46	10,000	790
May 8, 1990	<2.0	20	7,800	850
August 8, 1990	<2.0	110	7,400	780
October 25, 1990	<2.0	28	8,000	800
Site 7, Devils Lake, East Bay east				
October 26, 1989	22	12	4,900	660
May 8, 1990	<2.0	21	4,800	910
August 8, 1990	<2.0	130	5,300	690
October 25, 1990	<2.0	71	6,600	880
Site 8, East Devils Lake inlet				
November 8, 1989	<10	<10	540	200
Site 9, Devils Lake, Fort Totten Bay				
May 9, 1990	<2.0	85	12,000	800
August 8, 1990	<2.0	210	9,200	720
Site 10, East Devils Lake main bay				
May 9, 1990	<2.0	6.7	6,100	690
August 8, 1990	<2.0	69	6,200	610
October 25, 1990	<2.0	4.0	7,700	660