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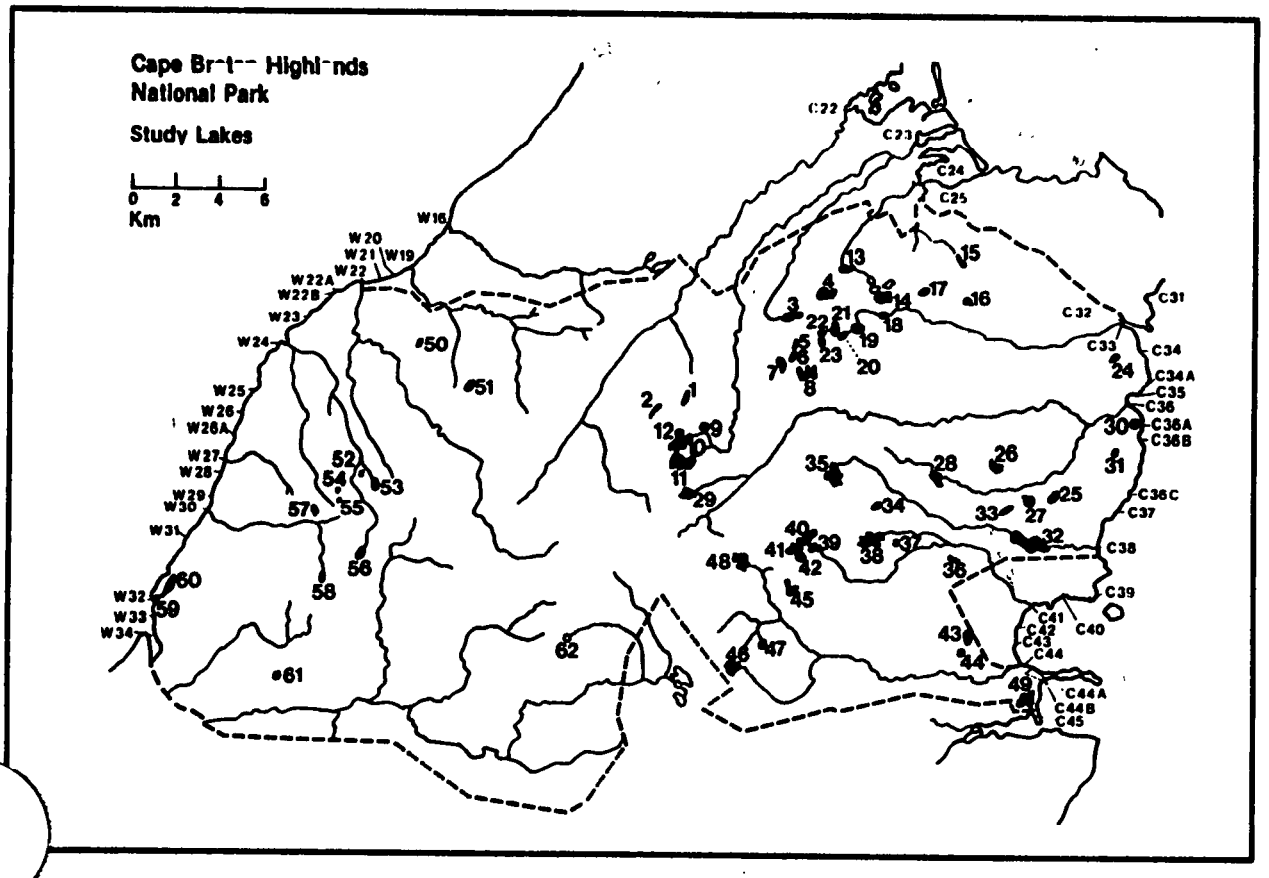
# Cape Breton Highlands National Park, N.S.






Prepared for
Parks Canada

by

an Wildlife Service
Atlantic Region

1978

## Aquatic Resource Inventory
## Part 3

## Selected Limnological Measurements in 62 Lakes

by

Joseph Kerekes, Peter Schwinghamer, and Richard Scott

# Aquatic Resources Inventory

# Cape Breton Highlands National Park

# Nova Scotia

Part 3



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ABSTRACT

Limnological measurements obtained between March, 1973, and March, 1977, from 62 lakes in Cape Breton Highlands National Park, Nova Scotia, are presented.

Acknowledgements

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# Introduction

Parks Canada requested the Canadian Wildlife Service to survey the aquatic resources of Cape Breton Highlands National Park, Nova Scotia. The objective of a resource inventory is to provide sound baseline information on the resources. Therefore, a special effort was made to compile as many relevant data as possible and include them in the reports. The reports will provide answers to many resource inventory and management questions of today as well as questions which will arise in the future. The data and some of the conclusions will provide some firm points upon which to base future investigations.

This is the third report presenting the results of the Aquatic Resource Inventory of Cape Breton Highlands National Park. This report presents selected limnological measurements from 62 lakes and ponds of the Park obtained between March, 1973, and March, 1977. A more extensive survey of these lakes was performed between June, 1976, and March, 1977. The measurements included are water temperature, dissolved oxygen concentration, pH, water color, specific conductance, turbidity, Secchi disc transparency, chlorophyll a and phaeophytin concentrations, total phosphorus concentration and dissolved inorganic carbon concentration. Limnological measurements for inlets and outlets of 17 lakes including Freshwater, Warren, Jigging Cove, French and Presqu'ile Lakes, are given in conjunction with the stream data in Part 4 of the Aquatic Resources Inventory. Bathymetric maps and morphometric features of the lakes investigated are given in Part 2 of the Aquatic Resources Inventory.

The purpose of this report is to present the data for readily available reference. Discussion and conclusions will be the subjects of subsequent reports.

## Materials and Methods

### Limnological Measurements

Surface water samples were taken on Nov. 25-27, 1975 and Aug. 9-11, 1976, from the approximate center points of 44 lakes in the Park, using helicopter transportation. The samples collected during the Nov. 25-27, 1975, survey were taken with a 2 liter plexiglas "Student Sampler" (Ric Inc., Guelph, Ontario) and transferred to pre-rinsed polyethylene bottles. Sampling during the August 9-11, 1976, survey employed direct means from lake surface to pre-rinsed polyethylene bottles. Water temperatures were taken at the time of sampling. Samples were taken to the working facility in the Park (the Ingonish Fire Shed in 1975, a field laboratory at Cape North in 1976) where they were further treated for complete chemical analysis by the Water Quality Branch, Inland Waters Directorate, Environment Canada, at Moncton, N.B., using methods listed in the NAQUADAT Water Quality Dictionary (Anon., 1973). Subsamples were also taken for chlorophyll a, total phosphorus, pH, specific conductance, color, and turbidity analysis at our own laboratory.

Water samples were collected from various depths at the deepest station during regular intervals from January 1976 to March 1977 in Jigging Cove, Warren, Freshwater, French and Presqu'ile Lakes. Paquette, Branch Pond, Cann's and MacDougall's Lakes were also sampled periodically during the ice free season in 1976, at the deepest station. Deep station sampling was done once or twice in John Dee, Roundhill No. 1 and No. 2, Gwinn, Baldwin, Glasgow, Long, Round, Lobster, Dundas No. 3, No. 4, and No. 5 and Two Island Lakes. A two liter non-metallic Kemmerer sampler was used. Samples were stored refrigerated in tightly capped polyethylene bottles prior to analysis.

Deep station data includes temperature, dissolved oxygen, pH, color, specific conductance, turbidity, total phosphorus, chlorophyll a, dissolved inorganic carbon and Secchi transparency.

Regular surface water samples were taken at Wreck Beach Pond, Benjie's Bog, Benjie's Lake, Bog Exhibit, Bog South and Fishing Cove Lake during the 1976 ice free season. Surface sample data includes temperature, pH, color, specific conductance, turbidity, total phosphorus, chlorophyll a and phaeophytin, and dissolved inorganic carbon. Surface samples were collected in pre-rinsed polyethylene bottles and were stored tightly capped in a refrigerator prior to analysis.

## Temperature

Water temperature was measured with a calibrated thermistor (Yellow Springs Instruments) or pocket thermometer except for regular deep station sampling where a Hydrolab Surveyor 11 was used.

## Dissolved Oxygen

Concentration of dissolved oxygen was measured with a calibrated membrane probe oxygen meter (Yellow Springs Instruments) except for regular deep station sampling where the Hydrolab Surveyor 11 was used.

## Hydrogen Ion Concentration

Determinations of pH were performed either in the field laboratory soon after sampling using a Radiometer 4 d pH meter or, in the case of regular deep stations, in situ using the Hydrolab Surveyor 11.

## Specific Conductance

Specific conductance of surface samples was measured in the field laboratory soon after collection at 25°C using a Radiometer CDM2 conductivity meter. Regular deep station conductance values were obtained in situ using the Hydrolab Surveyor 11 equipped with a low range probe. The latter readings were corrected for non-linear probe response when values were less than

150 µs/cm.

## Color

Apparent water color was determined in the field laboratory on untreated samples using a Hellige Aqua Tester equipped with permanent platinum-cobalt color standard discs ranging from 0 to 100 Hazen units, and 200 mm standard depth Nessler tubes. Color values greater than 100 Hazen units were obtained by sample dilution.

## Turbidity

A calibrated, direct reading Hach turbidity meter Model 1860 was employed for turbidity determinations.

## Transparency

A Secchi disc 20 cm in diameter was used from the shaded side of the boat where lake depth permitted this measurement.

## Plant Pigments

Chlorophyll a and phaeophytin were determined by the fluorometric method of Yentsch and Menzel (1963), as modified by Holm-Hansen et al (1965) and recommended by Strickland and Parsons (1968). At the field laboratory, duplicate samples of 250 ml were filtered through 4.25 cm Whatman GF/C glass fibre filters in subdued illumination. Vacuum applied to the filtration assembly was kept below 380 mm Hg.

The filters were then dried under dark dessicated conditions followed by dessicated storage in a container at -18°C until transfer to the Halifax laboratory for extraction and fluorometry. The Model 110 Turner fluorometer used was calibrated against pure chlorophyll a extract supplied by Sigma Chemical Co., St. Louis, Missouri.

## Total Phosphorus

Unfiltered samples of lake waters were stored at -18°C in polyethylene containers for total phosphorus determination. These were shipped frozen to Halifax. Immediately after quick thawing, duplicate samples were digested with potassium persulfate for 30 minutes at 121 C to mineralize the organically bound phosphorus (Menzel and Corwin, 1965). The phosphate thus produced was then estimated, along with inorganic phosphate originally present in the sample, by the method of Murphy and Riley (1962).

## Dissolved Inorganic Carbon

Dissolved inorganic carbon samples were collected in 150 ml glass bottles and kept airtight and cool for transport back to the laboratory in Halifax. Once there, the analysis was carried out according to the procedure of Stainton (1973).

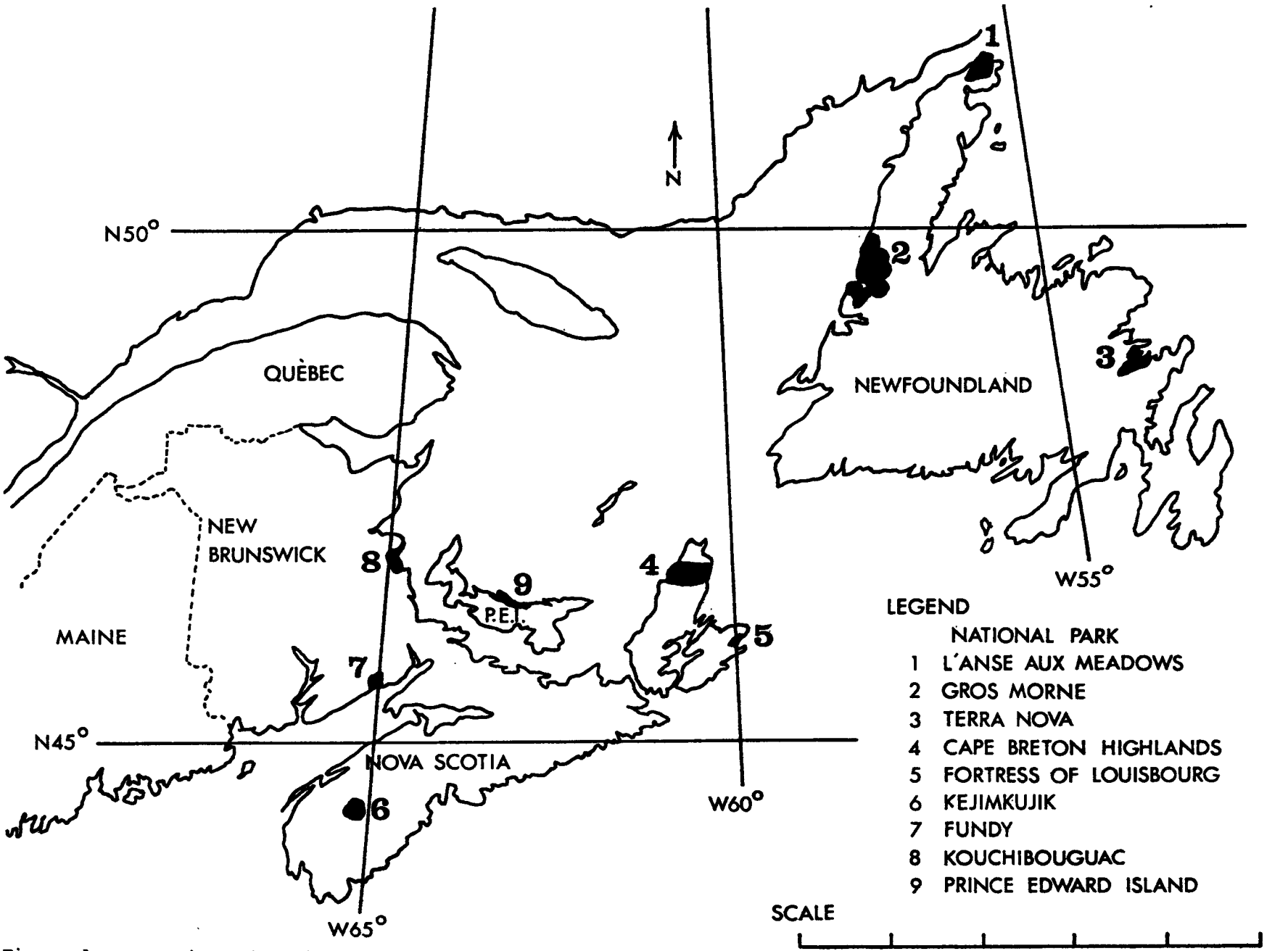



Figure 1. Location of National Parks in the Atlantic Region.

## Presentation of Data

The location of Cape Breton Highlands National Park is illustrated in Figure 1. Locations of the 62 lakes which were investigated during the 1975-77 field operations are shown in Figure 2 and listed in Table 1 accompanied by names, drainage reference numbers, geographic location and elevation. Lakes are listed according to drainage reference numbers (Part 1, Aquatic Resources Inventory, Kerekes et al. (1977)) throughout this report.

Table 2 contains a list of lakes and sampling dates. Included in the list are those lakes which were sampled routinely at their deepest points at various depths from lake surface to lake bottom to give an insight into the vertical distribution of the variables measured. Those lakes are Freshwater, Warren, Jigging Cove, French and Presqu'ile.

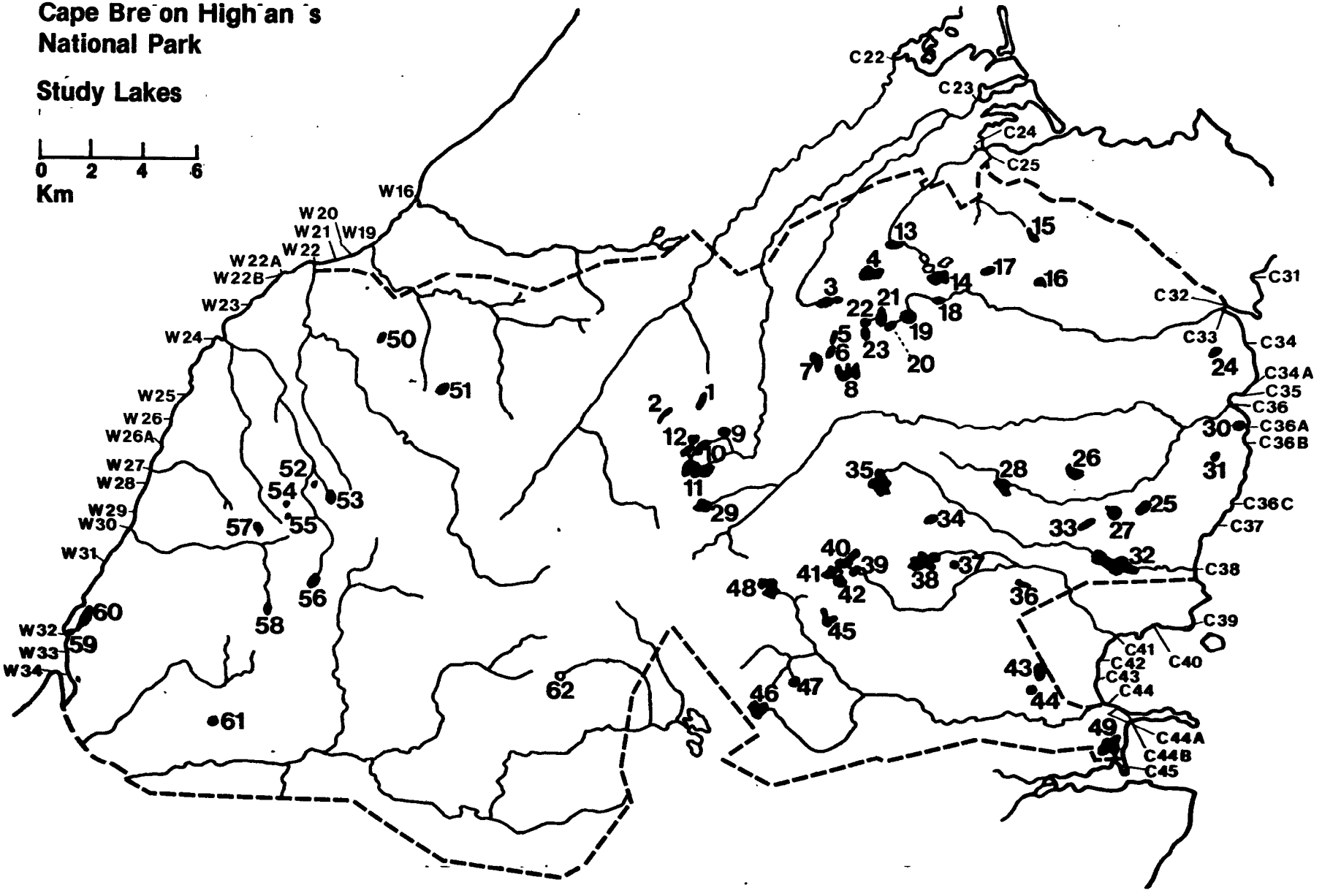
Tables 3 through 64 present limnological measurements collected for each of the 62 lakes. Those measurements are: air temperature, water temperature, dissolved oxygen, pH, color, specific conductance, turbidity, total phosphorus, chlorophyll a, phaeophytin, dissolved inorganic carbon and secchi disc transparency, and ice thickness when applicable.

Limnological data for inlets and outlets of 17 lakes, including Freshwater, Warren, Jigging Cove, French and Presqu'ile Lakes, are given in Part 4.

Water chemistry of surface waters in 47 lakes of Cape Breton Highlands National Park collected during aerial surveys of November, 1975, and August, 1976, is complied in Tables 65 through 71. The following is a content description of each table. Table 65 contains selected limnological measurements. Table 66 lists major anions and cations, specific conductance, salinity and pH. Relative proportions as equivalent percentages, concentrations as milliequivalents per liter and order of dominance of major anions and cations are presented in Tables 67, 68 and 69 respectively. Table 70 contains a list of concentrations of manganese, lead mercury, Kjeldhal nitrogen, nitrate-nitrite nitrogen and total organic carbon. Selected water quality indices, total alkalinity and percent analytical error are listed in Table 71.

Figure 2. Location of lakes sampled by Canadian Wildlife Service in Cape Breton Highlands National Park. Sequential numbers 1 to 62 refer to those numbers located in Column 1 of Table 2 on the following page. Drainage basin reference numbers of Cape Breton Island West Drainage (W) and Central Drainage (C) are also shown.

Figure 2.


Cape Breton Highlands
National Park
Study Lakes
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W21
W19
W22
W22A
W22B
W23
W24
W25
W26
W26A
W27
W28
W29
W30
W31
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Table 1. The lakes sampled in Cape Breton Highlands National Park with geographical locations and approximate surface elevations. Lakes are listed in order of drainage basin reference number as defined in Part 1, Aquatic Resources Inventory. Sequential map numbers 1 to 62 refer to Fig. 2.

| Map No. | | Drainage Reference | Lake | Latitude | Longitude | Elevation ft. | Elevation m |
|---|---|---|---|---|---|---|---|
| 1 | * | C22.13.Mb | Bear No. 1 | 46°46'20" | 60°36'48" | 1500 | 460 |
| 2 | * | C22.13d | Deer | 46 45 57 | 60 37 54 | 1550 | 470 |
| 3 | * | C23.1.3e | Chain No. 4 | 46 48 44 | 60 32 30 | 1300 | 400 |
| 4 | * | C23.1d5a | John Dee | 46 48 50 | 60 31 10 | 1350 | 410 |
| 5 | | C23.1e | Roundhill No. 3 | 46 47 56 | 60 33 10 | 1300 | 400 |
| 6 | | C23.1f | Roundhill No. 2 | 46 47 35 | 60 33 36 | 1300 | 400 |
| 7 | * | C23.1f8a | Roundhill No. 1 | 46 47 30 | 60 33 45 | 1300 | 400 |
| 8 | * | C23.1g | Gwinn | 46 47 20 | 60 32 47 | 1350 | 410 |
| 9 | | C23.9a | Unnamed | 46 45 50 | 60 36 31 | 1550 | 470 |
| 10 | * | C23.9d | Twin No. 1 | 46 45 22 | 60 37 15 | 1600 | 490 |
| 11 | * | C23c | Baldwin | 46 44 50 | 60 37 10 | 1600 | 490 |
| 12 | * | C23d | Twin No. 2 | 46 45 30 | 60 37 30 | 1600 | 490 |
| 13 | * | C24a | Burton | 46 49 54 | 60 31 00 | 1250 | 380 |
| 14 | * | C24g | Glasgow | 46 49 10 | 60 29 30 | 1350 | 410 |
| 15 | * | C25.2.1a | Paquette | 46 50 00 | 60 26 00 | 850 | 260 |
| 16 | * | C33.3b | Mica Hill | 46 48 52 | 60 26 35 | 1100 | 335 |
| 17 | | C33.3d | Daisley's | 46 49 21 | 60 28 23 | 1400 | 430 |
| 18 | | C33a | Long | 46 48 43 | 60 29 24 | 1350 | 410 |
| 19 | * | C33b | Round | 46 48 22 | 60 30 30 | 1400 | 430 |
| 20 | | C33d | Unnamed | 46 48 06 | 60 31 12 | 1450 | 440 |
| 21 | | C33e | Lobster | 46 48 06 | 60 31 23 | 1450 | 440 |
| 22 | | C33g | Five Island No. 2 | 46 48 18 | 60 31 47 | 1450 | 440 |
| 23 | * | C33h | Five Island No. 1 | 46 48 06 | 60 32 08 | 1450 | 440 |
| 24 | * | C34a | Jigging Cove | 46 47 20 | 60 20 30 | 150 | 45 |
| 25 | * | C36.1.2a | Broad Cove Mountain | 46 44 00 | 60 23 30 | 600 | 185 |
| 26 | * | C36.1.3b | Brown's | 46 44 53 | 60 25 35 | 1000 | 305 |
| 27 | * | C36.1.5a | Rudderham | 46 44 00 | 60 24 26 | 650 | 200 |
| 28 | * | C36.1b | Branch Pond | 46 44 30 | 60 27 20 | 1000 | 305 |
| 29 | * | C36.13a | Sunday | 46 44 08 | 60 37 00 | 1600 | 490 |
| 30 | | C36A.a | Wreck Beach Pond | 46 45 55 | 60 19 35 | 50 | 15 |
| 31 | | (C36B)a | Unnamed | 46 45 00 | 60 21 00 | 350 | 105 |
| 32 | * | C38a | Warren | 46 42 50 | 60 23 40 | 50 | 15 |
| 33 | * | C38a3a | Cradle | 46 43 50 | 60 26 00 | 850 | 260 |
| 34 | * | C38.4a | Spud | 46 43 50 | 60 29 50 | 1250 | 380 |
| 35 | * | C38b | Lake of Islands | 46 44 30 | 60 30 20 | 1400 | 430 |

continued,

Table 1, continued.

| Map. No. | | Drainage Reference | Lake | Latitude | Longitude | Elevation ft. | Elevation m |
|---|---|---|---|---|---|---|---|
| 36 | * | C41.4a | Long Pond | 46°41'25" | 60°26'30" | 400 | 120 |
| 37 | | C41.5.2a | Unnamed | 46 43 00 | 60 29 02 | 1350 | 410 |
| 38 | * | C41.5c | Roper | 46 42 50 | 60 29 52 | 1350 | 410 |
| 39 | | C41b | Dundas No. 2 | 46 42 43 | 60 31 55 | 1450 | 440 |
| 40 | * | C41c | Dundas No. 3 | 46 42 50 | 60 32 20 | 1450 | 440 |
| 41 | | C41d | Dundas No. 4 | 46 42 37 | 60 32 50 | 1450 | 440 |
| 42 | * | C41d10a | Dundas No. 5 | 46 42 25 | 60 32 32 | 1450 | 440 |
| 43 | * | C42b | Cann's | 46 40 20 | 60 26 00 | 700 | 215 |
| 44 | * | C43a | MacDougall's | 46 40 20 | 60 26 24 | 800 | 245 |
| 45 | * | C44.6.1d | Gull | 46 41 25 | 60 32 30 | 1450 | 440 |
| 46 | * | C44.8a | Two Island | 46 39 35 | 60 35 10 | 1550 | 470 |
| 47 | * | C44.9.1.2a | Indian | 46 40 14 | 60 33 50 | 1500 | 460 |
| 48 | * | C44a | White Hill | 46 42 15 | 60 35 00 | 1600 | 490 |
| 49 | * | C45a | Freshwater | 46 38 40 | 60 23 47 | 10 | 3 |
| 50 | * | W19.3a | Sugar Brook No. 2 | 46 47 55 | 60 47 00 | 1300 | 400 |
| 51 | * | W19.4(9)a | MacIntosh | 46 46 45 | 60 45 50 | 1300 | 400 |
| 52 | | (W22.2) | Benjie's Bog Pond | 46 49 50 | 60 49 16 | 1350 | 410 |
| 53 | | W22.2a | Benjie's | 46 44 25 | 60 48 32 | 1350 | 410 |
| 54 | | W24.8.1a | Bog Exhibit Pond | 46 44 22 | 60 49 48 | 1350 | 410 |
| 55 | | W24.8.1c | Bog South Pond | 46 44 26 | 60 49 48 | 1350 | 410 |
| 56 | | W24a | Fishing Cove | 46 42 33 | 60 49 40 | 1450 | 440 |
| 57 | * | W30.6a | French | 46 43 41 | 60 51 56 | 1400 | 430 |
| 58 | * | W30b | Corney | 46 41 31 | 60 50 35 | 1500 | 460 |
| 59 | * | W32a | Little Presqu'ile | 46 41 10 | 60 57 35 | 5 | 2 |
| 60 | * | W32b | Presqu'ile | 46 41 25 | 60 57 25 | 5 | 2 |
| 61 | * | W34.3.3c | Lac des Plees Ferrees No. 3 | 46 39 05 | 60 53 03 | 1450 | 440 |
| 62 | * | W34.32.1a | Cranberry | 46 40 15 | 60 41 33 | 1650 | 505 |

* Surface sampled during aerial surveys of November, 1975 and August, 1976.

Table 2: List of lakes and dates of sampling for Secchi Disc Transparency, Water Temperature, Dissolved Oxygen, pH, Specific Conductance, Water Colour, Turbidity, Chlorophyll a, Phaeophytin, Total Phosphorus and Dissolved Inorganic Carbon concentrations in Cape Breton Highlands National Park. Lakes are listed according to drainage reference numbers.

| TABLE | PAGE | LAKE | DRAINAGE REFERENCE | SAMPLING DATES |
|---|---|---|---|---|
| 3 | 15 | * Bear No. 1 | C22.13.4b | Nov. 26/75; Aug. 9/76. |
| 4 | 16 | * Deer | C22.13d | Nov. 26/75; Aug. 9/76. |
| 5 | 17 | * Chain No. 4 | C23.1.3e | Nov. 27/75; Aug. 9/76. |
| 6 | 18 | John Dee | C23.1d5a | *Apr. 15, *Nov. 25/75; *Aug. 9, Oct. 6/76. |
| 7 | 20 | * Roundhill No. 3 | C23.1e | Aug. 4/76. |
| 8 | 21 | Roundhill No. 2 | C23.1f | Aug. 4/76. |
| 9 | 22 | Roundhill No. 1 | C23.1f8a | *Nov. 26/75; Aug. 4, *Aug. 9/76. |
| 10 | 24 | Gwinn | C23.1g | *Nov. 26/75; Aug. 3, *Aug. 9/76. |
| 11 | 27 | Unnamed | C23.9a | *Aug. 12/76. |
| 12 | 28 | * Twin No. 1 | C23.9d | Nov. 26/75; July 29, Aug. 9/76. |
| 13 | 30 | Baldwin | C23c | *Nov. 26/75; July 29, *Aug. 9/76. |
| 14 | 32 | * Twin No. 2 | C23d | Nov. 29/75; July 29, Aug. 9/76. |
| 15 | 35 | * Burton | C24a | Nov. 25/75; Aug. 9/76. |
| 16 | 36 | Glasgow | C24g | *Apr. 15, *Nov. 25/75; *Aug. 9, Oct. 8/76. |
| 17 | 38 | Paquette | C25.2.1a | *Nov. 25, 1975; June 30, *July 21, *Aug. 3, *Aug. 9, Aug. 18, *Sept. 3, *Sept. 23, *Oct. 21/76. |
| 18 | 43 | * Mica Hill | C33.3b | Nov. 25/75; Oct. 8/76. |
| 19 | 44 | * Daisley's | C33.3d | Oct. 8/76. |
| 20 | 45 | Long | C33a | *Apr. 15/75; Oct. 6/76. |
| 21 | 46 | Round | C33b | *Apr. 15, *Nov. 17/75; *Aug. 9, Sept. 22/76. |
| 22 | 48 | Unnamed | C33d | *Oct. 5/76. |
| 23 | 49 | Lobster | C33e | Oct. 5/76. |
| 24 | 50 | * Five Island No. 2 | C33g | Oct. 5/76. |
| 25 | 51 | * Five Island No. 1 | C33h | Nov. 27/75; Aug. 9/76. |
| 26 | 52 | Jigging Cove | C34a | *June 27, *Mar. 11, *Nov. 25/75; Jan. 14, Feb. 19, Mar. 24, *May 4, *May 27, June 25, *July 14, July 27, *Aug. 9, Aug. 19, Sept. 4, *Sept. 8, Sept. 23, *Oct. 27, *Nov. 24, *Dec. 14/76; Jan. 14, Feb. 3, Mar. 2/77. |
| 27 | 64 | * Broad Cove Mountain | C34.1.2a | Nov. 25/75; Aug. 9/76. |
| 28 | 65 | * Brown's | C36.1.3b | Nov. 25/75; Aug. 9/76. |
| 29 | 66 | * Rudderham | C36.1.5a | Nov. 25/75; Aug. 9/76. |
| 30 | 67 | Branch Pond | C36.1b | *Mar. 10, *Nov. 25/75; Mar. 10, July 1, July 20, Aug. 6, *Aug. 9, Aug. 24/76. |
| 31 | 71 | * Sunday | C36.13a | Nov. 26/75; Aug. 9/76. |
| 32 | 72 | * Wreck Beach Pond | C36a.a | July 27, Aug. 3, Aug. 18, Sept. 3, Sept. 13, Sept. 23, Oct. 13, Oct. 25/76. |

Continued.

Table 2, continued.

| TABLE | PAGE | LAKE | DRAINAGE REFERENCE | SAMPLING DATES |
|---|---|---|---|---|
| 33 | 73 | Unnamed | C36b.a | *Aug. 3/76. |
| 34 | 74 | Warren | C38a | *Sept. 26/74; *Mar. 10, *June 27, *Nov. 25/75; Jan. 14, Feb. 17, Mar. 24, May 6, May 26, June 13, June 29, July 12, July 15, July 26, *Aug. 9, Aug. 11, Aug. 23, Sept. 1, Sept. 7, Sept. 16, Oct. 1, Oct. 26, Nov. 23, *Dec. 14/76; Jan. 13, Feb. 1, Mar. 1/77. |
| 35 | 100 | * Cradle | C38a3a | Nov. 25/75; Aug. 9/76. |
| 36 | 101 | * Spud | C38.4a | Nov. 26/75; Aug. 9/76. |
| 37 | 102 | Lake of Islands | C38b | *Nov. 27/75; Mar. 2, *July 21, *Aug. 9/76. |
| 38 | 104 | * Long Pond | C41.4a | Nov. 27/75; Aug. 9/76. |
| 39 | 105 | * Unnamed | C41.5.2a | Aug. 12/76. |
| 40 | 106 | * Roper | C41.5c | Nov. 26/75; Aug. 9/76. |
| 41 | 107 | * Dundas No. 2 | C41b | July 29/76. |
| 42 | 108 | * Dundas No. 3 | C41c | Nov. 26/75; July 29, Aug. 9/76. |
| 43 | 111 | * Dundas No. 4 | C41d | July 29/76. |
| 44 | 112 | Dundas No. 5 | C41d10a | *Nov. 26/75; Mar. 3, *July 29, *Aug. 9/76. |
| 45 | 114 | Cann's | C42b | *Mar. 11/75; Mar. 11, June 16, July 13, *July 20, *Aug. 9, Aug. 16, Sept. 3, Sept. 20, *Oct. 26/76. |
| 46 | 120 | MacDougall's | C43a | *Mar. 11/75; June 16, July 13, *July 20, *Aug. 3,Aug. 9, Aug. 16, Sept. 2, Sept. 20, *Oct. 26/76. |
| 47 | 127 | * Gull | C44.6.1d | Nov. 26/75; Aug. 9/76. |
| 48 | 128 | Two Island | C44.8a | Apr. 23, *Nov. 25/75; *Aug. 9, Aug. 12/76. |
| 49 | 130 | * Indian | C44.9.1.2a | Nov. 25/75; Aug. 9/76. |
| 50 | 131 | * White Hill | C44a | Mar. 5, Nov. 26/75; Aug. 9/76. |
| 51 | 132 | Freshwater | C45a | Mar. 21/73; *Mar. 10, *June 27, *Nov.27/75; Jan. 13, Feb. 17, Mar. 23, May 4, May 26, June 13, June 28, July 12, *July 15, July 26, Aug. 10, Aug. 23, Aug. 31, Sept. 7, Sept. 14, Sept. 30, Oct. 20, Nov. 24, Dec. 14/76; Jan. 14, Feb. 1, Mar. 1/77. |
| 52 | 156 | * Sugar Brook No. 2 | W19.3a | Aug. 9/76. |
| 53 | 157 | * MacIntosh | W19.4.9a | Nov. 27/75; Aug. 9/76. |
| 54 | 158 | * Benjie's Bog | Draining to W22.2 | Aug. 1, Aug. 11, Sept. 10, Sept. 13, Sept. 24, Oct. 13, Oct. 25/76. |

Continued.

Table 2, continued

| TABLE | PAGE | LAKE | DRAINAGE REFERENCE | SAMPLING DATES |
|---|---|---|---|---|
| 55 | 159 | * Benjie's | W22.2a | July 22, Aug. 2, Aug. 17, Sept. 5, Sept. 23, Oct. 25/76. |
| 56 | 160 | * Fishing Cove | W24a | July 22, Aug. 2, Aug. 17, Sept. 5, Sept. 23, Oct. 25/76. |
| 57 | 161 | * Bog Exhibit Pond | W24.8.1a | July 22, Aug. 1, Aug. 11, Aug. 17, Sept. 4, Sept. 10, Sept. 13, Sept. 24, Oct. 13, Oct. 25/76. |
| 58 | 162 | * Bog South Pond | W24.8.1c | Aug. 1, Aug. 11, Sept. 10, Sept. 13, Sept. 24, Oct. 13, Oct. 25/76. |
| 59 | 163 | French | W30.6a | *June 27, *Nov. 27/75; Feb. 18, Mar. 23, *May 5, May 27, June 24, July 9, *July 13, *July 14, July 23, *Aug. 1, *Aug. 11, Aug. 17, Sept. 4, *Sept. 8, Sept. 24, Oct. 27, Nov. 25, *Dec. 15/76; Jan. 12, Feb. 2, Mar. 2/77. |
| 60 | 175 | * Corney | W30b | Nov. 27/75; Aug. 10/76; Jan. 31/77. |
| 61 | 176 | Little Presqu'ile | W32a | *June 27, *Nov. 27/75; Jan. 15, Feb. 18, *Mar. 23, May 5/76. |
| 62 | 179 | Presqu'ile | W32b | *June 27, *Nov. 27/75; Jan. 15, Feb. 18, *Mar. 23, *May 5, May 27, June 24, July 9, *July 14, July 23, *Aug. 1, *Aug. 11, Aug. 17, Sept. 5, *Sept 8, *Sept. 13, Sept. 24, *Oct. 13, Oct. 27, Nov. 25, *Dec. 15/76; Jan. 12, Feb. 2, Mar. 2/77. |
| 63 | 192 | * Lac des Plees Ferrees No. 3 | W34.3.3c | Aug. 10/76. |
| 64 | 193 | * Cranberry | W34.32.1a | Nov. 26/75; Aug. 9/76. |

* Surface samples only.

_____. Lakes underlined were sampled intensively.

Table 3 . Limnological measurements in Bear Lake C22.13.4b, C.B.H. National Park.

BEAR LAKE C22.13.4B NOVEMBER 25 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SATN | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 1.5 | | | 5.6 | 54. | 40 | 1.00 | 6.7 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.2 | 0.4 | |

BEAR LAKE C22.13.4B AUGUST 9 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SATN | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | 5.7 | 46. | 30 | 0.75 | 4.7 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.8 | 0.5 | 2.9 |

Table 4 . Limnological measurements in Deer Lake C22.13d, C.B.H. National Park.

DEER LAKE C22.13D NOVEMBER 26 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 1.0 | | | 5.7 | 54. | 40 | 0.80 | 10.0 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 2.6 | 0.3 | |

DEER LAKE C22.13D AUGUST 9 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | 5.9 | 41. | 35 | 0.92 | 7.9 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.9 | 0.4 | 2.0 |

Table 5 . Limnological measurements in Chain Lake, No. 4, C23.1.3e, C.B.H. National Park.

CHAIN LAKE NO.4 C23.1.3E NOVEMBER 27 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 1.5 | | | 5.8 | 35. | 18 | 0.40 | 5.8 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.7 | 0.2 | |

CHAIN LAKE NO.4 C23.1.3E AUGUST 9 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 19.0 | | | 6.0 | 35. | 10 | 0.51 | 5.3 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.8 | 0.7 | 2.6 |

Table 6 . Limnological measurements in John Dee Lake C23.1d5a, C.B.H. National Park.

JOHN DEE LAKE C23.1D5A APRIL 15 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 2.0 | | | 4.8 | 49. | 70 | 0.24 | |

JOHN DEE LAKE C23.1D5A NOVEMBER 25 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 1.0 | | | 5.3 | 40. | 70 | 0.30 | 12.7 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.6 | 0.3 | |

JOHN DEE LAKE C23.1D5A AUGUST 9 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | 4.9 | 47. | 70 | 0.21 | 11.4 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.0 | 1.1 | 2.7 |

continued,

Table 6 , cont.

JOHN DEE LAKE C23.105A OCTOBER 6 1976 AIR TEMP 18C SECCHI 2.8M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SATN | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 10.5 | 10.8 | 105. | 6.2 | 27. | 70 | 0.50 | 12.9 |
| 2.0 | | | | 6.3 | 27. | 70 | 0.58 | 12.6 |
| 3.0 | | | | 6.4 | 27. | 70 | 0.57 | 14.2 |
| 4.0 | | | | 6.4 | 27. | 70 | 0.60 | 12.9 |
| 6.0 | 10.0 | 11.2 | 108. | 6.4 | 27. | 70 | 0.58 | 11.4 |
| 8.0 | 10.0 | 11.2 | 108. | 6.5 | 28. | 70 | 0.60 | 10.9 |
| 10.0 | 9.5 | 11.4 | 108. | 6.7 | 27. | 70 | 0.61 | 11.1 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.5 | 0.0 | 2.9 |
| 2.0 | 1.5 | 0.0 | |
| 3.0 | 1.3 | 0.2 | 2.2 |
| 4.0 | 1.3 | 0.2 | |
| 6.0 | 1.4 | 0.3 | 2.3 |
| 8.0 | 1.3 | 0.5 | |
| 10.0 | 1.6 | 0.0 | 2.4 |

Table 7 . Limnological measurements in Roundhill Lake No. 3, C23.1e, C.B.H.National Park.

ROUNDHILL LAKE NO.3 C23.1E AUGUST 4 1976 AIR TEMP 19C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 18.5 | 8.8 | 102. | 5.7 | 29. | 55 | 0.21 | 12.0 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.8 | 0.8 | 1.3 |

Table 8. Limnological measurements in Roundhill Lake No. 2, C23.1f, C.B.H. National Park.

ROUNDHILL LAKE NO.2 C23.1F AUG 4 1976 AIR TEMP 19C SECCHI BOTTOM

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 17.7 | 9.2 | 104. | 6.0 | 30. | 55 | 0.30 | 7.7 |
| 1.0 | 17.7 | 9.1 | 103. | 6.0 | 29. | 55 | 0.23 | 9.2 |
| 1.3 | | | | 6.0 | 29. | 55 | 0.27 | 8.2 |
| 1.8 | 17.7 | 9.1 | 103. | | | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.0 | 0.8 | 1.1 |
| 1.0 | 0.8 | 0.9 | |
| 1.3 | 0.9 | 0.9 | 1.0 |

Table 9 . Limnological measurements in Roundhill Lake No. 1, C23.1f8a, C.B.H. National Park.

ROUNDHILL LAKE NO.1 C23.1F8A NOVEMBER 26 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 1.5 | | | 5.8 | 44. | 35 | 0.70 | 10.6 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.0 | 0.2 | |

ROUNDHILL LAKE NO.1 C23.1F8A AUG 4 1976 AIR TEMP 20C SECCHI 3.9M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 18.9 | 9.4 | 109. | 6.1 | 30. | 35 | 0.33 | 8.9 |
| 1.0 | 18.7 | 9.2 | 108. | | | | | |
| 2.0 | 18.7 | 9.2 | 108. | 6.2 | 30. | 35 | 0.20 | 13.5 |
| 3.0 | 18.5 | 9.2 | 106. | 6.1 | 31. | 35 | 0.24 | 11.5 |
| 3.5 | 18.1 | 9.1 | 105. | | | | | |
| 4.0 | 17.8 | 9.0 | 103. | | | | | |
| 4.1 | | | | 5.9 | 31. | 50 | 0.93 | 20.8 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.7 | 0.7 | 0.8 |
| 2.0 | 0.7 | 0.5 | 1.1 |
| 3.0 | 0.6 | 0.4 | |
| 4.1 | 0.6 | 0.7 | 1.2 |

continued,

Table 9 , cont.

ROUNDHILL LAKE NO.1 C23.1F8A AUGUST 9 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | 5.8 | 40. | 30 | 0.62 | 6.2 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.4 | 0.2 | 1.2 |

Table 10. Limnological measurements in Gwinn Lake C23.1g, C.B.H. National Park.

GWINN LAKE C23.1G NOVEMBER 26 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 1.8 | | | 4.9 | 50. | 75 | 0.50 | 18.5 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.4 | 0.4 | |

GWINN LAKE C23.1G AUGUST 3 1976 AIR TEMP 23C SECCHI BOTTOM

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 18.2 | 9.0 | 103. | 5.7 | 26. | 45 | 0.36 | 8.2 |
| 1.0 | 18.0 | 9.1 | 104. | 5.6 | 27. | 45 | 0.32 | 8.6 |
| 2.0 | 18.0 | 9.1 | 104. | 5.7 | 26. | 45 | 0.27 | 12.6 |
| 3.0 | 17.8 | 8.9 | 102. | 5.6 | 26. | 45 | 0.28 | 7.1 |
| 3.3 | 17.5 | 8.5 | 97. | 5.6 | 27. | 45 | 0.72 | 19.1 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.4 | 0.8 | 1.5 |
| 1.0 | 0.4 | 0.6 | |
| 2.0 | 0.4 | 0.8 | 0.9 |
| 3.0 | 0.4 | 0.7 | 1.0 |
| 3.3 | 0.6 | 0.8 | |

continued,

Table 10 , cont.

GWINN LAKE C23.1G AUGUST 9 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | 5.1 | 38. | 80 | 0.47 | 7.6 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.7 | 0.9 | 1.4 |

Table 11 . Limnological measurements in Lake C23.9a, C.B.H.National Park.

LAKE C23.9A AUGUST 12 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | 4.5 | 29. | 25 | 0.51 | 4.7 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.6 | 0.7 | |

Table 12. Limnological measurements in Twin Lake, No. 1, C23.9d, C.B.H.National Park.

TWIN LAKE NO.1 C23.9D NOVEMBER 26 1975 UNDER ICE

| DEPTH M | TEMP. C | DISSOLVED OXYGEN MG/L | DISSOLVED OXYGEN %SAT'N | PH | CONDUCTANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBIDITY APHA UNITS | TOTAL PHOSPHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 1.0 | | | 5.3 | 49. | 50 | 0.70 | 5.5 |

| DEPTH M | CHLOROPHYLL A MG/M3 | PHAEOPHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.3 | 0.3 | |

TWIN LAKE NO.1 C23.9D JULY 29 1976

| DEPTH M | TEMP. C | DISSOLVED OXYGEN MG/L | DISSOLVED OXYGEN %SAT'N | PH | CONDUCTANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBIDITY APHA UNITS | TOTAL PHOSPHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 18.0 | 8.6 | 100. | 6.2 | 33. | 25 | 0.39 | 5.9 |

| DEPTH M | CHLOROPHYLL A MG/M3 | PHAEOPHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.6 | 1.1 | 2.6 |

continued,

Table 12, cont.

TWIN LAKE NO.1 C23.9D AUGUST 9 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 19.0 | | | 5.5 | 40. | 50 | 0.31 | 10.0 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.1 | 0.7 | 1.8 |

Table 13 . Limnological measurements in Baldwin Lake C23c, C.B.H. National Park.

BALDWIN LAKE C23C NOVEMBER 26 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 1.0 | | | 5.1 | 49. | 60 | 0.50 | 5.8 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.3 | 0.3 | |

BALDWIN LAKE C23C JULY 29 1976 AIR TEMP 15C SECCHI 2.6M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 16.8 | 8.6 | 98. | 5.8 | 30. | 40 | 0.48 | 13.0 |
| 1.0 | 16.8 | | | 5.8 | 30. | 40 | 0.74 | 11.2 |
| 2.0 | 16.8 | | | 5.8 | 30. | 50 | 0.75 | 9.8 |
| 3.0 | 15.8 | 8.8 | 100. | 5.8 | 30. | 40 | 0.85 | 11.8 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.9 | 0.8 | 2.6 |
| 1.0 | 1.5 | 1.5 | 1.5 |
| 2.0 | 1.7 | 1.2 | 1.2 |
| 3.0 | 1.9 | 1.9 | 2.5 |

continued,

Table 13, cont.

BALDWIN LAKE C23C AUGUST 9 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | 5.6 | 41. | 50 | 0.27 | 18.1 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.3 | 1.4 | 1.6 |

Table 14. Limnological measurements in Twin Lake, No. 2, C23d, C.B.H.National Park.

TWIN LAKE NO.2 C23D NOVEMBER 26 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 1.5 | | | 5.3 | 40. | 35 | 0.60 | 4.2 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 2.9 | 0.1 | |

TWIN LAKE NO.2 C23D JULY 29 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 18.0 | 9.2 | 106. | 5.8 | 31. | 30 | 0.64 | 8.3 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.4 | 1.3 | 0.8 |

continued,

Table 14 , cont.

TWIN LAKE NO.2 C23D AUGUST 9 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | 5.4 | 37. | 50 | 0.28 | 3.6 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.5 | 0.3 | 2.2 |

Table 15. Limnological measurements in Burton Lake C24a, C.B.H. National Park.

BURTON LAKE C24A NOVEMBER 25 1975 UNDER ICE

| DEPTH M | TEMP. C | DISSOLVED OXYGEN MG/L | DISSOLVED OXYGEN %SAT'N | PH | CONDUCTANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBIDITY APHA UNITS | TOTAL PHOSPHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 1.5 | | | 5.2 | 40. | 60 | 0.50 | 7.9 |

| DEPTH M | CHLOROPHYLL A MG/M3 | PHAEOPHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.3 | 0.3 | |

BURTON LAKE C24.A AUGUST 9 1976

| DEPTH M | TEMP. C | DISSOLVED OXYGEN MG/L | DISSOLVED OXYGEN %SAT'N | PH | CONDUCTANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBIDITY APHA UNITS | TOTAL PHOSPHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | 5.2 | 37. | 50 | 0.47 | 6.6 |

| DEPTH M | CHLOROPHYLL A MG/M3 | PHAEOPHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.1 | 1.2 | 1.9 |

Table 16 . Limnological measurements in Glasgow Lake C24g, C.B.H. National Park.

GLASGOW LAKE C24G APRIL 15 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 2.0 | | | 4.6 | 43. | 60 | 0.19 | |

GLASGOW LAKE C24G NOVEMBER 25 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 1.8 | | | 5.0 | 32. | 50 | 0.60 | 5.2 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.5 | 0.2 | |

GLASGOW LAKE C24G AUGUST 9 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | 5.1 | 26. | 40 | 0.31 | 9.5 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.4 | 0.6 | 1.4 |

continued,

Table 16 , cont.

GLASGOW LAKE C24G OCTOBER 8 1976 AIR TEMP 15C SECCHI 2.8M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 11.4 | 10.2 | 102. | 5.5 | 23. | 45 | 0.68 | 6.2 |
| 2.0 | | | | 5.4 | 23. | 45 | 0.69 | 6.4 |
| 4.0 | | | | 5.3 | 23. | 45 | 0.78 | 5.8 |
| 5.0 | 11.3 | | | 5.2 | 23. | 45 | 0.66 | 6.4 |
| 6.0 | 11.3 | 10.0 | 99. | 5.3 | 23. | 45 | 0.71 | 6.4 |
| 7.0 | | | | 5.2 | 23. | 45 | 0.63 | 5.6 |
| 9.0 | | | | 5.2 | 23. | 45 | 0.70 | 6.1 |
| 12.0 | 11.0 | 10.2 | 101. | 5.2 | 23. | 45 | 0.81 | 5.0 |
| 13.2 | 11.0 | 9.4 | 92. | 5.2 | 24. | 50 | 1.10 | 5.9 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | | | 0.8 |
| 2.0 | 0.9 | 0.5 | |
| 4.0 | 1.0 | 0.9 | 1.0 |
| 5.0 | 1.0 | 0.8 | |
| 6.0 | 0.8 | 0.3 | |
| 7.0 | 1.0 | 0.4 | 1.2 |
| 9.0 | 0.7 | 0.6 | |
| 12.0 | 0.5 | 0.5 | 2.4 |
| 13.2 | 0.7 | 0.7 | 1.8 |

Table 17 . Limnological measurements in Paquette Lake C24.2.1a, C.B.H. National Park,

PAQUETTE LAKE C25.2.1A NOVEMBER 25 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 1.0 | | | 6.5 | 60. | 40 | 0.50 | 10.7 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.6 | 0.2 | |

PAQUETTE LAKE C25.2.1A JUNE 30 1976 AIR TEMP 20C SECCHI BOTTOM

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 18.6 | 9.0 | 103. | 6.9 | 50. | 45 | 0.60 | 13.1 |
| 1.0 | 18.5 | 9.0 | 103. | 6.8 | 51. | 45 | 0.70 | 10.5 |
| 1.2 | 18.2 | 8.8 | 101. | 6.8 | 51. | 45 | 0.75 | 13.1 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.1 | 0.4 | 3.5 |
| 1.0 | 1.2 | 0.2 | 6.3 |
| 1.2 | 1.4 | 0.3 | 5.9 |

continued,

Table 17, cont.

PAQUETTE LAKE C25.2.1A JULY 21 1976 AIR TEMP 24C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 21.0 | 8.0 | 95. | 7.2 | 63. | 30 | 0.54 | 9.1 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.4 | 0.4 | 6.1 |

PAQUETTE LAKE C25.2.1A AUGUST 3 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 21.0 | | | 7.2 | 67. | 30 | 0.47 | 9.1 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.4 | 0.6 | |

continued,

Table 17 , cont.

PAQUETTE LAKE C25.2.1A AUGUST 9 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | 7.3 | | 35 | 0.65 | 9.5 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.9 | 0.6 | 6.7 |

PAQUETTE LAKE C25.2.1A AUGUST 18 1976 AIR TEMP 14C SECCHI BOTTOM

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 17.8 | 9.5 | 108. | 7.3 | 59. | 25 | 1.00 | 9.5 |
| 1.0 | 17.8 | 9.2 | 104. | 7.2 | 62. | 25 | 1.00 | 11.4 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.8 | 0.5 | 5.8 |
| 1.0 | 0.8 | 0.7 | 6.3 |

continued,

Table 17 , cont.

PAQUETTE LAKE C25.2.1A SEPTEMBER 3 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 15.4 | 9.6 | 102. | 7.4 | 56. | 20 | 0.95 | 9.1 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.7 | 1.4 | |

PAQUETTE LAKE C25.2.1A SEPTEMBER 23 1976 AIR TEMP 20C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 19.0 | 9.8 | 100. | 6.9 | 54. | 30 | 0.58 | 7.6 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.1 | 1.6 | 4.2 |

continued,

Table 17, cont.

PAQUETTE LAKE C25.2.1A OCTOBER 21 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 4.5 | 12.0 | 99. | 6.8 | 49. | 70 | 3.30 | 18.5 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.8 | 8.4 | 4.3 |

Table 18. Limnological measurements in Mica Hill Lake C33.3b, C.B.H. National Park.

MICA HILL LAKE C33.3B NOVEMBER 25 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 2.0 | | | 4.8 | 54. | 70 | 0.50 | 5.9 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.1 | 0.2 | |

MICA HILL LAKE C33.3B OCTOBER 8 1976 AIR TEMP 15C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 14.5 | 9.4 | 99. | 5.5 | 34. | 90 | 0.61 | 7.7 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.6 | 2.4 | 2.6 |

Table 19 . Limnological measurements in Daisley's Lake C33.3d, C.B.H. National Park.

DAISLEY'S LAKE C33.3D OCTOBER 8 1976 AIR TEMP 15C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 13.0 | 11.0 | 113. | 6.1 | 31. | 90 | 0.44 | 8.9 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.8 | 3.9 | 2.2 |

Table 20. Limnological measurements in Long Lake C33a, C.B.H. National Park.

LONG LAKE C33A APRIL 15 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 2.0 | | | 4.2 | 86. | 70 | 0.16 | |

LONG LAKE C33A OCTOBER 6 1976 AIR TEMP 16C SECCHI BOTTOM

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 12.3 | 10.4 | 106. | 5.2 | 29. | 110 | 0.37 | 8.8 |
| 1.4 | 12.0 | 10.4 | 105. | 5.2 | 30. | 110 | 0.45 | 9.6 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.9 | 0.6 | |
| 1.4 | 0.2 | 0.5 | 2.5 |

Table 21. Limnological measurements in Round Lake C33b, C.B.H. National Park.

ROUND LAKE C33B APRIL 15 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 2.0 | | | 4.8 | 49. | 70 | 0.24 | |

ROUND LAKE C33B NOVEMBER 27 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 1.5 | | | 4.8 | 50. | 70 | 0.70 | 12.6 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.4 | 0.9 | |

ROUND LAKE C33B AUGUST 9 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 19.0 | | | 5.2 | 38. | 70 | 0.36 | 12.6 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.5 | 1.0 | 1.2 |

continued,

Table 21 , cont.

ROUND LAKE C338 SEPTEMBER 22 1976 AIR TEMP 18C SECCHI BOTTOM

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SATN | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 16.8 | 8.4 | 94. | 5.5 | 29. | 65 | 0.27 | 9.4 |
| 2.0 | 16.8 | 9.2 | 103. | 5.5 | 29. | 65 | 0.37 | 9.1 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.6 | 0.9 | 0.9 |
| 2.0 | 0.4 | 0.9 | 0.7 |

Table 22 . Limnological measurements in Lake C33d, C.B.H. National Park.

LAKE C33D OCTOBER 5 1976 AIR TEMP 16C SECCHI BOTTOM

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SATN | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 10.2 | 11.2 | 108. | 5.2 | 26. | 75 | 0.55 | 7.1 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.3 | 1.5 | 2.7 |

Table 23 . Limnological measurements in Lobster Lake C33e, C.B.H. National Park.

LOBSTER LAKE C33E OCTOBER 5 1976 AIR TEMP 16C SECCHI BOTTOM

| DEPTH M | TEMP. C | DISSOLVED OXYGEN MG/L | DISSOLVED OXYGEN %SAT'N | PH | CONDUCTANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBIDITY APHA UNITS | TOTAL PHOSPHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 10.0 | 11.2 | 108. | 5.1 | 26. | 75 | 0.42 | 8.0 |
| 1.0 | 10.0 | | | 5.1 | 25. | 75 | 0.42 | 9.7 |
| 2.0 | 11.2 | 10.3 | 102. | 5.4 | 25. | 75 | 0.41 | 8.6 |

| DEPTH M | CHLOROPHYLL A MG/M3 | PHAEOPHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.3 | 0.4 | 2.8 |
| 1.0 | 0.3 | 0.4 | |
| 2.0 | 0.4 | 0.4 | 1.2 |

Table 24 . Limnological measurements in Five Island Lake No. 2, C33g, C.B.H. National Park.

FIVE ISLAND LAKE NO.2 C33G OCTOBER 5 1976 AIR TEMP 16C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 10.0 | 11.2 | 108. | 5.4 | 19. | 8 | 0.33 | 3.6 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.6 | 2.2 | 2.3 |

Table 25. Limnological measurements in Five Island Lake, No. 1, C33h, C.B.H. National Park.

FIVE ISLAND LAKE NO.1 C33H NOVEMBER 27 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 1.5 | | | 5.0 | 40. | 40 | 0.60 | 9.7 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.3 | 0.3 | |

FIVE ISLAND LAKE NO.1 C33H AUGUST 9 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | 4.9 | 38. | 50 | 0.37 | 10.9 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.0 | 0.4 | 2.3 |

Table 26. Limnological measurements in Jigging Cove Lake C34a, C.B.H.National Park.

JIGGING COVE LAKE C34A JUNE 27 1975 AIR TEMP 25C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | 5.5 | 68 | 80 | 0.18 | 9.3 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.8 | 1.8 | |

JIGGING COVE LAKE C34A MARCH 11 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | 5.5 | 96. | 140 | 0.19 | |

JIGGING COVE LAKE C34A NOV 25 1975

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 2.5 | | | 5.2 | 33. | 75 | 0.60 | 7.1 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.3 | 0.5 | |

continued,

Table 26 , cont.

JIGGING COVE LAKE C34A JAN 14 1976 ICE 0.5M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.5 | 1.5 | 1.2 | 8 | 4.9 | 87 | 80 | 0.72 | 8.1 |
| 1.0 | 3.0 | 1.0 | 7 | 5.0 | 95 | 80 | 0.34 | 7.6 |
| 1.3 | 3.7 | | | 5.1 | | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.5 | 1.0 | 0.0 | 3.4 |
| 1.0 | 0.6 | 0.3 | 4.4 |

JIGGING COVE LAKE C34A FEB 19 1976 ICE 0.5M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.5 | 0.8 | 8.0 | 58 | 5.1 | 31 | 50 | 0.55 | 5.8 |
| 1.0 | 2.8 | 3.3 | 25 | 5.0 | 146 | 120 | 0.27 | 6.0 |
| 1.5 | 3.7 | 2.1 | 16 | | | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.5 | 0.6 | 1.0 | 7.1 |
| 1.0 | 0.4 | 1.3 | 7.2 |

continued,

Table 26 , cont.

JIGGING COVE LAKE C34A MARCH 24 1976 AIR TEMP 1C ICE 0.7M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.7 | 0.5 | 11.6 | 83 | 5.3 | 43 | 25 | 0.70 | 9.3 |
| 1.0 | 1.0 | 11.6 | 84 | 5.4 | 48 | 25 | 0.52 | 13.4 |
| 1.8 | 1.3 | 11.5 | 85 | 5.4 | 91 | 50 | 0.47 | 12.4 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.7 | 1.4 | 0.4 | |
| 1.0 | 0.9 | 0.3 | |
| 1.8 | 0.8 | 0.7 | 2.9 |

JIGGING COVE LAKE C34A MAY 4 1976 AIR TEMP 18C AT TRAIL

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 11.0 | 11.2 | 105 | 5.3 | 75 | 90 | 0.42 | 10.6 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.6 | 0.6 | 1.3 |

continued,

Table 26 , cont.

JIGGING COVE LAKE C34A MAY 4 1976 AIR TEMP 18C AT DAM

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 11.0 | 10.9 | 103 | 5.3 | 75 | 80 | 1.2 | 12.3 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | | 1.4 | 0.9 |

JIGGING COVE LAKE C34A MAY 27 1976 AIR TEMP 7C AT TRAIL

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 11.1 | | | 5.5 | 78 | 120 | 1.0 | 46.5 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.5 | 0.6 | 1.3 |

continued,

Table 26 , cont.

JIGGING COVE LAKE C34A MAY 27 1976 AIR TEMP 7C AT DAM

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 13.3 | | | 5.3 | 71 | 100 | 0.68 | 17.6 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.0 | 0.4 | 1.3 |

JIGGING COVE LAKE C34A JUNE 25 1976 AIR TEMP 16C SECCHI BOTTOM

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 21.5 | 7.8 | 91. | 5.0 | 74. | 100 | 0.34 | 12.8 |
| 1.0 | 21.5 | 7.5 | 87. | 5.0 | 74. | 100 | 0.42 | 14.2 |
| 1.1 | 21.5 | | | | | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.8 | 1.1 | 2.2 |
| 1.0 | 1.3 | 0.7 | 1.7 |

continued,

Table 26 , cont.

JIGGING COVE LAKE C34A JULY 14 1976 AIR TEMP 16C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 16.0 | 9.0 | 94. | 5.0 | 88. | 90 | 0.15 | 9.2 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.9 | 1.1 | |

JIGGING COVE LAKE C34A JULY 27 1976 AIR TEMP 20C SECCHI BOTTOM

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 23.4 | 8.8 | 105. | 5.2 | 78. | 70 | 0.32 | 8.2 |
| 0.5 | 21.9 | 8.5 | 100. | 5.2 | 82. | | | |
| 1.0 | 19.5 | 8.2 | 92. | 5.2 | 82. | 70 | 0.38 | 9.2 |
| 1.5 | 19.2 | 8.2 | 91. | 5.1 | 83. | 70 | 0.37 | 9.4 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | | | 2.6 |
| 1.0 | 1.0 | 0.8 | 2.8 |
| 1.5 | 0.3 | 2.6 | 2.1 |

continued,

Table 26 , cont.

JIGGING COVE LAKE C34A AUGUST 9 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 24.0 | | | 4.9 | 87. | 90 | 0.14 | 9.1 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.5 | 0.7 | 2.1 |

JIGGING COVE LAKE C34A AUGUST 19 1976 AIR TEMP 16C SECCHI BOTTOM

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 17.9 | 8.6 | 94. | 5.4 | 83. | 45 | 0.20 | 9.5 |
| 1.0 | 17.9 | 8.7 | 95. | 5.4 | 83. | 45 | 0.24 | 10.6 |
| 1.3 | 17.0 | 8.7 | 93. | 5.3 | 84. | 45 | 0.25 | 11.4 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.3 | 0.8 | 1.1 |
| 1.0 | 0.3 | 1.0 | 1.1 |
| 1.3 | 0.4 | 0.8 | |

continued,

Table 26, cont.

JIGGING COVE LAKE C34A SEPTEMBER 4 1976 AIR TEMP 14C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 14.8 | 8.3 | 85. | 5.3 | 81. | 40 | 0.22 | 10.0 |
| 1.0 | 14.6 | 8.2 | 84. | 5.3 | 81. | 40 | 0.24 | 12.4 |
| 1.4 | 14.5 | 8.1 | 82. | 5.3 | 81. | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 2.3 | 0.0 | 1.2 |
| 1.0 | 0.4 | 0.6 | 1.0 |

JIGGING COVE LAKE C34A SEPTEMBER 8 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 17.5 | | | | | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.7 | 2.0 | 1.1 |

continued,

Table 26 , cont.

JIGGING COVE LAKE C34A SEPTEMBER 23 1976 AIR TEMP 20C

| DEPTH M | TEMP. C | DISSOLVED OXYGEN MG/L | DISSOLVED OXYGEN %SAT'N | PH | CONDUCTANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBIDITY APHA UNITS | TOTAL PHOSPHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 18.4 | 8.8 | 98. | 5.7 | 57. | 45 | 0.27 | 7.7 |
| 1.0 | 18.4 | 8.7 | 96. | 5.6 | 56. | 45 | 0.22 | 19.5 |
| 1.5 | 18.4 | 8.7 | 96. | 5.6 | 57. | 45 | 0.25 | 26.7 |

| DEPTH M | CHLOROPHYLL A MG/M3 | PHAEOPHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.2 | 0.9 | 1.6 |
| 1.0 | 0.2 | 0.9 | |
| 1.5 | 0.3 | 1.0 | 1.5 |

JIGGING COVE LAKE C34A OCTOBER 27 1976

| DEPTH M | TEMP. C | DISSOLVED OXYGEN MG/L | DISSOLVED OXYGEN %SAT'N | PH | CONDUCTANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBIDITY APHA UNITS | TOTAL PHOSPHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 6.0 | | | 4.9 | 113. | 200 | 0.42 | 12.0 |

| DEPTH M | CHLOROPHYLL A MG/M3 | PHAEOPHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.6 | 2.2 | 3.2 |

continued,

Table 26, cont.

JIGGING COVE LAKE C34A NOVEMBER 24 1976 AIR TEMP 2C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 1.8 | | | 5.2 | 68. | 120 | 0.65 | 10.0 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.3 | 0.4 | 1.5 |

JIGGING COVE LAKE C34A DECEMBER 14 1976 AIR TEMP -10C ICE 0.15M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.2 | 1.0 | 12.6 | 92. | 4.9 | 64. | 100 | 0.34 | 7.1 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.2 | 0.4 | 0.4 | 3.0 |

continued,

Table 26 , cont.

JIGGING COVE LAKE C34A JANUARY 14 1977 AIR TEMP -11C ICE 0.46M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.5 | 0.4 | 14.8 | 106. | 4.0 | 70. | 70 | 0.35 | 11.2 |
| 0.6 | 0.5 | 14.0 | 101. | 4.0 | 72. | | | |
| 0.8 | 0.9 | 12.4 | 90. | 4.3 | 94. | | | |
| 1.0 | 1.8 | 10.0 | 74. | 4.5 | 122. | 70 | 0.36 | 10.1 |
| 1.6 | 3.8 | 6.1 | 48. | 4.9 | 172. | 70 | 0.33 | 9.2 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.5 | 3.9 | 1.0 | 5.4 |
| 1.0 | 3.4 | 1.1 | 4.8 |
| 1.6 | 1.8 | 1.1 | 5.5 |

JIGGING COVE LAKE C34A FEB 3 1977 AIR TEMP -7C ICE 0.62M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.7 | 0.9 | 12.5 | 90. | 4.2 | 64. | 80 | 0.38 | 10.0 |
| 0.8 | 1.1 | 11.3 | 82. | 4.1 | 71. | | | |
| 1.0 | 1.7 | 11.3 | 84. | 4.5 | 106. | 80 | 0.35 | 9.1 |
| 1.3 | 2.6 | 7.9 | 60. | 4.9 | 150. | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.7 | 2.0 | 1.0 | 6.6 |
| 1.0 | 2.0 | 0.9 | 7.2 |

continued,

Table 26, cont.

JIGGING COVE LAKE C34A MARCH 2 1977 AIR TEMP -3C ICE 0.80M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.8 | 0.7 | 6.0 | 43. | 4.2 | 98. | 70 | 0.40 | 10.9 |
| 1.0 | 1.1 | 6.6 | 48. | 4.3 | | | | |
| 1.4 | 3.0 | 3.8 | 29. | 4.7 | 98. | 70 | 0.34 | 10.2 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.8 | 1.0 | 1.2 | 9.3 |
| 1.4 | 1.0 | 1.3 | 9.7 |

Table 27 . Limnological measurements in Broad Cove Mountain Lake, C36.1.2a, C.B.H. National Park.

BROAD COVE MOUNTAIN LAKE C36.1.2A NOVEMBER 25 1975

| DEPTH M | TEMP. C | DISSOLVED OXYGEN MG/L | DISSOLVED OXYGEN %SAT'N | PH | CONDUCTANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBIDITY APHA UNITS | TOTAL PHOSPHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 2.5 | | | 5.9 | 38. | 10 | 0.30 | 3.0 |

| DEPTH M | CHLOROPHYLL A MG/M3 | PHAEOPHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.2 | 0.1 | |

BROAD COVE MOUNTAIN LAKE C36.1.2A AUGUST 9 1976

| DEPTH M | TEMP. C | DISSOLVED OXYGEN MG/L | DISSOLVED OXYGEN %SAT'N | PH | CONDUCTANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBIDITY APHA UNITS | TOTAL PHOSPHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 22.0 | | | 6.3 | 38. | 5 | 0.18 | 12.9 |

| DEPTH M | CHLOROPHYLL A MG/M3 | PHAEOPHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.9 | 0.3 | 1.9 |

Table 28 . Limnological measurements in Brown's Lake C36.1.3b, C.B.H. National Park.

BROWN'S LAKE C36.1.3B NOVEMBER 25 1975 UNDER ICE

| DEPTH M | TEMP. C | DISSOLVED OXYGEN MG/L | DISSOLVED OXYGEN %SAT'N | PH | CONDUCTANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBIDITY APHA UNITS | TOTAL PHOSPHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 1.8 | | | 4.7 | 64. | 110 | 0.60 | 7.0 |

| DEPTH M | CHLOROPHYLL A MG/M3 | PHAEOPHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.4 | 0.4 | |

BROWN'S LAKE C36.1.3B AUGUST 9 1976

| DEPTH M | TEMP. C | DISSOLVED OXYGEN MG/L | DISSOLVED OXYGEN %SAT'N | PH | CONDUCTANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBIDITY APHA UNITS | TOTAL PHOSPHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 21.0 | | | 4.8 | 59. | 100 | 0.81 | 7.6 |

| DEPTH M | CHLOROPHYLL A MG/M3 | PHAEOPHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.3 | 0.5 | 2.9 |

Table 29 . Limnological measurements in Rudderham Lake C36.1.5a, C.B.H. National Park.

RUDDERHAM LAKE C36.1.5A NOVEMBER 25 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 2.2 | | | 4.8 | 40. | 60 | 0.80 | 5.8 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 2.1 | 0.2 | |

RUDDERHAM LAKE C36.1.5A AUGUST 9 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | 5.2 | 35. | 50 | 0.37 | 7.1 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.5 | 0.6 | 1.8 |

Table 30 . Limnological measurements in Branch Pond C36.1b, C.B.H. National Park.

BRANCH POND C36.1B MARCH 10 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | 5.1 | 35. | 50 | 0.75 | |

BRANCH POND C36.1B NOVEMBER 25 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 2.0 | | | 4.7 | 54. | 90 | 0.50 | 6.1 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.2 | 0.2 | |

continued,

Table 30 , cont.

BRANCH POND C36.1B MARCH 10 1976 UNDER ICE

| DEPTH M | TEMP. C | DISSOLVED OXYGEN MG/L | DISSOLVED OXYGEN %SAT'N | PH | CONDUCTANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBIDITY APHA UNITS | TOTAL PHOSPHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | 4.6 | 54. | | | 18.6 |
| 2.0 | | | | 4.9 | | | | 15.1 |
| 4.0 | | | | 4.1 | 38. | | | 28.7 |

| DEPTH M | CHLOROPHYLL A MG/M3 | PHAEOPHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.0 | 0.1 | |
| 2.0 | 0.0 | 0.2 | |
| 4.0 | 0.0 | 0.1 | |

BRANCH POND C36.1B JULY 1 1976 AIR TEMP 12C SECCHI 2.4M

| DEPTH M | TEMP. C | DISSOLVED OXYGEN MG/L | DISSOLVED OXYGEN %SAT'N | PH | CONDUCTANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBIDITY APHA UNITS | TOTAL PHOSPHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 17.7 | 8.7 | 99. | 4.4 | 28. | 80 | 0.35 | 5.8 |
| 1.0 | 17.7 | 8.6 | 98. | 4.4 | 28. | 80 | 0.45 | 9.0 |
| 2.0 | 17.7 | 8.6 | 98. | 4.4 | 28. | 80 | 0.55 | 9.1 |
| 3.0 | 17.6 | 8.5 | 97. | 4.4 | 28. | 80 | 0.55 | 7.0 |
| 4.0 | 16.4 | 7.7 | 85. | 4.4 | 28. | 80 | 0.65 | 8.8 |
| 5.0 | 15.2 | 7.3 | 78. | 4.4 | 28. | 80 | 0.60 | 8.5 |
| 5.5 | 11.3 | 5.6 | 55. | 4.8 | 28. | | | |
| 6.0 | 11.8 | 6.5 | 64. | 4.8 | 28. | 80 | 0.55 | 11.0 |

| DEPTH M | CHLOROPHYLL A MG/M3 | PHAEOPHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.4 | 0.7 | 1.5 |
| 1.0 | 0.6 | 0.6 | 1.4 |
| 2.0 | 0.4 | 0.6 | 1.5 |
| 3.0 | 0.5 | 0.6 | 1.2 |
| 4.0 | 0.3 | 0.9 | 1.5 |
| 5.0 | 0.3 | 0.1 | 1.9 |
| 6.0 | 0.4 | 0.1 | 1.8 |

continued,

Table 30 , cont.

BRANCH POND C36.1B JULY 20 1976 AIR TEMP 22C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 21.8 | 8.7 | 108. | 5.2 | 32. | 60 | 0.27 | 6.1 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.5 | 0.5 | 1.9 |

BRANCH POND C36.1B AUGUST 6 1976 AIR TEMP 24C SECCHI 3.0M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 19.8 | 8.9 | 101. | 4.7 | 28. | 65 | 0.28 | 8.4 |
| 1.0 | 19.3 | 8.9 | 100. | 4.7 | 28. | 60 | 0.31 | 9.1 |
| 2.0 | 19.0 | 8.8 | 98. | 4.7 | 28. | 60 | 0.39 | 8.4 |
| 3.0 | 18.8 | 8.8 | 98. | 4.7 | 28. | 60 | 0.39 | 8.0 |
| 3.5 | 18.7 | 8.7 | 97. | 4.6 | | | | |
| 4.0 | 17.4 | 8.1 | 87. | 4.6 | 28. | 60 | 0.33 | 6.4 |
| 4.5 | 17.2 | 7.8 | 84. | 4.6 | | | | |
| 5.0 | 17.0 | 7.7 | 82. | 4.6 | 29. | 60 | 0.28 | 5.9 |
| 6.0 | 16.6 | 7.4 | 78. | 4.6 | 29. | 60 | 0.37 | 7.9 |
| 6.7 | 14.7 | 3.4 | 35. | 4.8 | 32. | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.7 | 0.5 | 1.4 |
| 1.0 | 0.6 | 0.5 | |
| 2.0 | 0.9 | 0.4 | |
| 3.0 | 0.9 | 0.4 | 0.8 |
| 4.0 | 0.8 | 0.5 | |
| 5.0 | 0.5 | 0.6 | |
| 6.0 | 0.6 | 0.6 | 2.2 |

continued,

Table 30 , cont.

BRANCH POND C36.1B AUGUST 9 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 20.0 | | | 5.2 | 31. | | 0.23 | 6.4 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.5 | 1.4 | 1.5 |

BRANCH POND C36.1B AUGUST 24 1976 AIR TEMP 16C SECCHI 2.6M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 19.4 | 9.1 | 106. | 5.1 | 28. | 50 | 0.24 | 7.6 |
| 1.0 | 19.3 | 9.1 | 106. | 5.1 | 28. | 50 | 0.18 | 7.4 |
| 2.0 | 19.2 | 9.0 | 104. | 5.1 | 28. | 50 | 0.37 | 8.6 |
| 3.0 | 19.2 | 9.0 | 104. | 5.0 | 28. | 50 | 0.29 | 9.5 |
| 4.0 | 19.2 | 8.9 | 104. | 5.0 | 28. | 50 | 0.27 | 7.2 |
| 5.0 | 19.2 | 8.9 | 104. | 5.0 | 28. | 50 | 0.31 | 6.6 |
| 6.0 | 18.8 | 8.8 | 101. | 5.0 | 28. | 50 | 0.46 | 4.7 |
| 6.7 | 17.0 | 7.1 | 78. | 5.0 | 28. | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.5 | 0.6 | 1.0 |
| 1.0 | 0.6 | 0.4 | |
| 2.0 | 0.5 | 0.6 | |
| 3.0 | 0.5 | 0.6 | 2.2 |
| 4.0 | 0.6 | 0.6 | |
| 5.0 | 0.6 | 0.5 | |
| 6.0 | 0.5 | 0.5 | 1.7 |

Table 31 . Limnological measurements in Sunday Lake C36.13a, C.B.H. National Park.

SUNDAY LAKE C36.13A NOVEMBER 26 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 1.8 | | | 4.9 | 59. | 100 | 1.20 | 8.9 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.4 | 0.8 | |

SUNDAY LAKE C36.13A AUGUST 9 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 19.5 | | | 6.2 | 35. | 90 | 0.70 | 22.8 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.3 | 1.6 | 3.0 |

Table 32 . Limnological measurements in Wreck Beach Pond C36A.a, C.B.H. National Park.

WRECK BEACH POND C36A.A SURFACE SAMPLES

| DATE 1976 | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 27.07 | 26.0 | 9.2 | 115. | 6.7 | 3200. | 35 | 0.18 | 6.8 |
| 03.08 | 23.0 | | | 6.8 | 1960. | 35 | 0.26 | 6.9 |
| 18.08 | 19.8 | 11.0 | 124. | 7.2 | 2680. | 30 | 0.46 | 6.1 |
| 03.09 | 16.3 | 9.5 | 100. | 7.0 | 1700. | 2 | 0.38 | 8.9 |
| 13.09 | 15.5 | 9.5 | 98. | 6.3 | 900. | 45 | 0.38 | 8.6 |
| 23.09 | 19.7 | 9.4 | 106. | 6.3 | 810. | 45 | 0.42 | 10.9 |
| 13.10 | 11.0 | 10.6 | 99. | 6.2 | 318. | 75 | 0.47 | 6.5 |
| 25.10 | 6.0 | 10.8 | 90. | 5.0 | 196. | 140 | 0.70 | 8.6 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 27.07 | 0.4 | 0.5 | 3.5 |
| 03.08 | 1.6 | 1.5 | |
| 18.08 | 0.5 | 0.8 | 1.7 |
| 03.09 | 0.6 | 0.8 | |
| 13.09 | 0.5 | 1.7 | 1.8 |
| 23.09 | 1.8 | 2.5 | 2.1 |
| 13.10 | 3.2 | 11.3 | 2.9 |
| 25.10 | 0.7 | 2.2 | 2.6 |

Table 33 . Limnological measurements in Lake (36B)a, C.B.H. National Park.

LAKE C36B.A AUGUST 3 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SATN | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0 | 0.5 | 1.1 | |

Table 34 . Limnological measurements in Warren Lake C38a, C.B.H. National Park.

WARREN LAKE C38A SEPTEMBER 26 1974

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 14.0 | | | 5.3 | 30 | 35 | 0.21 | 3.5 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.3 | 0.1 | |

WARREN LAKE C38A MARCH 10 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | 5.8 | 43. | 40 | 0.14 | |

WARREN LAKE C38A JUNE 27 1975 AIR TEMP 25C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 23.0 | | | 6.4 | 29 | 50 | 0.26 | 7.8 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.7 | 0.4 | |

continued,

Table 34 , cont.

WARREN LAKE C38A NOVEMBER 25 1975

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 5.5 | | | 5.8 | 34. | 60 | 0.50 | 4.9 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.2 | 0.2 | |

WARREN LAKE C38A JAN 14 1976 ICE 0.5M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.5 | 1.2 | 16.7 | 122 | 5.5 | 42. | 50 | 0.16 | 4.8 |
| 1.0 | 1.1 | 15.3 | 112 | 5.5 | | | | |
| 2.0 | 2.0 | 14.9 | 112 | 5.6 | 41. | 55 | 0.30 | 5.5 |
| 5.0 | 2.0 | 14.6 | 109 | 5.5 | | | | |
| 8.0 | 1.5 | 14.6 | 107 | 5.5 | | | | |
| 10.0 | 2.0 | 14.2 | 106 | 5.5 | 38. | 50 | 0.18 | 5.4 |
| 15.0 | 2.5 | 13.8 | 105 | 5.5 | 38. | 60 | 0.35 | 6.2 |
| 18.2 | 2.5 | 14.0 | 106 | 5.5 | | | | |
| 30.0 | | 13.0 | | 5.7 | 38. | 60 | 0.34 | 17.9 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.5 | 0.5 | 0.0 | 3.8 |
| 2.0 | 0.4 | 0.0 | 4.4 |
| 10.0 | 0.2 | 0.1 | 4.4 |
| 15.0 | 0.1 | 0.1 | 4.6 |
| 30.0 | 0.5 | 2.8 | 5.6 |

continued,

Table 34, cont.

WARREN LAKE C38A FEB 17 1976 ICE 0.4M

| DEPTH M | TEMP. C | DISSOLVED OXYGEN MG/L | DISSOLVED OXYGEN %SAT'N | PH | CONDUCTANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBIDITY APHA UNITS | TOTAL PHOSPHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.4 | 0.2 | 15.6 | 111 | 5.4 | 37 | 50 | 0.10 | 5.2 |
| 1.0 | 0.5 | 14.5 | 105 | 5.4 | | | | |
| 2.0 | 0.8 | 14.1 | 103 | 5.4 | 35 | 50 | 0.13 | 6.3 |
| 3.0 | 1.1 | 13.8 | 101 | 5.2 | | | | |
| 4.0 | 1.1 | 13.7 | 100 | 5.2 | | | | 5.8 |
| 5.0 | 1.2 | 13.6 | 100 | 5.2 | | | | |
| 6.0 | 1.3 | 13.5 | 99 | 5.2 | 33 | 50 | 0.11 | 6.0 |
| 10.0 | 1.5 | 13.3 | 98 | 5.2 | 34 | 60 | 0.21 | 6.5 |
| 15.0 | 1.8 | 13.0 | 97 | 5.2 | | | | 5.7 |
| 19.0 | 2.0 | 12.7 | 95 | 5.4 | | | | |
| 20.0 | 2.2 | 12.6 | 95 | 5.6 | 38 | 60 | 0.17 | 4.2 |
| 22.0 | 2.6 | 11.6 | 89 | | | | | |
| 25.0 | 3.0 | 11.1 | 86 | | | | | 4.5 |
| 27.0 | 3.1 | 9.1 | 70 | | | | | |
| 28.0 | 3.2 | 8.4 | 65 | 5.7 | 36 | 60 | 0.20 | 5.7 |

| DEPTH M | CHLOROPHYLL A MG/M3 | PHAEOPHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.4 | 0.2 | 0.0 | 1.5 |
| 2.0 | 0.1 | 0.0 | 1.4 |
| 4.0 | 0.1 | 0.0 | |
| 6.0 | 0.1 | 0.0 | |
| 10.0 | 0.1 | 0.0 | 1.2 |
| 15.0 | 0.1 | 0.0 | |
| 20.0 | 0.0 | 0.8 | 1.4 |
| 28.0 | 0.1 | 0.0 | 1.3 |

continued,

Table 34, cont.

WARREN LAKE C38A MARCH 24 1976 AIR TEMP 2C ICE 0.5M

| DEPTH M | TEMP. C | DISSOLVED OXYGEN MG/L | DISSOLVED OXYGEN %SATN | PH | CONDUCTANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBIDITY APHA UNITS | TOTAL PHOSPHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.5 | 0.2 | 13.6 | 98 | 5.2 | 31 | 50 | 0.31 | 8.5 |
| 1.0 | 0.5 | 13.3 | 96 | 5.2 | | | | |
| 2.0 | 0.7 | 13.1 | 95 | 5.1 | 31 | 50 | 0.36 | 10.7 |
| 3.0 | 0.7 | 13.0 | 94 | 5.1 | | | | |
| 5.0 | 0.9 | 12.8 | 93 | 5.3 | 35 | 50 | 0.24 | 11.6 |
| 7.0 | 1.0 | 12.6 | 92 | 5.2 | | | | |
| 10.0 | 1.2 | 12.4 | 91 | 5.3 | 36 | 50 | 0.23 | 3.9 |
| 15.0 | 1.5 | 12.1 | 90 | 5.3 | 37 | 50 | 0.22 | 6.0 |
| 20.0 | 1.8 | 11.8 | 88 | 5.4 | 35 | 50 | 0.32 | 5.5 |
| 25.0 | 2.6 | 12.5 | 95 | | | | | |
| 28.0 | 3.2 | 11.6 | 90 | 5.7 | 36 | 50 | 0.31 | 4.7 |
| 29.0 | 3.4 | 12.2 | 95 | | | | | |

| DEPTH M | CHLOROPHYLL A MG/M3 | PHAEOPHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.5 | 0.1 | 0.0 | |
| 2.0 | 0.0 | 0.1 | |
| 5.0 | 0.0 | 0.0 | |
| 10.0 | 0.2 | 0.0 | |
| 15.0 | 0.2 | 0.0 | |
| 20.0 | 0.2 | 0.0 | |
| 28.0 | 0.2 | 0.0 | |

continued,

Table 34, cont.

WARREN LAKE C38A MAY 6 1976 AIR TEMP 14C SECCHI 3.0M

| DEPTH M | TEMP. C | DISSOLVED OXYGEN MG/L | DISSOLVED OXYGEN %SAT'N | PH | CONDUCTANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBIDITY APHA UNITS | TOTAL PHOSPHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.2 | 3.7 | 12.3 | 97 | 5.6 | 30 | 60 | 0.38 | 8.6 |
| 1.0 | 3.7 | 12.3 | 97 | 5.6 | | | | |
| 2.0 | 3.7 | 12.2 | 96 | 5.5 | | | | |
| 4.0 | 3.7 | 12.2 | 96 | 5.5 | | | | |
| 5.0 | 3.7 | 12.2 | 96 | 5.5 | | | | 6.2 |
| 7.0 | 3.7 | 12.2 | 96 | 5.5 | | | | |
| 10.0 | 3.7 | 12.2 | 96 | 5.5 | 29 | 60 | 0.45 | 5.6 |
| 15.0 | 3.7 | 12.2 | 96 | 5.5 | | | | |
| 20.0 | 3.7 | 12.2 | 96 | 5.5 | | | | 5.8 |
| 25.0 | 3.9 | | | | | | | |
| 30.0 | 3.9 | 11.8 | 93 | | 30 | 60 | 0.30 | 5.3 |

| DEPTH M | CHLOROPHYLL A MG/M3 | PHAEOPHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.2 | 0.0 | 0.2 | 1.7 |
| 2.0 | 0.1 | 0.1 | |
| 5.0 | 0.0 | 0.1 | |
| 10.0 | 0.0 | 0.1 | 1.6 |
| 20.0 | 0.0 | 0.1 | 1.6 |
| 30.0 | 0.0 | 0.1 | 1.6 |

continued,

WARREN LAKE C38A MAY 26 1976 AIR TEMP 7C SECCHI 2.7M

| DEPTH M | TEMP. C | DISSOLVED OXYGEN MG/L | DISSOLVED OXYGEN %SAT'N | PH | CONDUCTANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBIDITY APHA UNITS | TOTAL PHOSPHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.1 | 9.0 | 11.7 | 105 | 5.6 | 30 | 65 | 0.22 | 9.7 |
| 1.0 | 9.0 | 11.4 | 102 | 5.5 | | | | |
| 2.0 | 9.0 | 11.4 | 102 | 5.5 | | | | |
| 4.0 | 9.0 | 11.4 | 102 | 5.5 | 30 | 65 | 0.30 | 10.0 |
| 6.0 | 8.5 | 11.4 | 101 | 5.5 | | | | |
| 8.0 | 7.5 | 11.4 | 99 | 5.4 | | | | |
| 10.0 | 7.5 | 11.4 | 99 | 5.4 | 29 | 60 | 0.30 | 9.6 |
| 15.0 | 6.2 | 11.4 | 96 | 5.3 | | | | |
| 19.4 | 5.5 | 11.4 | 94 | 5.3 | | | | |
| 20.0 | 4.7 | | | | 30 | 50 | 0.35 | 9.7 |
| 21.0 | 4.4 | | | | | | | |
| 25.0 | 4.4 | | | | | | | |
| 28.0 | 4.2 | | | | 30 | 50 | 0.29 | 13.2 |
| 29.0 | 4.4 | 10.5 | 84 | | | | | |

| DEPTH M | CHLOROPHYLL A MG/M3 | PHAEOPHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.1 | 0.2 | 0.2 | 1.3 |
| 4.0 | 0.1 | 0.2 | 1.2 |
| 10.0 | 0.1 | 0.1 | 1.3 |
| 20.0 | 0.0 | 0.2 | 1.7 |
| 28.0 | 0.0 | 0.1 | 1.8 |

continued,

Table 34 , cont.

WARREN LAKE C38A JUNE 13 1976 AIR TEMP 13C SECCHI 3.5M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 13.5 | 10.3 | 103. | 5.9 | 26. | 40 | 0.21 | 5.2 |
| 1.0 | 13.5 | 10.3 | 103. | 5.9 | 26. | | | |
| 2.0 | 13.5 | 10.3 | 103. | 5.8 | 26. | 40 | 0.18 | 6.5 |
| 3.0 | 13.5 | 10.2 | 101. | 5.8 | 26. | | | |
| 5.0 | 13.5 | 10.2 | 101. | 5.8 | 26. | | | |
| 6.0 | 13.5 | 10.2 | 100. | 5.8 | 26. | | | |
| 7.0 | 12.5 | 10.3 | 100. | 5.7 | 26. | 40 | 0.15 | 5.3 |
| 9.0 | 11.0 | 10.6 | 99. | 5.5 | 26. | | | |
| 10.0 | 10.5 | 10.8 | 100. | 5.5 | 26. | 40 | 0.17 | 6.3 |
| 11.0 | 10.0 | 10.7 | 98. | 5.4 | 26. | | | |
| 12.0 | 9.0 | 10.7 | 96. | 5.4 | 26. | 45 | 0.20 | 10.8 |
| 13.0 | 8.0 | 10.7 | 94. | 5.4 | 25. | 45 | 0.15 | 4.8 |
| 14.0 | 7.1 | 10.7 | 92. | 5.4 | 25. | 45 | 0.16 | 5.3 |
| 15.0 | 6.5 | 10.7 | 90. | 5.3 | 25. | | | |
| 17.0 | 6.5 | 10.7 | 90. | 5.3 | 25. | | | |
| 19.8 | 6.0 | 10.8 | 90. | 5.3 | 24. | 35 | 0.18 | 5.8 |
| 25.0 | 5.0 | 10.0 | 81. | 6.2 | 31. | 35 | 0.19 | 6.1 |
| 27.0 | 5.0 | 10.0 | 81. | 6.1 | 31. | 50 | 0.35 | 7.0 |
| 29.6 | 5.0 | 9.8 | 79. | | | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.5 | 0.5 | 1.0 |
| 2.0 | 0.7 | 0.1 | 1.0 |
| 7.0 | | | 1.3 |
| 10.0 | 0.2 | 0.1 | 2.6 |
| 12.0 | 0.2 | 0.4 | |
| 13.0 | 0.1 | 0.3 | 2.8 |
| 14.0 | 0.1 | 0.3 | |
| 19.8 | 0.1 | 0.2 | |
| 25.0 | 0.5 | 0.3 | |
| 29.6 | 0.1 | 0.5 | |

continued,

Table 34 , cont.

WARREN LAKE C38A JUNE 29 1976 AIR TEMP 17C SECCHI 4.0M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 18.7 | 9.4 | 104. | 5.8 | 40. | 45 | 0.13 | 5.2 |
| 1.0 | | | | | 41. | 45 | 0.15 | 4.5 |
| 2.0 | 18.6 | 9.4 | 104. | 5.6 | | | | |
| 3.0 | | | | | 38. | 45 | 0.13 | 4.5 |
| 4.0 | 18.5 | 9.6 | 106. | 5.8 | | | | |
| 5.0 | 17.5 | 9.4 | 102. | 5.6 | 39. | 50 | 0.15 | 4.3 |
| 6.0 | 13.5 | 10.0 | 99. | 5.5 | 39. | 45 | 0.20 | 4.8 |
| 8.0 | 12.0 | 10.1 | 97. | 5.5 | 39. | 55 | 0.16 | 7.0 |
| 10.0 | 10.7 | 10.2 | 95. | 5.4 | 39. | 55 | 0.18 | 4.5 |
| 12.0 | 8.5 | 10.3 | 91. | 5.4 | 39. | 55 | 0.20 | 5.5 |
| 14.0 | 7.4 | 10.4 | 90. | 5.4 | 38. | 55 | 0.18 | 4.6 |
| 16.0 | 6.4 | 10.4 | 87. | 5.3 | 39. | 50 | 0.20 | 4.8 |
| 18.0 | 6.2 | 10.5 | 88. | 5.3 | | | | |
| 20.0 | 6.0 | 10.5 | 87. | 5.2 | 38. | 50 | 0.12 | 5.5 |
| 22.0 | 5.8 | 10.5 | 87. | 5.2 | | | | |
| 25.0 | 5.6 | 10.1 | 83. | 5.2 | | | | 5.5 |
| 28.0 | 5.4 | 10.1 | 82. | 5.2 | | | | |
| 30.0 | 5.4 | 9.2 | 75. | 5.2 | 38. | 50 | 0.22 | 5.4 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 2.6 | 2.6 | 1.5 |
| 1.0 | 2.2 | 2.5 | 1.5 |
| 3.0 | 2.6 | 2.7 | 1.5 |
| 5.0 | 2.2 | 2.4 | 1.6 |
| 6.0 | 1.7 | 1.9 | |
| 8.0 | 0.7 | 0.8 | 1.6 |
| 10.0 | 0.4 | 0.5 | 2.6 |
| 12.0 | 0.3 | 0.4 | |
| 14.0 | 0.2 | 0.3 | 2.7 |
| 16.0 | 0.2 | 0.3 | |
| 20.0 | 0.1 | 0.2 | 3.1 |
| 30.0 | 0.3 | 0.4 | 3.7 |

continued,

Table 34 , cont.

WARREN LAKE C38A JULY 12 1976 AIR TEMP 18C SECCHI 4.3M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SATN | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 21.2 | 9.1 | 105. | 6.0 | 34. | 35 | 0.12 | 6.1 |
| 2.0 | 21.2 | 9.1 | 105. | 6.0 | 34. | | 0.12 | 6.7 |
| 3.0 | 21.2 | 9.1 | 105. | 6.0 | 34. | | | |
| 4.0 | 19.4 | 8.9 | 100. | 5.7 | 34. | 35 | 0.10 | 6.1 |
| 5.0 | 18.5 | 9.1 | 100. | 5.7 | 34. | | | |
| 6.0 | 14.0 | 9.4 | 94. | 5.4 | 32. | 35 | 0.15 | 6.1 |
| 7.0 | 12.8 | 9.6 | 94. | 5.4 | 31. | | | |
| 8.0 | 11.2 | 9.8 | 92. | 5.4 | 30. | | | |
| 10.0 | 10.2 | 10.0 | 92. | 5.4 | 30. | 35 | 0.14 | 10.1 |
| 12.0 | 8.3 | 10.1 | 89. | 5.4 | 30. | | | |
| 14.0 | 7.2 | 10.1 | 86. | 5.3 | 30. | | 0.15 | 9.6 |
| 16.0 | 6.4 | 10.1 | 84. | 5.3 | 29. | | | |
| 18.0 | 6.1 | 10.3 | 86. | 5.2 | 29. | | 0.30 | 6.1 |
| 20.0 | 5.9 | 10.4 | 86. | 5.2 | 28. | | | |
| 22.0 | 5.7 | 10.4 | 85. | 5.2 | 28. | | 0.23 | 5.1 |
| 25.0 | 5.6 | 10.0 | 82. | 5.2 | 28. | | 0.20 | 4.5 |
| 28.0 | 5.5 | 9.6 | 78. | 5.2 | 28. | | | |
| 29.5 | 5.4 | 8.8 | 72. | 5.2 | 28. | | 0.28 | 5.2 |
| 30.0 | 5.4 | 8.8 | 72. | 5.2 | 28. | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.7 | 0.5 | 1.5 |
| 2.0 | 0.7 | 0.2 | |
| 4.0 | 0.7 | 0.3 | |
| 6.0 | 0.4 | 0.3 | 1.9 |
| 10.0 | 0.1 | 0.2 | |
| 14.0 | 0.3 | 0.3 | 5.9 |
| 18.0 | 0.1 | 0.3 | |
| 22.0 | 0.1 | 0.2 | |
| 29.5 | 0.1 | 0.4 | 2.5 |

continued,

Table 34, cont.

WARREN LAKE C38A JULY 15 1976 AIR TEMP 19C SECCHI 4.9M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 18.5 | 9.0 | 99. | | | | | 8.6 |
| 5.0 | 17.5 | 8.7 | 94. | | | | | |
| 10.0 | 11.0 | 9.2 | 86. | | | | | |
| 15.0 | 8.0 | 8.9 | 78. | | | | | |
| 20.0 | 6.8 | 9.1 | 77. | | | 50 | | |
| 25.0 | 6.0 | 8.4 | 70. | | | | | |
| 30.0 | 5.9 | 7.1 | 58. | | | 65 | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.2 | 0.7 | 3.0 |

continued,

Table 34 , cont.

WARREN LAKE C38A JULY 26 1976 AIR TEMP 20C SECCHI 3.6M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 20.3 | 9.4 | 107. | 6.1 | 32. | 30 | 0.21 | 4.6 |
| 1.0 | 20.3 | 9.4 | 107. | 6.2 | 32. | | | |
| 2.0 | 19.6 | 9.2 | 103. | 6.1 | 32. | 35 | 0.19 | 3.9 |
| 3.0 | 19.3 | 9.1 | 102. | 6.0 | 33. | 35 | 0.19 | 3.6 |
| 4.0 | 18.4 | 9.0 | 98. | 5.9 | 34. | 35 | 0.18 | 4.1 |
| 5.0 | 17.0 | 8.8 | 94. | 5.7 | 33. | 35 | 0.19 | 7.7 |
| 6.0 | 15.6 | 8.8 | 92. | 5.6 | 32. | 35 | 0.19 | 7.0 |
| 7.0 | 14.0 | 9.0 | 90. | 5.6 | 32. | 35 | 0.14 | 4.7 |
| 8.0 | 11.8 | 9.4 | 89. | 5.5 | 30. | 35 | 0.14 | 3.8 |
| 9.0 | 11.3 | 9.5 | 90. | 5.5 | 30. | 40 | 0.14 | 4.2 |
| 10.0 | 10.2 | 9.8 | 90. | 5.4 | 30. | | | |
| 11.0 | 10.0 | 9.9 | 90. | 5.4 | 30. | | | |
| 12.0 | 8.3 | 9.9 | 87. | 5.4 | 29. | 40 | 0.14 | 5.9 |
| 13.0 | 7.5 | 9.9 | 86. | 5.4 | 29. | | | |
| 14.0 | 7.0 | 9.8 | 83. | 5.4 | 29. | | | |
| 16.0 | 6.6 | 9.8 | 82. | 5.4 | 29. | 50 | 0.20 | 7.1 |
| 18.0 | 6.4 | 10.0 | 83. | 5.4 | 28. | | | |
| 20.0 | 6.0 | 9.9 | 82. | 5.4 | 28. | 40 | 0.21 | 6.7 |
| 22.0 | 5.8 | 9.8 | 80. | 5.3 | 28. | | | |
| 24.0 | 5.6 | 9.5 | 78. | 5.3 | 28. | | | |
| 26.0 | 5.5 | 9.1 | 74. | 5.3 | 28. | 45 | 0.22 | 5.3 |
| 28.0 | 5.4 | 8.6 | 71. | 5.3 | 28. | | | |
| 29.0 | 5.4 | 8.1 | 66. | 5.3 | 28. | | | |
| 30.0 | 5.4 | 7.3 | 60. | 5.3 | 29. | 40 | 0.14 | 6.2 |
| 30.1 | 5.4 | 7.2 | 58. | 5.3 | 29. | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.0 | 0.6 | 2.7 |
| 2.0 | 1.1 | 0.5 | |
| 3.0 | 1.1 | 0.9 | 3.0 |
| 4.0 | 0.9 | 0.7 | |
| 5.0 | 0.5 | 0.8 | 3.0 |
| 6.0 | 0.7 | 0.4 | 2.4 |
| 7.0 | 0.4 | 0.4 | |
| 8.0 | 0.5 | 0.2 | 2.9 |
| 9.0 | 0.4 | 0.3 | |
| 12.0 | 0.2 | 0.3 | 3.5 |
| 16.0 | 0.2 | 0.2 | |
| 20.0 | 0.1 | 0.2 | 4.0 |
| 26.0 | 0.1 | 0.2 | 4.0 |
| 30.0 | 0.1 | 0.4 | 3.4 |

continued,

Table 34 , cont.

WARREN LAKE C38A AUGUST 9 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 23.0 | | | 6.3 | 31. | 40 | 0.17 | 5.3 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.2 | 3.0 | 1.6 |

continued,

Table 34, cont.

WARREN LAKE C38A AUGUST 11 1976 AIR TEMP 23C SECCHI 4.8M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 22.4 | 9.4 | 110. | 6.2 | 34. | 40 | 0.18 | 6.2 |
| 1.0 | 22.2 | 9.3 | 110. | 6.2 | 34. | | | |
| 2.0 | 20.7 | 9.2 | 105. | 6.0 | 34. | 40 | 0.23 | 7.9 |
| 3.0 | 20.7 | 9.0 | 104. | 5.9 | 34. | 40 | 0.19 | 8.1 |
| 4.0 | 20.2 | 9.0 | 102. | 5.9 | 34. | 40 | 0.17 | 5.5 |
| 5.0 | 20.0 | 8.9 | 100. | 5.8 | 34. | 40 | 0.20 | 6.2 |
| 6.0 | 18.3 | 8.4 | 92. | 5.6 | 34. | 40 | 0.21 | 6.6 |
| 7.0 | 16.5 | 8.2 | 87. | 5.5 | 33. | 40 | 0.18 | 4.7 |
| 8.0 | 13.6 | 8.4 | 84. | 5.3 | 31. | | | |
| 9.0 | 11.6 | 8.8 | 84. | 5.2 | 30. | 45 | 0.14 | 4.7 |
| 10.0 | 10.2 | 9.0 | 83. | 5.2 | 30. | | | |
| 12.0 | 8.5 | 9.2 | 82. | 5.2 | 30. | | | |
| 14.0 | 7.8 | 9.4 | 81. | 5.2 | 30. | | | |
| 16.0 | 7.0 | 9.2 | 78. | 5.2 | 29. | 45 | 0.15 | 4.5 |
| 18.0 | 6.5 | 9.2 | 77. | 5.2 | 29. | | | |
| 20.0 | 6.3 | 9.6 | 80. | 5.2 | 28. | 45 | 0.11 | 4.1 |
| 22.0 | 6.0 | 9.1 | 75. | 5.2 | 28. | | | |
| 24.0 | 5.8 | 8.8 | 72. | 5.2 | 28. | | | |
| 26.0 | 5.7 | 8.4 | 70. | 5.2 | 28. | 45 | 0.17 | 4.5 |
| 28.0 | 5.6 | 8.0 | 66. | 5.1 | 28. | | | |
| 30.0 | 5.6 | 6.9 | 56. | 5.2 | 29. | 50 | 0.48 | 5.2 |
| 30.6 | 5.5 | 6.6 | 54. | 5.2 | 29. | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.3 | 0.7 | 1.3 |
| 2.0 | 2.2 | 1.0 | |
| 3.0 | 1.6 | 1.2 | |
| 4.0 | 1.2 | 0.9 | |
| 5.0 | 0.8 | 0.6 | 1.1 |
| 6.0 | 0.5 | 0.8 | |
| 7.0 | 0.6 | | |
| 9.0 | 0.4 | 0.8 | |
| 10.0 | | | 2.6 |
| 16.0 | 0.2 | 0.6 | 2.4 |
| 20.0 | 0.2 | 0.3 | |
| 26.0 | 0.2 | 0.4 | 3.6 |
| 30.0 | 0.2 | 0.4 | 3.5 |

continued,

Table 34 , cont.

WARREN LAKE C38A AUGUST 23 1976 AIR TEMP 20C SECCHI 4.0M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 20.0 | 9.4 | 106. | 6.0 | 34. | 40 | 0.20 | 7.2 |
| 1.0 | 20.0 | 9.4 | 106. | 6.0 | 34. | | | |
| 2.0 | 20.0 | 9.3 | 105. | 6.0 | 34. | | | |
| 3.0 | 19.7 | 9.2 | 104. | 5.9 | 34. | 40 | 0.34 | 6.4 |
| 4.0 | 18.4 | 8.8 | 98. | 5.7 | 34. | 40 | 0.33 | 5.9 |
| 5.0 | 18.0 | 8.6 | 93. | 5.6 | 34. | 40 | 0.28 | 5.2 |
| 6.0 | 15.7 | 8.2 | 87. | 5.4 | 32. | 40 | 0.22 | 6.6 |
| 7.0 | 12.5 | 8.3 | 81. | 5.2 | 30. | 40 | 0.19 | 7.4 |
| 8.0 | 11.2 | 8.6 | 81. | 5.2 | 30. | 40 | 0.18 | 3.6 |
| 9.0 | 9.7 | 9.0 | 82. | 5.2 | 29. | | | |
| 10.0 | 9.0 | 9.0 | 80. | 5.2 | 29. | 40 | 0.18 | 7.9 |
| 12.0 | 7.9 | 9.2 | 79. | 5.2 | 29. | 50 | 0.23 | 3.8 |
| 14.0 | 7.3 | 9.2 | 78. | 5.2 | 29. | | | |
| 15.0 | 7.0 | 9.1 | 77. | 5.2 | 28. | 50 | 0.29 | 4.5 |
| 17.0 | 6.7 | 9.0 | 76. | 5.2 | 28. | | | |
| 19.0 | 6.3 | 9.3 | 78. | 5.2 | 28. | | | |
| 20.0 | 6.2 | 9.2 | 76. | 5.2 | 28. | 50 | 0.31 | 6.7 |
| 22.0 | 6.0 | 8.9 | 74. | 5.2 | 28. | | | |
| 25.0 | 5.7 | 9.0 | 74. | 5.2 | 28. | 50 | 0.28 | 6.7 |
| 28.0 | 5.5 | 7.0 | 57. | 5.2 | 28. | | | |
| 30.0 | 5.4 | 4.0 | 33. | 5.2 | 30. | 50 | 0.26 | 7.4 |
| 30.2 | 5.4 | 4.0 | 33. | 5.3 | 32. | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.5 | 0.1 | 1.6 |
| 3.0 | 0.6 | 1.0 | |
| 4.0 | 0.6 | 1.6 | |
| 5.0 | 1.2 | 0.8 | 1.2 |
| 6.0 | 0.9 | 0.9 | |
| 7.0 | 1.0 | 0.4 | |
| 8.0 | 0.4 | 0.7 | |
| 10.0 | 0.4 | 0.6 | 2.0 |
| 12.0 | 0.6 | 0.7 | |
| 15.0 | 0.6 | 0.7 | 2.2 |
| 20.0 | 0.3 | 0.4 | 2.7 |
| 25.0 | 0.5 | 0.4 | 2.6 |
| 30.0 | 0.4 | 0.9 | 3.2 |

continued,

Table 34 , cont.

WARREN LAKE C38A SEPTEMBER 1 1976 AIR TEMP 22C SECCHI 5.0M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 19.4 | 9.5 | 106. | 6.1 | 34. | | | |
| 2.0 | 18.9 | 9.3 | 103. | 6.0 | 35. | 30 | 0.17 | 7.1 |
| 3.0 | 18.8 | 9.3 | 103. | 6.0 | 35. | | | |
| 4.0 | 18.8 | 9.3 | 103. | 6.0 | 35. | | | |
| 5.0 | 18.8 | 9.3 | 103. | 6.0 | 35. | | | |
| 6.0 | 18.7 | 9.2 | 101. | 5.9 | 35. | 30 | 0.22 | 5.4 |
| 7.0 | 18.0 | 9.0 | 98. | 5.8 | 35. | | | |
| 8.0 | 14.4 | 8.4 | 85. | 5.3 | 34. | | | |
| 9.0 | 11.2 | 8.3 | 78. | 5.2 | 31. | | | |
| 10.0 | 10.1 | 8.6 | 78. | 5.2 | 30. | | | |
| 12.0 | 8.5 | 8.8 | 78. | 5.3 | 30. | | | |
| 14.0 | 7.4 | 8.9 | 76. | 5.2 | 30. | 40 | 0.24 | 5.9 |
| 16.0 | 6.7 | 8.8 | 74. | 5.2 | 30. | | | |
| 18.0 | 6.5 | 8.8 | 74. | 5.2 | 30. | | | |
| 20.0 | 6.2 | 8.8 | 74. | 5.2 | 29. | | | |
| 22.0 | 5.0 | 8.5 | 71. | 5.2 | 29. | 40 | 0.23 | 6.5 |
| 24.0 | 5.9 | 8.2 | 68. | 5.2 | 29. | | | |
| 26.0 | 5.7 | 8.0 | 66. | 5.2 | 29. | | | |
| 29.0 | 5.6 | 7.2 | 58. | 5.2 | 30. | | | |
| 30.0 | 5.6 | 6.0 | 49. | 5.2 | 30. | | | |
| 30.8 | 5.6 | 5.4 | 44. | 5.2 | 30. | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 2.0 | 1.5 | 1.8 | |
| 6.0 | 1.3 | 1.5 | |
| 14.0 | 0.2 | 0.7 | |
| 22.0 | 0.1 | 0.7 | |

continued,

Table 34 , cont.

WARREN LAKE C38A SEPTEMBER 1 1976 AIR TEMP 22C STATION B

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 19.3 | 9.4 | 106. | 6.1 | 37. | | | |
| 1.0 | 19.3 | 9.4 | 106. | 6.1 | 37. | | | |
| 2.0 | 19.0 | 9.4 | 104. | 6.1 | 37. | 30 | 0.20 | 6.1 |
| 3.0 | 18.6 | 9.3 | 103. | 6.1 | 37. | | | |
| 4.0 | 18.7 | 9.2 | 102. | 6.1 | 37. | | | |
| 5.0 | 18.7 | 9.2 | 102. | 6.1 | 36. | | | |
| 6.0 | 18.6 | 9.2 | 101. | 6.0 | 36. | 30 | 0.23 | 6.7 |
| 7.0 | 17.4 | 8.9 | 96. | 5.8 | 36. | | | |
| 8.0 | 15.6 | 8.2 | 85. | 5.5 | 35. | | | |
| 9.0 | 11.4 | 8.2 | 77. | 5.3 | 32. | | | |
| 10.0 | 10.4 | 8.4 | 77. | 5.3 | 32. | | | |
| 11.0 | 9.5 | 8.5 | 78. | 5.3 | 31. | | | |
| 12.0 | 8.6 | 8.7 | 77. | 5.3 | 31. | 40 | 0.14 | 4.8 |
| 14.0 | 7.5 | 8.5 | 74. | 5.3 | 31. | | | |
| 16.0 | 6.9 | 8.5 | 72. | 5.3 | 30. | 40 | 0.29 | 5.0 |
| 18.0 | 6.4 | 8.3 | 70. | 5.3 | 30. | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 2.0 | 1.5 | 2.0 | |
| 6.0 | 1.6 | 1.5 | |
| 12.0 | 0.3 | 0.9 | |
| 16.0 | 0.2 | 0.6 | |

continued,

Table 34 , cont.

WARREN LAKE C38A SEPTEMBER 1 1976 AIR TEMP 22C STATION C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 19.3 | 9.6 | 107. | 6.1 | 32. | | | |
| 1.0 | 19.3 | 9.5 | 106. | 6.1 | 37. | | | |
| 2.0 | 19.3 | 9.4 | 104. | 6.1 | 37. | 30 | 0.21 | 4.4 |
| 3.0 | 19.3 | 9.4 | 104. | 6.2 | 37. | | | |
| 4.0 | 19.2 | 9.4 | 104. | 6.2 | 36. | | | |
| 5.0 | 18.8 | 9.3 | 103. | 6.1 | 36. | | | |
| 6.0 | 18.6 | 9.2 | 102. | 6.1 | 36. | 30 | 0.19 | 4.8 |
| 7.0 | 17.9 | 8.8 | 96. | 5.9 | 36. | | | |
| 8.0 | 14.0 | 7.8 | 78. | 5.4 | 34. | | | |
| 9.0 | 11.7 | 8.2 | 78. | 5.3 | 32. | | | |
| 10.0 | 10.2 | 8.4 | 77. | 5.3 | 32. | | | |
| 12.0 | 8.3 | 8.7 | 76. | 5.3 | 31. | 40 | 0.15 | 6.2 |
| 14.0 | 7.5 | 8.5 | 73. | 5.3 | 30. | | | |
| 16.0 | 7.0 | 8.2 | 70. | 5.3 | 30. | 40 | 0.18 | 6.4 |
| 17.7 | 6.6 | 7.0 | 59. | 6.0 | 39. | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 2.0 | 1.4 | 2.2 | |
| 6.0 | 1.4 | 1.3 | |
| 12.0 | 0.3 | 0.8 | |
| 16.0 | 0.1 | 0.7 | |

continued,

Table 34 , cont.

WARREN LAKE C38A SEPTEMBER 7 1976 AIR TEMP 20C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 18.5 | 9.4 | 103. | | | | | |
| 2.0 | 18.3 | 9.4 | 103. | | | | | |
| 4.0 | 18.0 | 9.0 | 98. | | | | | |
| 6.0 | 17.2 | 8.8 | 95. | | | | | |
| 8.0 | 16.0 | 8.5 | 89. | | | | | |
| 8.5 | 14.0 | 8.6 | 86. | | | | | |
| 10.0 | 11.8 | 7.8 | 74. | | | | | |
| 12.0 | 9.2 | 8.7 | 73. | | | | | |
| 15.0 | 8.0 | 8.2 | 71. | | | | | |
| 20.0 | 6.9 | 8.7 | 69. | | | | | |
| 30.0 | 6.1 | 5.7 | 47. | | | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 2.1 | 1.8 | 1.2 |
| 8.0 | 0.7 | 0.9 | 1.4 |

continued,

Table 34 , cont.

WARREN LAKE C38A SEPTEMBER 16 1976 AIR TEMP 18C SECCHI 4.6M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 17.1 | 9.7 | 104. | 6.1 | 34. | 45 | 0.20 | 4.6 |
| 2.0 | 17.0 | 9.7 | 103. | 6.0 | 35. | 45 | 0.20 | 3.5 |
| 3.0 | 16.8 | 9.6 | 102. | 6.0 | 35. | | | |
| 4.0 | 16.7 | 9.5 | 102. | 6.0 | 35. | 45 | 0.21 | 3.3 |
| 5.0 | 16.6 | 9.5 | 102. | 5.9 | 35. | 45 | 0.18 | 3.0 |
| 6.0 | 15.3 | 9.4 | 99. | 5.8 | 35. | 45 | 0.17 | 3.2 |
| 7.0 | 16.1 | 9.3 | 98. | 5.8 | 35. | 45 | 0.19 | 3.0 |
| 8.0 | 15.3 | 8.9 | 92. | 5.6 | 34. | 45 | 0.18 | 3.3 |
| 9.0 | 14.8 | 8.7 | 90. | 5.5 | 34. | 45 | 0.17 | 3.3 |
| 10.0 | 12.1 | 8.0 | 77. | 5.3 | 32. | 50 | 0.18 | 3.0 |
| 11.0 | 10.1 | 8.0 | 73. | 5.3 | 31. | | | |
| 12.0 | 8.1 | 8.2 | 72. | 5.3 | 30. | 50 | 0.16 | 3.0 |
| 14.0 | 7.3 | 8.2 | 70. | 5.3 | 30. | | | |
| 16.0 | 6.9 | 8.1 | 69. | 5.3 | 30. | 55 | 0.25 | 3.9 |
| 18.0 | 6.7 | 8.2 | 68. | 5.3 | 30. | | | |
| 20.0 | 6.5 | 7.8 | 66. | 5.3 | 30. | 55 | 0.37 | 3.8 |
| 22.0 | 6.3 | 8.1 | 68. | 5.3 | 30. | | | |
| 24.0 | 6.1 | 7.9 | 66. | 5.3 | 29. | 55 | 0.22 | 3.0 |
| 26.0 | 6.0 | 7.6 | 62. | 5.2 | 29. | | | |
| 28.0 | 6.0 | 5.9 | 49. | 5.2 | 30. | | | |
| 30.0 | 5.9 | 5.1 | 42. | 5.3 | 30. | 70 | 0.97 | 1.7 |
| 30.7 | 5.9 | 4.9 | 40. | 5.3 | 30. | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.4 | 1.8 | 1.4 |
| 2.0 | 0.5 | 0.5 | |
| 4.0 | 1.1 | 2.0 | |
| 5.0 | 0.9 | 2.4 | 1.3 |
| 6.0 | 1.0 | 2.3 | |
| 7.0 | 0.9 | 2.2 | |
| 8.0 | 0.5 | 1.8 | |
| 9.0 | 0.5 | 1.8 | |
| 10.0 | 0.6 | 1.4 | 1.8 |
| 12.0 | 0.6 | 1.4 | |
| 16.0 | 0.2 | 1.7 | 2.9 |
| 20.0 | 0.1 | 1.6 | 3.0 |
| 24.0 | 0.2 | 1.6 | 3.0 |
| 30.0 | 0.2 | 2.9 | 3.7 |

continued,

Table 34 , cont.

WARREN LAKE C33A OCTOBER 1 1976 AIR TEMP 12C SECCHI 4.4M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 15.0 | 9.7 | 99. | 6.0 | 34. | 45 | 0.18 | 4.2 |
| 1.0 | 15.0 | 9.6 | 98. | 5.9 | 34. | | | |
| 2.0 | 15.0 | 9.5 | 98. | 5.9 | 34. | 45 | 0.29 | 3.9 |
| 3.0 | 15.0 | 9.2 | 94. | 5.9 | 34. | 45 | 0.28 | 3.5 |
| 4.0 | 15.0 | 9.1 | 93. | 5.8 | 34. | 45 | 0.22 | 3.9 |
| 5.0 | 14.9 | 9.2 | 94. | 5.8 | 34. | 45 | 0.24 | 3.9 |
| 6.0 | 14.9 | 9.1 | 93. | 5.8 | 34. | 45 | 0.26 | 4.4 |
| 7.0 | 14.9 | 9.0 | 92. | 5.8 | 34. | 45 | 0.19 | 3.8 |
| 8.0 | 14.8 | 8.9 | 91. | 5.9 | 35. | | | |
| 9.0 | 13.7 | 8.8 | 88. | 5.6 | 34. | 45 | 0.23 | 3.8 |
| 10.0 | 12.5 | 8.4 | 81. | 5.4 | 34. | 45 | 0.16 | 3.9 |
| 12.0 | 9.6 | 7.7 | 80. | 5.3 | 31. | | | |
| 13.0 | 8.2 | 7.5 | 66. | 5.2 | 30. | | | |
| 15.0 | 7.3 | 7.6 | 65. | 5.2 | 30. | 45 | 0.18 | 3.9 |
| 17.0 | 7.0 | 7.6 | 64. | 5.2 | 30. | | | |
| 19.0 | 6.7 | 7.8 | 66. | 5.2 | 30. | | | |
| 20.0 | 6.6 | 7.8 | 66. | 5.2 | 30. | 45 | 0.13 | 3.9 |
| 22.0 | 6.4 | 7.3 | 61. | 5.2 | 30. | | | |
| 25.0 | 6.2 | 7.0 | 58. | 5.2 | 29. | 50 | 0.30 | 5.6 |
| 28.0 | 6.1 | 5.7 | 48. | 5.2 | 30. | | | |
| 30.0 | 6.0 | 5.6 | 46. | 5.2 | 30. | 60 | 0.95 | 3.5 |
| 30.8 | 6.0 | 5.0 | 41. | 5.2 | 30. | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.9 | 0.1 | 2.6 |
| 2.0 | 1.6 | 0.0 | |
| 3.0 | 1.6 | 0.0 | |
| 4.0 | 1.4 | 0.0 | |
| 5.0 | 1.3 | 0.0 | 2.3 |
| 6.0 | 0.9 | 0.0 | |
| 7.0 | 0.7 | 0.0 | |
| 9.0 | 1.7 | 0.0 | |
| 10.0 | 1.1 | 0.2 | 2.4 |
| 15.0 | 0.5 | 0.2 | 3.5 |
| 20.0 | 0.2 | 0.1 | 3.8 |
| 25.0 | 0.1 | 0.2 | 4.4 |
| 30.0 | 0.1 | 0.1 | 4.5 |

continued,

Table 34 , cont.

WARREN LAKE C38A OCTOBER 26 1976 AIR TEMP 14C SECCHI 3.1M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 6.6 | 10.8 | 91. | 5.4 | 32. | 70 | 0.39 | 7.6 |
| 1.0 | 6.2 | 10.7 | 90. | 5.3 | 32. | 70 | 0.57 | |
| 3.0 | 6.0 | 10.6 | 88. | 5.3 | 32. | 70 | 0.62 | |
| 5.0 | 6.0 | 10.6 | 88. | 5.3 | 32. | 70 | 0.50 | 6.7 |
| 7.0 | 6.0 | 10.6 | 88. | 5.3 | 32. | 70 | 0.56 | |
| 10.0 | 5.9 | 10.6 | 88. | 5.3 | 32. | 70 | 0.50 | 5.9 |
| 12.0 | 5.6 | 10.5 | 85. | 5.2 | 32. | | | |
| 15.0 | 5.2 | 10.0 | 81. | 5.1 | 32. | 70 | 0.70 | 6.8 |
| 17.0 | 5.0 | 10.1 | 82. | 5.1 | 32. | | | |
| 20.0 | 5.0 | 9.9 | 80. | 5.1 | 32. | 70 | 0.50 | 7.0 |
| 22.0 | 5.0 | 9.8 | 79. | 5.1 | 32. | | | |
| 25.0 | 4.7 | 9.5 | 76. | 5.1 | 31. | 70 | 0.54 | 6.7 |
| 27.0 | 4.4 | 8.9 | 71. | 5.1 | 31. | | | |
| 30.0 | 4.0 | 7.6 | 60. | 5.0 | 31. | 70 | 0.42 | 7.3 |
| 31.0 | 3.5 | 7.1 | 55. | 5.1 | 30. | 70 | 0.55 | 10.2 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 2.0 | 5.9 | 2.7 |
| 1.0 | 1.6 | 5.3 | |
| 3.0 | 1.5 | 5.2 | |
| 5.0 | 1.2 | 4.0 | 2.4 |
| 7.0 | 0.9 | 3.1 | |
| 10.0 | 0.4 | 1.0 | 2.2 |
| 15.0 | 1.3 | 4.5 | 2.2 |
| 20.0 | 0.3 | 1.1 | 3.0 |
| 25.0 | 0.6 | 2.2 | 3.0 |
| 30.0 | 0.6 | 2.2 | 3.7 |

continued,

Table 34 , cont.

WARREN LAKE C38A NOVEMBER 23 1976 AIR TEMP 4C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 1.7 | 13.7 | 102. | 5.9 | 30. | 70 | 0.65 | 9.6 |
| 2.0 | 1.7 | 13.6 | 101. | 5.9 | 30. | 70 | 0.66 | 8.5 |
| 3.0 | 1.7 | 13.6 | 101. | 5.9 | 30. | 70 | 0.62 | 9.1 |
| 4.0 | 1.7 | 13.6 | 101. | 5.9 | 30. | 70 | 0.72 | 9.4 |
| 5.0 | 1.7 | 13.6 | 101. | 5.9 | 30. | 70 | 0.61 | 9.2 |
| 6.0 | 1.7 | 13.6 | 101. | 5.9 | 30. | | | |
| 8.0 | 1.7 | 13.6 | 101. | 5.9 | 30. | 70 | 0.78 | 9.1 |
| 10.0 | 1.7 | 13.6 | 101. | 5.9 | 30. | 70 | 0.69 | 9.4 |
| 12.0 | 1.7 | 13.5 | 100. | 5.9 | 30. | | | |
| 13.0 | 1.7 | 13.5 | 100. | 5.9 | 30. | | | |
| 15.0 | 1.7 | 13.5 | 100. | 5.9 | 30. | 70 | 0.81 | 11.5 |
| 17.0 | 1.7 | 13.4 | 99. | 5.9 | 30. | | | |
| 20.0 | 1.7 | 13.4 | 99. | 5.9 | 30. | 70 | 0.84 | 4.2 |
| 22.0 | 1.7 | 13.4 | 99. | 5.9 | 30. | | | |
| 25.0 | 1.7 | 13.4 | 99. | 5.9 | 29. | 70 | 0.79 | 3.5 |
| 27.0 | 1.7 | 13.3 | 98. | 5.9 | 29. | | | |
| 29.0 | 1.8 | 13.3 | 98. | 5.9 | 29. | | | |
| 31.0 | 1.8 | 13.3 | 98. | 5.9 | 29. | 70 | 0.78 | 4.8 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.3 | 0.0 | 2.2 |
| 2.0 | 0.2 | 0.0 | |
| 3.0 | 0.2 | 0.1 | |
| 4.0 | 0.2 | 0.1 | |
| 5.0 | 0.2 | 0.1 | 1.5 |
| 8.0 | 0.2 | 0.0 | |
| 10.0 | 0.2 | 0.4 | 1.8 |
| 15.0 | 0.2 | 0.1 | 1.6 |
| 20.0 | 0.2 | 0.1 | 1.4 |
| 25.0 | 0.2 | 0.2 | 2.2 |
| 31.0 | 0.2 | 0.1 | 1.7 |

continued,

Table 34 , cont.

WARREN LAKE C38A DECEMBER 14 1976 AIR TEMP -10C THIN ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SATN | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.5 | | | 6.3 | 35. | 70 | 0.40 | 4.9 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.1 | 0.2 | 2.8 |

continued,

Table 34 , cont.

WARREN LAKE C38A JAN 13 1977 AIR TEMP -8C SECCHI 3.0M
ICE 0.43M,OPAQUE

| DEPTH M | TEMP. C | DISSOLVED OXYGEN MG/L | DISSOLVED OXYGEN %SAT'N | PH | CONDUCTANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBIDITY APHA UNITS | TOTAL PHOSPHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.5 | 0.1 | 15.3 | 109. | 5.4 | 30. | 50 | 0.35 | 14.5 |
| 0.7 | 0.2 | 14.9 | 106. | 5.4 | 29. | | | |
| 0.8 | 0.2 | 14.8 | 105. | 5.4 | 29. | | | |
| 1.0 | 0.3 | 14.5 | 104. | 5.4 | 28. | 50 | 0.30 | 7.5 |
| 2.0 | 0.4 | 14.0 | 100. | 5.4 | 27. | 50 | 0.37 | 5.0 |
| 3.0 | 0.4 | 14.0 | 100. | 5.4 | 28. | 50 | 0.34 | 5.2 |
| 4.0 | 0.5 | 14.0 | 101. | 5.4 | 28. | 50 | 0.25 | 5.7 |
| 5.0 | 0.7 | 13.8 | 100. | 5.4 | 28. | 50 | 0.28 | 6.6 |
| 7.0 | 0.7 | 13.6 | 98. | 5.3 | 28. | 55 | 0.33 | 5.7 |
| 9.0 | 0.7 | 13.5 | 98. | 5.3 | 29. | | | |
| 10.0 | 0.7 | 13.5 | 98. | 5.2 | 29. | 60 | 0.46 | 6.0 |
| 12.0 | 0.8 | 13.5 | 98. | 5.2 | 29. | | | |
| 14.0 | 0.8 | 13.5 | 98. | 5.2 | 29. | | | |
| 15.0 | 0.9 | 13.4 | 97. | 5.2 | 29. | 60 | 0.38 | 6.4 |
| 17.0 | 1.0 | 13.3 | 97. | 5.3 | 29. | | | |
| 20.0 | 1.1 | 13.2 | 97. | 5.3 | 29. | 60 | 0.32 | 7.0 |
| 22.0 | 1.2 | 13.1 | 96. | 5.3 | 29. | | | |
| 25.0 | 1.3 | 12.7 | 93. | 5.2 | 29. | 60 | 0.31 | 7.1 |
| 27.0 | 1.4 | 11.8 | 87. | 5.2 | 29. | | | |
| 29.0 | 1.7 | 9.5 | 70. | 5.3 | 29. | | | |
| 30.0 | 2.0 | 7.0 | 52. | 5.3 | 33. | 60 | 0.45 | 8.2 |
| 30.5 | 2.2 | 2.6 | 19. | 5.6 | 38. | | | |

| DEPTH M | CHLOROPHYLL A MG/M3 | PHAEOPHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.5 | 0.1 | 0.2 | 2.9 |
| 1.0 | 0.1 | 0.1 | |
| 2.0 | 0.1 | 0.1 | |
| 3.0 | 0.1 | 0.1 | |
| 4.0 | 0.1 | 0.1 | |
| 5.0 | 0.0 | 0.1 | 2.6 |
| 7.0 | 0.0 | 0.1 | |
| 10.0 | 0.0 | 0.1 | 3.0 |
| 15.0 | | | 2.8 |
| 20.0 | 0.1 | 0.1 | 3.0 |
| 25.0 | | | 3.4 |
| 30.0 | 0.0 | 0.1 | 5.0 |

continued,

Table 34, cont.

WARREN LAKE C38A FEB 1 1977 AIR TEMP -3C SECCHI 3.0M ICE 0.53M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SATN | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.6 | 0.1 | 15.0 | 107. | 5.7 | 21. | 45 | 0.32 | 4.4 |
| 0.8 | 0.2 | 14.4 | 103. | 5.6 | 28. | | | |
| 1.0 | 0.2 | 14.4 | 103. | 5.5 | 28. | 45 | 0.31 | 5.4 |
| 2.0 | 0.4 | 14.4 | 104. | 5.6 | 34. | 45 | 0.22 | 4.5 |
| 3.0 | 0.4 | 14.4 | 104. | 5.6 | 34. | 45 | 0.24 | 4.0 |
| 4.0 | 0.5 | 14.4 | 104. | 5.5 | 34. | 45 | 0.22 | 4.2 |
| 5.0 | 0.5 | 14.2 | 102. | 5.5 | 32. | 45 | 0.25 | 4.9 |
| 7.0 | 0.6 | 13.8 | 100. | 5.4 | 32. | 50 | 0.23 | 4.5 |
| 10.0 | 0.7 | 13.6 | 98. | 5.4 | 31. | 55 | 0.27 | 5.3 |
| 12.0 | 0.8 | 13.6 | 98. | 5.4 | 31. | | | |
| 15.0 | 1.0 | 13.4 | 98. | 5.3 | 30. | 60 | 0.25 | 6.0 |
| 17.0 | 1.0 | 13.3 | 97. | 5.3 | 30. | | | |
| 20.0 | 1.1 | 13.2 | 96. | 5.4 | 31. | 60 | 0.30 | 6.0 |
| 22.0 | 1.2 | 13.0 | 96. | 5.4 | 31. | | | |
| 25.0 | 1.4 | 12.0 | 88. | 5.3 | 31. | 60 | 0.32 | 6.2 |
| 27.0 | 1.5 | 11.1 | 82. | 5.4 | 32. | | | |
| 29.0 | 1.9 | 7.9 | 58. | 5.5 | 38. | 70 | 0.82 | 5.2 |
| 30.0 | 2.4 | 2.0 | 15. | 5.7 | 47. | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.6 | 0.1 | 0.1 | 5.5 |
| 1.0 | 0.1 | 0.1 | |
| 2.0 | 0.1 | 0.1 | |
| 4.0 | 0.1 | 0.1 | |
| 5.0 | | | 5.2 |
| 7.0 | 0.0 | 0.1 | |
| 10.0 | 0.0 | 0.1 | 5.8 |
| 15.0 | | | 4.7 |
| 20.0 | 0.0 | 0.1 | 5.5 |
| 25.0 | | | 4.6 |
| 30.0 | 0.0 | 0.1 | 8.8 |

continued,

Table 34, cont.

WARREN LAKE C38A MARCH 1 1977 AIR TEMP -1C SECCHI 1.9M
ICE 0.80M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SATN | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.8 | 0.3 | 14.7 | 105. | 5.7 | | | | |
| 1.0 | 0.3 | 14.6 | 104. | 5.7 | 39. | 50 | 0.26 | 11.1 |
| 2.0 | 0.4 | 14.2 | 102. | 5.6 | 38. | 50 | 0.24 | 6.2 |
| 3.0 | 0.5 | 14.1 | 101. | 5.6 | 39. | 50 | 0.22 | 4.0 |
| 4.0 | 0.6 | 14.0 | 101. | 5.6 | 39. | 50 | 0.25 | 4.8 |
| 5.0 | 0.7 | 13.8 | 100. | 5.5 | 39. | 50 | 0.20 | 4.8 |
| 7.0 | 0.8 | 13.7 | 99. | 5.5 | 37. | 50 | 0.22 | 5.1 |
| 10.0 | 0.9 | 13.2 | 96. | 5.5 | 37. | 55 | 0.28 | 5.2 |
| 12.0 | 1.0 | 13.1 | 95. | 5.4 | | | | |
| 15.0 | 1.1 | 13.1 | 96. | 5.3 | 36. | 60 | 0.30 | 5.0 |
| 17.0 | 1.2 | 13.0 | 95. | 5.4 | | | | |
| 20.0 | 1.3 | 12.6 | 92. | 5.4 | 36. | 60 | 0.24 | 5.0 |
| 22.0 | 1.4 | 12.3 | 90. | 5.4 | | | | |
| 25.0 | 1.6 | 11.0 | 81. | 5.4 | 39. | 60 | 0.25 | 8.0 |
| 27.0 | 1.7 | 9.7 | 72. | 5.5 | | | | |
| 28.0 | 2.0 | 7.1 | 53. | 5.6 | | | | |
| 29.0 | 2.3 | 2.4 | 18. | 5.6 | | | | |
| 30.0 | 2.7 | 0.5 | 4. | 6.1 | 47. | 60 | 0.58 | 5.1 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 1.0 | 0.2 | 0.3 | 4.6 |
| 2.0 | 0.1 | 0.2 | |
| 3.0 | 0.1 | 0.1 | |
| 5.0 | 0.0 | 0.1 | 4.3 |
| 10.0 | 0.1 | 0.1 | 5.0 |
| 15.0 | | | 5.9 |
| 20.0 | 0.0 | 0.1 | 4.4 |
| 25.0 | | | 6.5 |
| 30.0 | 0.0 | 0.1 | 6.7 |

Table 35. Limnological measurements in Cradle Lake C38a3a, C.B.H. National Park.

CRADLE LAKE C38A3A NOVEMBER 25 1975

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 2.8 | | | 5.8 | 32. | 20 | 0.40 | 5.2 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.4 | 0.1 | |

CRADLE LAKE C38A3A AUGUST 9 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 21.0 | | | 6.0 | 32. | 25 | 0.37 | 3.1 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.4 | 0.3 | 1.1 |

Table 36 . Limnological measurements in Spud Lake C38.4a, C.B.H. National Park.

SPUD LAKE C38.4A NOVEMBER 26 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 1.5 | | | 4.7 | 54. | 100 | 0.60 | 13.2 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.6 | 0.3 | |

SPUD LAKE C38.4A AUGUST 9 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 22.0 | | | 4.9 | 51. | 100 | 0.41 | 6.7 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.4 | 0.7 | 2.2 |

Table 37. Limnological measurements in Lake of Islands C38b, C.B.H. National Park.

LAKE OF ISLANDS C38B NOVEMBER 27 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 2.0 | | | 4.7 | 64. | 80 | 0.60 | 13.9 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.3 | 0.5 | |

LAKE OF ISLANDS C38B MARCH 2 1976 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | 4.8 | 32. | | | 8.2 |
| 0.8 | | | | 4.9 | 32. | | | 8.0 |
| 1.5 | | | | 4.8 | 32. | | | 8.6 |

continued,

Table 37 , cont.

LAKE OF ISLANDS C38B JULY 21 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | 5.2 | 32. | 70 | 0.82 | 11.0 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.7 | 0.8 | 2.8 |

LAKE OF ISLANDS C38B AUGUST 9 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 20.0 | | | 5.3 | 37. | 70 | 0.79 | 11.9 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.6 | 0.8 | 1.0 |

Table 38. Limnological measurements in Long Pond C41.4a, C.B.H. National Park.

LONG POND C41.4A NOVEMBER 27 1975

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 2.5 | | | 6.3 | 40. | 10 | 0.20 | 5.3 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.7 | 0.1 | |

LONG POND C41.4A AUGUST 9 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 22.0 | | | 6.4 | 35. | 15 | 0.22 | 5.0 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.5 | 0.4 | 1.9 |

Table 39. Limnological measurements in Lake C41.5.2a, C.B.H. National Park.

LAKE C41.5.2A AUGUST 12 1976

| DEPTH M | TEMP. C | DISSOLVED OXYGEN MG/L | DISSOLVED OXYGEN %SAT'N | PH | CONDUCTANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBIDITY APHA UNITS | TOTAL PHOSPHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | 5.0 | 28. | 30 | 0.63 | 5.4 |

| DEPTH M | CHLOROPHYLL A MG/M3 | PHAEOPHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.4 | 0.6 | |

Table 40 . Limnological measurements in Roper Lake C41.5c, C.B.H. National Park.

ROPER LAKE C41.5C NOVEMBER 26 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 1.0 | | | 5.0 | 36. | 75 | 1.20 | 7.7 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.3 | 0.4 | |

ROPER LAKE C41.5C AUGUST 9 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 19.0 | | | 5.1 | 34. | 80 | 0.97 | 7.3 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.4 | 1.2 | 1.9 |

Table 41 . Limnological measurements in Dundas Lake, No. 2, C41b, C.B.H. National Park.

DUNDAS LAKE NO.2 C41B JULY 29 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | 5.6 | 30. | 60 | 0.40 | 7.9 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.1 | 0.2 | |

Table 42 . Limnological measurements in Dundas Lake No. 3, C41c, C.B.H. National Park.

DUNDAS LAKE NO.3 C41C NOVEMBER 26 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 1.5 | | | 4.7 | 59. | 90 | 0.60 | 10.5 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.5 | 0.3 | |

DUNDAS LAKE NO.3 C41C JULY 29 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 18.0 | | | 5.5 | 28. | 70 | 0.59 | 10.5 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.2 | 0.2 | |

continued,

Table 42 , cont.

DUNDAS LAKE NO.3 C41C AUGUST 9 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 19.0 | | | 5.3 | 35. | 70 | 0.56 | 11.4 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.5 | 0.8 | 2.0 |

Table 43 . Limnological measurements in Dundas Lake, No. 4, C41d, C.B.H. National Park.

DUNDAS LAKE NO.4 C41D JULY 29 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 18.0 | | | 5.7 | 30. | 65 | 0.92 | 8.6 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.0 | 1.1 | 2.1 |

Table 44 . Limnological measurements in Dundas Lake, No. 5, C41d10a C.B.H. National Park.

DUNDAS LAKE NO.5 C41D10A NOVEMBER 26 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 1.8 | | | 4.7 | 60. | 80 | 0.50 | 13.0 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.3 | 0.2 | |

DUNDAS LAKE NO.5 C41D10A MARCH 3 1976 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | 6.3 | 30. | | | 31.0 |
| 1.0 | | | | 6.5 | 31. | | | 22.7 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.4 | 0.5 | |
| 1.0 | 0.2 | 0.5 | |

continued,

Table 44 , cont.

DUNDAS LAKE NO.5 C41010A JULY 29 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | 5.3 | 31. | 50 | 0.66 | 10.0 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.0 | 0.6 | 1.5 |

DUNDAS LAKE NO.5 C41010A AUGUST 9 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 19.0 | | | 5.1 | 34. | 75 | 0.72 | 16.9 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.2 | 1.7 | 2.8 |

Table 45 . Limnological measurements in Cann's Lake C42b, C.B.H. National Park.

CANN'S LAKE C42B MARCH 11 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | 5.6 | 43. | 5 | 0.19 | |

CANN'S LAKE C42B MARCH 11 1976 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | 4.5 | 45. | | | 8.0 |
| 1.0 | | | | 4.8 | 47. | | | 7.2 |
| 2.0 | | | | 4.5 | 49. | | | 7.7 |
| 3.0 | | | | 4.9 | 38. | | | 9.2 |
| 5.0 | | | | 4.6 | 30. | | | 10.3 |

CANN'S LAKE C42B JUNE 16 1976 AIR TEMP 30C SECCHI BOTTOM

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 18.0 | 9.7 | 110. | 6.2 | 26. | 8 | 0.31 | 3.9 |
| 0.5 | 17.5 | 9.7 | 109. | 6.2 | 26. | | | |
| 1.0 | 17.5 | 9.7 | 109. | 6.2 | 26. | | | |
| 2.0 | 16.0 | 9.8 | 107. | 6.2 | 26. | 10 | 0.50 | 5.9 |
| 3.0 | 14.5 | 9.9 | 105. | 6.2 | 25. | 8 | 0.47 | 4.2 |
| 3.8 | 14.5 | 9.9 | 105. | 6.2 | 25. | | | |
| 4.0 | 14.2 | 10.0 | 105. | 6.1 | 25. | 8 | 0.42 | 14.4 |
| 5.0 | 14.0 | 10.0 | 105. | 6.0 | 25. | 8 | 0.38 | |
| 5.2 | 14.0 | 6.1 | 64. | 5.9 | 32. | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.2 | 0.4 | 1.3 |
| 2.0 | 0.3 | 0.5 | |
| 3.0 | 0.2 | 0.5 | 1.4 |
| 4.0 | 0.4 | 0.6 | 1.7 |
| 5.0 | 0.8 | 0.8 | 1.5 |

continued,

Table 45, cont.

CANN'S LAKE C42B JULY 13 1976 AIR TEMP 13C SECCHI 7.9M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 20.8 | 8.6 | 103. | 6.1 | 28. | 2 | 0.27 | 4.6 |
| 1.0 | 20.8 | 8.6 | 103. | 6.1 | 28. | 2 | 0.27 | 6.1 |
| 2.0 | 20.8 | 8.6 | 103. | 6.1 | 28. | 2 | 0.18 | 3.9 |
| 3.0 | 20.6 | 8.3 | 99. | 6.0 | 28. | | | |
| 4.0 | 19.0 | 8.9 | 103. | 5.8 | 28. | 2 | 0.14 | 3.5 |
| 4.5 | 18.5 | 8.9 | 102. | 5.8 | | | | |
| 5.0 | 16.8 | 8.9 | 99. | 5.7 | 27. | 4 | 0.23 | 5.8 |
| 6.0 | 15.0 | 7.7 | 82. | 5.5 | 28. | 5 | 0.27 | 4.7 |
| 7.0 | 14.0 | 5.7 | 59. | 5.3 | 28. | 5 | 0.31 | 7.0 |
| 8.0 | 12.8 | 5.2 | 53. | 5.2 | 28. | 5 | 0.27 | 7.0 |
| 8.8 | 11.4 | 0.4 | 3. | 5.5 | 34. | 8 | 0.27 | 6.2 |
| 9.0 | 11.4 | 0.2 | 1. | 5.7 | 40. | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.0 | 0.5 | 1.7 |
| 1.0 | 1.0 | 0.5 | |
| 2.0 | 1.1 | 0.3 | 1.3 |
| 4.0 | 1.2 | 0.3 | 1.5 |
| 5.0 | 1.1 | 0.4 | 1.8 |
| 6.0 | 1.1 | 0.5 | |
| 7.0 | 1.8 | 0.4 | 2.5 |
| 8.0 | 1.6 | 0.5 | |
| 8.8 | 1.6 | 0.4 | 2.6 |

continued,

Table 45 , cont.

CANN'S LAKE C42.3 JULY 20 1976 AIR TEMP 22C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | 6.6 | 31. | 2 | 0.19 | 7.2 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.9 | 0.3 | |

CANN'S LAKE C42.3 AUGUST 9 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 22.0 | | | 6.3 | 30. | 2 | 0.17 | 8.6 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.0 | 0.3 | |

continued,

Table 45 , cont.

CANN'S LAKE C42.3 AUGUST 16 1976 AIR TEMP 24C SECCHI 7.7M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 21.2 | 9.0 | 107. | 6.0 | 28. | 2 | 0.18 | 6.8 |
| 1.0 | 21.0 | 8.9 | 106. | 6.0 | 28. | 2 | 0.21 | 8.2 |
| 2.0 | 20.8 | 8.9 | 106. | 5.9 | 29. | 2 | 0.25 | 4.8 |
| 3.0 | 20.3 | 8.8 | 103. | 5.9 | 29. | 2 | 0.25 | 5.4 |
| 4.0 | 20.2 | 8.7 | 102. | 5.8 | 29. | 2 | 0.22 | 4.7 |
| 5.0 | 20.0 | 8.6 | 101. | 5.7 | 29. | 2 | 0.27 | 7.4 |
| 6.0 | 18.7 | 6.5 | 73. | 5.3 | 30. | 2 | 0.19 | 5.9 |
| 7.0 | 16.6 | 3.5 | 38. | 5.1 | 30. | 5 | 0.23 | 7.3 |
| 8.0 | 14.0 | 1.4 | 14. | 5.0 | 30. | 8 | 0.27 | 8.6 |
| 8.7 | 13.0 | 0.6 | 6. | 5.2 | 36. | 10 | 0.35 | 9.4 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.6 | 0.9 | 2.6 |
| 1.0 | 0.5 | 0.9 | |
| 2.0 | 0.5 | 0.4 | |
| 3.0 | 0.5 | 0.4 | 2.5 |
| 4.0 | 0.6 | 0.4 | |
| 5.0 | 0.4 | 0.5 | |
| 6.0 | 0.6 | 1.2 | 3.2 |
| 7.0 | 0.6 | 0.7 | |
| 8.0 | 0.7 | 1.1 | |
| 8.7 | 0.6 | 1.4 | 5.9 |

continued,

Table 45 , cont.

CANN'S LAKE C42.B SEPTEMBER 3 1976 AIR TEMP 12C SECCHI 8.3M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 17.3 | 9.2 | 101. | 5.9 | 28. | 5 | 0.21 | 4.7 |
| 1.0 | 17.3 | 9.1 | 100. | 5.9 | 28. | | | |
| 2.0 | 17.3 | 9.0 | 100. | 5.9 | 28. | 5 | 0.27 | 4.1 |
| 3.0 | 17.3 | 9.0 | 100. | 5.9 | 28. | | | |
| 4.0 | 17.3 | 9.0 | 100. | 5.9 | 28. | 5 | 0.24 | 4.2 |
| 5.0 | 17.3 | 9.0 | 100. | 5.9 | 28. | 5 | 0.32 | 4.8 |
| 6.0 | 17.3 | 9.0 | 100. | 5.9 | 28. | 5 | 0.14 | 6.1 |
| 7.0 | 17.3 | 9.0 | 100. | 5.9 | 28. | 5 | 0.19 | 4.1 |
| 8.0 | 17.3 | 9.0 | 100. | 5.9 | 28. | | | |
| 9.0 | 17.1 | 8.6 | 95. | 5.8 | 29. | 5 | 0.36 | 7.4 |
| 9.2 | 17.1 | 5.5 | 60. | 5.7 | 34. | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.5 | 0.7 | 2.6 |
| 2.0 | 0.6 | 0.7 | |
| 4.0 | 0.3 | 1.1 | 2.6 |
| 5.0 | 0.5 | 0.8 | |
| 6.0 | 0.3 | 0.9 | 2.4 |
| 7.0 | 0.6 | 0.6 | |
| 9.0 | 1.0 | 3.5 | 2.8 |

continued,

Table 45 , cont.

CANN'S LAKE C42.B SEPTEMBER 20 1976 AIR TEMP 21C SECCHI 8.0M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 18.2 | 9.8 | 111. | 6.3 | 31. | 2 | 0.14 | 6.0 |
| 1.0 | 18.0 | 9.8 | 112. | 6.2 | 31. | 2 | 0.14 | 4.6 |
| 2.0 | 17.2 | 10.0 | 111. | 6.2 | 31. | 2 | 0.15 | 4.6 |
| 3.0 | 16.7 | 10.0 | 110. | 6.2 | 31. | 2 | 0.15 | 4.5 |
| 4.0 | 16.5 | 10.0 | 110. | 6.2 | 31. | 2 | 0.17 | 4.8 |
| 5.0 | 16.2 | 9.7 | 106. | 6.2 | 31. | 2 | 0.17 | 3.2 |
| 6.0 | 15.8 | 9.7 | 105. | 6.1 | 31. | 2 | 0.19 | 4.3 |
| 7.0 | 15.6 | 9.5 | 103. | 6.0 | 31. | 2 | 0.35 | 5.5 |
| 8.0 | 15.2 | 7.6 | 81. | 5.6 | 31. | 8 | 1.00 | 12.6 |
| 8.2 | 15.2 | 5.0 | 54. | 5.8 | 43. | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.7 | 0.6 | 0.9 |
| 1.0 | 0.5 | 0.4 | |
| 2.0 | 0.5 | 0.5 | 0.8 |
| 3.0 | 0.4 | 0.6 | |
| 4.0 | 0.4 | 0.6 | 1.2 |
| 5.0 | 0.6 | 0.7 | |
| 6.0 | 0.9 | 0.5 | 1.1 |
| 7.0 | 0.9 | 1.0 | |
| 8.0 | 0.2 | 0.7 | 1.6 |

CANN'S LAKE C42.B OCTOBER 26 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 7.0 | | | 6.2 | 32. | 12 | 0.40 | 5.5 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.4 | 1.2 | 1.9 |

Table 46 . Limnological measurements in MacDougall's Lake C43a, C.B.H. National Park.

MACDOUGALL'S LAKE C43 A MARCH 11 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | 6.3 | 64. | 8 | 0.20 | |

MACDOUGALL'S LAKE C43A JUNE 16 1976 AIR TEMP 25C SECCHI BOTTOM

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 20.0 | 9.7 | 114. | 6.2 | 31. | 10 | 0.34 | 4.9 |
| 1.0 | 20.0 | 9.7 | 114. | 6.2 | 31. | 10 | 0.30 | 4.1 |
| 2.0 | 19.0 | 9.9 | 114. | 6.3 | 31. | 10 | 0.25 | 5.6 |
| 2.9 | 19.0 | 9.9 | 114. | 6.1 | 36. | 10 | 1.00 | 15.2 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.3 | 0.4 | 2.3 |
| 1.0 | 0.4 | 0.1 | 2.2 |
| 2.0 | 0.7 | 0.3 | 0.8 |
| 2.9 | 4.5 | 2.1 | 0.9 |

continued,

Table 46 ,cont.

MACDOUGALL'S LAKE C43A JULY 13 1976 AIR TEMP 13C SECCHI 7.6M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 20.5 | 8.7 | 104. | 6.3 | 30. | 2 | 0.28 | 4.8 |
| 1.0 | 20.5 | 8.7 | 104. | 6.3 | 30. | 2 | 0.22 | 5.9 |
| 2.0 | 20.5 | 8.7 | 104. | 6.3 | | | | |
| 3.0 | 20.5 | 8.7 | 104. | 6.3 | 30. | 2 | 0.25 | 3.5 |
| 4.0 | 17.5 | 10.6 | 119. | 6.3 | 30. | 2 | 0.18 | 3.3 |
| 5.0 | 13.8 | 12.9 | 135. | 5.9 | 30. | 2 | 0.20 | 5.2 |
| 6.0 | 11.5 | 13.6 | 135. | 5.8 | 32. | 3 | 0.27 | 8.2 |
| 7.0 | 10.0 | 13.5 | 129. | 5.7 | 32. | | | |
| 8.0 | 9.3 | 13.1 | 123. | 5.7 | 32. | 5 | 0.30 | 6.2 |
| 9.0 | 8.8 | 12.1 | 122. | 5.6 | 32. | 15 | 4.50 | 22.3 |
| 9.3 | 8.8 | 10.8 | 101. | | | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.5 | 0.2 | 1.9 |
| 1.0 | 0.6 | 0.3 | 1.8 |
| 2.0 | | | 2.1 |
| 3.0 | 0.5 | 0.3 | |
| 4.0 | 0.8 | 0.4 | 2.0 |
| 5.0 | 1.7 | 1.2 | 2.6 |
| 6.0 | 1.8 | 0.4 | |
| 7.0 | | | 2.4 |
| 8.0 | 2.0 | 0.1 | |
| 9.0 | 6.4 | 6.9 | |

continued,

Table 46 , cont.

MACDOUGALL'S LAKE C43A JULY 20 1976 AIR TEMP 22C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | 6.6 | 34. | 7.5 | 0.19 | 5.2 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.3 | 0.3 | 3.0 |

MACDOUGALL'S LAKE C43A AUGUST 3 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 21.0 | | | 7.0 | 33. | 2 | 0.13 | 5.4 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.8 | 0.6 | |

continued,

Table 46 , cont.

MACDOUGALL'S LAKE C43A AUGUST 9 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 22.0 | | | 6.4 | 35. | 10 | 0.27 | 5.2 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.9 | 0.0 | |

MACDOUGALL'S LAKE C43A AUGUST 16 1976 AIR TEMP 24C SECCHI 7.0M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 20.7 | 9.1 | 108. | 6.1 | 32. | 2 | 0.17 | 7.2 |
| 1.0 | 20.5 | 9.1 | 108. | 6.2 | 32. | | | |
| 2.0 | 20.3 | 9.1 | 107. | 6.1 | 32. | | | |
| 3.0 | 20.2 | 9.1 | 107. | 6.1 | 32. | 2 | 0.11 | 6.4 |
| 4.0 | 20.1 | 9.1 | 107. | 6.1 | 32. | | | |
| 5.0 | 19.0 | 10.3 | 118. | 6.3 | 32. | 2 | 0.20 | 7.6 |
| 6.0 | 14.7 | 15.3 | 150. | 5.7 | 33. | 5 | 0.30 | 10.0 |
| 7.0 | 11.5 | 12.3 | 120. | 5.4 | 34. | 5 | 0.18 | 9.5 |
| 8.0 | 10.3 | 10.8 | 103. | 5.4 | 34. | 8 | 0.19 | 7.6 |
| 9.0 | 9.2 | 7.9 | 73. | 5.3 | 34. | 8 | 0.15 | 5.7 |
| 10.0 | 9.0 | 6.4 | 58. | 5.2 | 35. | 8 | 0.22 | 6.6 |
| 11.0 | 8.7 | 4.8 | 44. | 5.4 | 40. | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.8 | 0.4 | 1.4 |
| 3.0 | 0.8 | 0.2 | 1.7 |
| 5.0 | 2.9 | 0.6 | |
| 6.0 | 5.6 | 0.6 | 2.1 |
| 7.0 | 1.7 | 1.4 | |
| 8.0 | 2.6 | 0.7 | |
| 9.0 | 1.2 | 0.4 | |
| 10.0 | 0.6 | 0.7 | 6.4 |
| 11.0 | | | 6.6 |

continued,

Table 46, cont.

MACDOUGALL'S LAKE C43A SEPTEMBER 2 1976 SECCHI 7.0M

| DEPTH M | TEMP. C | DISSOLVED OXYGEN MG/L | DISSOLVED OXYGEN %SAT'N | PH | CONDUCTANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBIDITY APHA UNITS | TOTAL PHOSPHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 18.2 | 9.3 | 104. | 6.3 | 31. | 5 | 0.26 | 6.4 |
| 1.0 | 18.0 | 9.2 | 104. | 6.2 | 31. | 5 | 0.19 | 7.3 |
| 2.0 | 18.0 | 9.3 | 104. | 6.2 | 32. | 5 | 0.21 | 7.4 |
| 3.0 | 18.0 | 9.2 | 104. | 6.2 | 32. | 5 | 0.23 | 6.8 |
| 4.0 | 17.9 | 9.3 | 104. | 6.2 | 32. | 5 | 0.27 | 10.3 |
| 5.0 | 17.9 | 9.2 | 103. | 6.2 | 32. | 5 | 0.26 | 11.1 |
| 6.0 | 17.8 | 9.2 | 103. | 6.1 | 32. | 8 | 0.25 | 9.1 |
| 7.0 | 13.5 | 10.4 | 106. | 5.4 | 34. | 5 | 0.22 | 11.5 |
| 8.0 | 11.3 | 8.2 | 80. | 5.3 | 34. | 8 | 0.26 | 8.9 |
| 9.0 | 9.8 | 3.6 | 34. | 5.2 | 35. | 8 | 0.29 | 7.9 |
| 10.0 | 9.2 | 1.4 | 13. | 5.2 | 36. | 8 | 0.28 | 9.2 |
| 11.0 | 9.0 | 0.3 | 3. | 5.2 | 36. | 8 | 0.26 | 9.6 |
| 11.4 | 9.0 | 0.2 | 2. | 5.6 | 42. | | | |

| DEPTH M | CHLOROPHYLL A MG/M3 | PHAEOPHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.5 | 0.7 | 1.2 |
| 1.0 | 0.5 | 0.6 | |
| 2.0 | 0.7 | 0.5 | |
| 3.0 | 1.0 | 0.3 | 1.6 |
| 4.0 | 1.6 | 1.0 | |
| 5.0 | 2.7 | 0.5 | |
| 6.0 | 2.5 | 0.5 | 2.1 |
| 7.0 | 3.8 | 0.6 | |
| 8.0 | 0.8 | 0.8 | |
| 9.0 | 1.2 | 0.5 | 6.5 |
| 10.0 | 1.0 | 0.8 | |
| 11.0 | 0.5 | 1.3 | |

continued,

Table 46, cont.

MACDOUGALL'S LAKE C43A SEPTEMBER 2 1976 SECCHI 7.0M STATION B

| DEPTH M | TEMP. C | DISSOLVED OXYGEN MG/L | DISSOLVED OXYGEN %SAT'N | PH | CONDUCTANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBIDITY APHA UNITS | TOTAL PHOSPHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 18.0 | 9.4 | 106. | 6.2 | 31. | | | |
| 1.0 | 18.0 | 9.7 | 109. | 6.2 | 31. | | | |
| 2.0 | 18.0 | 9.8 | 110. | 6.2 | 31. | 5 | 0.22 | 3.6 |
| 3.0 | 18.0 | 9.2 | 103. | 6.2 | 31. | | | |
| 4.0 | 18.0 | 9.2 | 103. | 6.2 | 31. | | | |
| 5.0 | 18.0 | 9.2 | 103. | 6.2 | 31. | | | |
| 6.0 | 17.8 | 9.3 | 104. | 6.1 | 31. | | | |
| 7.0 | 13.4 | 10.0 | 102. | 5.5 | 33. | 8 | 0.28 | 9.4 |
| 8.0 | 11.7 | 3.0 | 30. | 5.2 | 34. | | | |

| DEPTH M | CHLOROPHYLL A MG/M3 | PHAEOPHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 2.0 | 0.6 | 0.4 | |
| 7.0 | 3.1 | 0.9 | |

continued,

Table 46, cont.

MACDOUGALL'S LAKE C43A SEPT 20 1976 AIR TEMP 21C SECCHI 9.0M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 17.7 | 9.7 | 108. | 6.2 | 32. | 2 | 0.15 | 4.2 |
| 1.0 | 17.5 | 9.8 | 109. | 6.2 | 32. | | | |
| 2.0 | 17.1 | 10.0 | 110. | 6.3 | 32. | 2 | 0.21 | 4.0 |
| 3.0 | 16.7 | 10.0 | 109. | 6.3 | 32. | 2 | 0.33 | 3.2 |
| 4.0 | 16.4 | 10.1 | 110. | 6.4 | 32. | 2 | 0.37 | 6.8 |
| 5.0 | 16.1 | 10.0 | 108. | 6.3 | 32. | 2 | 0.21 | 5.4 |
| 6.0 | 15.7 | 9.8 | 105. | 6.1 | 32. | 2 | 0.18 | 6.3 |
| 7.0 | 15.4 | 9.3 | 100. | 5.9 | 32. | 2 | 0.24 | 5.2 |
| 8.0 | 12.7 | 4.9 | 49. | 5.3 | 36. | 2 | 0.26 | 4.6 |
| 9.0 | 10.4 | 2.1 | 20. | 5.2 | 37. | 2 | 0.27 | 7.4 |
| 10.0 | 9.4 | 0.2 | 2. | 5.4 | 40. | | | |
| 10.5 | 9.3 | 0.1 | 1. | 5.5 | 42. | 5 | 6.50 | 12.3 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.2 | 0.6 | 1.4 |
| 2.0 | 0.3 | 0.5 | |
| 3.0 | 1.1 | 0.5 | 1.4 |
| 4.0 | 2.2 | 1.2 | |
| 5.0 | 2.8 | 1.3 | |
| 6.0 | 2.0 | 1.6 | 1.3 |
| 7.0 | 1.0 | 0.7 | |
| 8.0 | 1.1 | 0.6 | |
| 9.0 | 0.6 | 0.4 | 6.4 |
| 10.5 | 1.6 | 5.6 | |

MACDOUGALL'S LAKE C43A OCTOBER 26 1976 AIR TEMP 14C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 9.0 | | | 6.3 | 33. | 20 | 0.50 | 6.7 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 2.7 | 7.1 | 3.1 |

Table 47 . Limnological measurements in Gull Lake C44.6.1d, C.B.H.National Park.

GULL LAKE C44.6.1D NOVEMBER 26 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 1.0 | | | 4.8 | 40. | 75 | 0.50 | 12.9 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.1 | 0.3 | |

GULL LAKE C44.6.1D AUGUST 9 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | 5.7 | 31. | 60 | 0.38 | 30.9 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.2 | 0.7 | 2.0 |

Table 48 . Limnological measurements in Two Island Lake, C44.8a, C.B.H. National Park.

TWO ISLAND LAKE C44.8A APRIL 23 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 1.0 | | | | 4.6 | 46. | 80 | 0.90 | |
| 1.5 | | | | 4.5 | 36. | 90 | 0.80 | |
| 3.0 | | | | 4.9 | 38. | 90 | 1.40 | |

TWO ISLAND LAKE C44.8A NOVEMBER 25 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 2.0 | | | 5.0 | 34. | 60 | 0.50 | 6.8 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.5 | 0.5 | |

TWO ISLAND LAKE C44.8A AUGUST 9 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | 5.4 | 34. | 40 | 0.37 | 13.1 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.5 | 0.6 | 1.6 |

continued,

Table 48, cont.

TWO ISLAND LAKE C44.8A AUGUST 12 1976 AIR TEMP 24C SECCHI 3.6M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 19.0 | 8.6 | 96. | 6.2 | 18. | 35 | 0.45 | 10.2 |
| 1.0 | | 8.8 | | 5.8 | 18. | 35 | 0.38 | 10.5 |
| 2.0 | 20.0 | 8.8 | 99. | 5.7 | 18. | 35 | 0.41 | 5.7 |
| 3.0 | | 8.7 | | 5.3 | 19. | 35 | 0.41 | 4.1 |
| 4.0 | | 8.7 | | 5.6 | 18. | 35 | 0.40 | 7.9 |
| 4.8 | 19.5 | 6.5 | 72. | 5.6 | 18. | 35 | 0.36 | 5.2 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.7 | 0.9 | 1.6 |
| 1.0 | 0.6 | 1.0 | 1.4 |
| 2.0 | 0.5 | 1.0 | 1.0 |
| 3.0 | 0.6 | 0.8 | 1.3 |
| 4.0 | 0.6 | 0.9 | 1.3 |
| 4.8 | 0.6 | 0.9 | 1.3 |

Table 49 . Limnological measurements in Indian Lake C44.9.1.2a, C.B.H. National Park.

INDIAN LAKE C44.9.1.2A NOVEMBER 25 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 2.0 | | | 5.6 | 34. | 60 | 0.50 | 10.7 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.5 | 0.5 | |

INDIAN LAKE C44.9.1.2A AUGUST 9 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 19.0 | | | 6.1 | 20. | 40 | 0.47 | 38.3 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.7 | 1.4 | 1.1 |

Table 50 . Limnological measurements in White Hill Lake C44a, C.B.H. National Park.

WHITE HILL LAKE C44A MARCH 5 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | 5.0 | 29. | 130 | 0.46 | |

WHITE HILL LAKE C44A NOVEMBER 26 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 1.5 | | | 4.8 | 49. | 100 | 1.20 | 15.5 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.2 | 0.7 | |

WHITE HILL LAKE C44A AUGUST 9 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 19.0 | | | 5.5 | 37. | 80 | 0.94 | 27.8 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.7 | 1.0 | 1.7 |

Table 51 . Limnological measurements in Freshwater Lake C45a, C.B.H. National Park.

FRESHWATER LAKE C45A MARCH 21 1973 ICE 0.6M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.6 | | 14.0 | 100 | 6.7 | 138 | 8 | | |
| 1.0 | 1.2 | | | | | | | |
| 2.0 | 2.0 | | | | | | | |
| 3.0 | 2.2 | 13.5 | 102 | 6.8 | 210 | 5 | | |
| 4.0 | 2.5 | | | | | | | |
| 5.0 | 2.6 | 12.0 | 91 | 6.8 | 210 | 5 | | |
| 6.0 | 2.8 | | | | | | | |
| 7.0 | 2.9 | 10.0 | 77 | 6.7 | 212 | 5 | | |
| 8.0 | 3.0 | 9.5 | 73 | 6.8 | 214 | 5 | | |
| 9.0 | 3.0 | 9.0 | 69 | 6.7 | 213 | 5 | | |
| 10.0 | 3.8 | 9.0 | 70 | | | | | |

FRESHWATER LAKE C45A MARCH 10 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | 6.7 | 122. | 8 | 0.12 | |

FRESHWATER LAKE C45A JUNE 27 1975 AIR TEMP 25C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 21.0 | | | 7.2 | 149 | 5 | | 5.1 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.0 | 0.4 | |

continued,

Table 51 , cont.

FRESHWATER LAKE C45A NOV 27 1975

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 4.8 | | | 6.8 | 168. | 5 | 0.30 | 11.2 |

FRESHWATER LAKE C45A JAN 13 1976 SECCHI 5.0M ICE 0.4M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.4 | 1.0 | 15.5 | 103 | 6.9 | 133 | 8 | 0.20 | |
| 1.0 | 1.5 | 14.5 | 107 | 7.2 | | | | |
| 2.0 | 1.7 | 14.3 | 106 | 7.2 | | | | |
| 3.0 | 1.8 | 14.5 | 108 | 7.2 | 142 | 5 | 0.32 | 6.7 |
| 5.0 | 2.0 | 14.0 | 105 | 7.0 | 145 | 5 | 0.43 | 6.0 |
| 7.0 | 2.1 | 13.8 | 104 | 7.0 | 147 | 5 | 0.39 | 6.7 |
| 8.0 | 2.5 | | | | | | | |
| 10.0 | 2.8 | 13.4 | 103 | 6.8 | 147 | 5 | 0.36 | 9.4 |
| 10.6 | 3.0 | 13.4 | 103 | 6.8 | | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.4 | 1.6 | 0.9 | 4.8 |
| 1.0 | 1.1 | 0.3 | |
| 3.0 | 2.7 | 0.1 | 6.7 |
| 5.0 | 3.4 | 0.3 | 4.6 |
| 7.0 | 2.0 | 1.1 | 6.8 |
| 10.0 | 2.2 | 0.5 | 5.6 |

continued,

Table 51 , cont.

FRESHWATER LAKE C45A FEB 17 1976 ICE 0.4M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.4 | 0.5 | 17.6 | 127 | 6.6 | 113 | 10 | 0.17 | 14.7 |
| 1.0 | 1.2 | 14.1 | 103 | 6.8 | | | | |
| 2.0 | 1.5 | 14.2 | 105 | 6.9 | 145 | 10 | 0.20 | 7.8 |
| 3.0 | 1.5 | 14.1 | 104 | 6.8 | | | | |
| 4.0 | 1.5 | 14.0 | 103 | 6.8 | 150 | 10 | 0.26 | 9.1 |
| 5.0 | 1.5 | 13.9 | 103 | 6.8 | | | | |
| 6.0 | 1.6 | 13.4 | 100 | 6.7 | 154 | 10 | 0.23 | 7.7 |
| 7.0 | 1.6 | 13.3 | 99 | 6.7 | | | | |
| 8.0 | 1.6 | 12.8 | 95 | 6.6 | 158 | 10 | | 9.9 |
| 9.0 | 1.7 | 12.0 | 89 | 6.5 | | | | |
| 10.0 | 1.9 | 11.2 | 84 | 6.4 | | | | |
| 11.0 | 2.0 | 10.9 | 82 | 6.4 | 162 | 10 | 0.18 | 8.3 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.4 | 2.4 | 0.0 | 4.4 |
| 2.0 | 2.8 | 0.3 | 4.0 |
| 4.0 | 3.2 | 0.3 | |
| 6.0 | 3.2 | 0.3 | 4.0 |
| 8.0 | 2.5 | 0.0 | |
| 11.0 | 2.0 | 0.1 | 4.5 |

continued,

Table 51, cont.

FRESHWATER LAKE C45A MARCH 23 1976 AIR TEMP 2C ICE 0.4M

| DEPTH M | TEMP. C | DISSOLVED OXYGEN MG/L | DISSOLVED OXYGEN %SAT'N | PH | CONDUCTANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBIDITY APHA UNITS | TOTAL PHOSPHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.4 | 0.5 | 14.4 | 104 | 6.3 | 64 | 0 | 0.18 | 3.6 |
| 1.0 | 1.6 | 13.4 | 100 | 6.6 | 67 | 8 | 0.26 | 4.9 |
| 2.0 | 2.1 | 13.2 | 99 | 6.8 | | | | |
| 3.0 | 2.2 | 13.1 | 99 | 6.8 | | | | 6.8 |
| 4.0 | 2.2 | 13.0 | 98 | 6.8 | | | | |
| 5.0 | 2.3 | 13.0 | 99 | | 148 | 8 | 0.21 | 6.0 |
| 6.0 | 2.3 | 13.0 | 99 | | | | | |
| 7.0 | 2.3 | 12.9 | 98 | 6.7 | 162 | 8 | 0.15 | 5.7 |
| 8.0 | 2.3 | 11.5 | 87 | 6.5 | | | | |
| 9.0 | 2.4 | 10.8 | 82 | 6.5 | | | | |

| DEPTH M | CHLOROPHYLL A MG/M3 | PHAEOPHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.4 | 0.5 | 0.1 | 2.6 |
| 1.0 | 0.4 | 0.0 | 2.9 |
| 3.0 | 4.5 | 0.0 | |
| 5.0 | 5.3 | 0.0 | 3.2 |
| 7.0 | 5.2 | 0.0 | |

continued,

Table 51 , cont.

FRESHWATER LAKE C45A MAY 4 1975 AIR TEMP 7C SECCHI 4.0M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.1 | 6.6 | 13.1 | 110 | 7.1 | 155 | 7.5 | 0.35 | 8.7 |
| 1.0 | 6.6 | 13.2 | 111 | 7.1 | | | | |
| 3.0 | 6.6 | 13.2 | 111 | 7.1 | | | | |
| 5.0 | 6.6 | 13.2 | 111 | 7.1 | 155 | 7.5 | 0.52 | 10.5 |
| 10.0 | 6.6 | 13.2 | 111 | 7.1 | 157 | 7.5 | 0.46 | 10.5 |
| 11.0 | 6.0 | 13.2 | 110 | 7.0 | | | | |
| 12.0 | 6.0 | 12.8 | 106 | 7.0 | | | | |
| 13.0 | 6.0 | 12.9 | 107 | 6.9 | | | | |
| 14.0 | 5.8 | 12.9 | 107 | 6.9 | 158 | 7.5 | 0.40 | 13.1 |
| 15.0 | 4.8 | 9.5 | 77 | 6.8 | | | | |
| 16.0 | 3.7 | 0.3 | 3 | 6.6 | 420 | 7.5 | 0.52 | 14.9 |
| 16.8 | 3.7 | 0.2 | 2 | 6.7 | | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.1 | 4.9 | 0.0 | 3.5 |
| 1.0 | 5.3 | | |
| 3.0 | 6.4 | | |
| 5.0 | 5.0 | 0.0 | 3.3 |
| 10.0 | 4.5 | 0.05 | 3.3 |
| 14.0 | 5.1 | 0.0 | 3.6 |
| 16.0 | 3.6 | 0.24 | 7.3 |

continued,

Table 51 , cont.

FRESHWATER LAKE C45A MAY 26 1976 AIR TEMP 9C SECCHI 3.0M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.1 | 11.5 | 11.9 | 113 | 7.5 | 158 | 7.5 | 0.60 | 9.6 |
| 1.0 | 11.5 | 11.7 | 111 | 7.5 | | | | |
| 3.0 | 11.5 | 11.6 | 110 | 7.5 | | | | |
| 5.0 | 11.5 | 11.6 | 110 | 7.5 | 158 | 7.5 | 0.70 | 13.3 |
| 7.0 | 11.0 | 11.6 | 109 | 7.2 | | | | |
| 10.0 | 9.5 | 11.1 | 101 | 6.8 | 160 | 7.5 | 0.87 | 10.5 |
| 11.0 | 8.5 | 10.9 | 97 | 6.7 | | | | |
| 15.0 | 8.0 | 9.9 | 86 | 6.5 | 174 | 10 | 0.56 | 9.4 |
| 16.1 | 7.5 | 8.3 | 72 | 6.5 | 170 | 10 | 0.58 | 9.4 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.1 | 6.3 | 0.0 | 3.4 |
| 1.0 | | 0.0 | |
| 5.0 | 6.1 | 0.0 | 3.4 |
| 10.0 | 11.9 | 0.0 | 3.9 |
| 15.0 | 7.9 | 0.0 | 4.5 |
| 16.1 | 11.9 | 0.0 | 4.3 |

continued,

Table 51, cont.

FRESHWATER LAKE C45A JUNE 13 1976 AIR TEMP 14C SECCHI 4.6M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 14.0 | 10.2 | 103. | 7.1 | 142. | 2 | 0.22 | 10.9 |
| 1.0 | 14.0 | 10.1 | 102. | 7.1 | 142. | | | |
| 2.0 | 14.0 | 10.1 | 102. | 7.1 | 142. | 2 | 0.35 | 7.7 |
| 3.0 | 14.0 | 10.1 | 102. | 7.1 | 142. | | | |
| 4.0 | 14.0 | 10.1 | 102. | 7.1 | 146. | 2 | 0.26 | 11.2 |
| 5.0 | 14.0 | 10.1 | 102. | 7.1 | 146. | | | |
| 6.0 | 14.0 | 10.1 | 102. | 7.1 | 146. | 2 | 0.30 | 5.6 |
| 7.0 | 14.0 | 10.0 | 100. | 7.1 | 146. | | | |
| 9.0 | 14.0 | 10.0 | 100. | 7.1 | 146. | | | |
| 9.5 | 13.2 | 9.9 | 98. | 6.9 | 146. | 2 | 0.34 | 14.7 |
| 10.0 | 12.0 | 9.8 | 94. | 6.6 | 150. | | | |
| 11.0 | 9.5 | 8.9 | 80. | 6.4 | 155. | 2 | 0.28 | 6.2 |
| 12.0 | 9.0 | 8.6 | 77. | 6.4 | 160. | | | |
| 13.0 | 9.0 | 8.6 | 75. | 6.4 | 160. | 2 | 0.31 | 8.8 |
| 14.0 | 8.9 | 8.5 | 75. | 6.4 | 160. | | | |
| 15.0 | 8.6 | 8.3 | 73. | 6.4 | 160. | | | |
| 15.6 | 8.5 | 7.9 | 70. | 6.5 | 170. | 5 | 4.80 | 69.8 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.4 | 0.1 | 8.2 |
| 2.0 | 0.3 | 0.1 | 8.4 |
| 4.0 | 0.3 | 0.1 | 8.5 |
| 6.0 | 0.2 | 0.1 | 8.0 |
| 7.0 | 0.2 | 0.1 | |
| 9.5 | 0.3 | 0.1 | 8.4 |
| 10.0 | 1.5 | 0.5 | |
| 11.0 | 2.4 | 0.3 | 9.1 |
| 13.0 | 4.1 | 0.1 | 9.9 |
| 15.6 | 29.6 | 9.3 | 4.0 |

continued,

Table 51, cont.

FRESHWATER LAKE C45A JUNE 28 1976 AIR TEMP 20C SECCHI 6.0M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 19.2 | 9.4 | 106. | 7.3 | 138. | 2 | 0.22 | 5.5 |
| 1.0 | 19.2 | 9.4 | 105. | 7.2 | | | | |
| 2.0 | 19.0 | 9.4 | 105. | 7.2 | 137. | 2 | 0.18 | 6.4 |
| 3.0 | 18.6 | 9.4 | 104. | 7.2 | 137. | | | |
| 4.0 | 18.6 | 9.4 | 104. | 7.2 | 137. | 2 | 0.18 | 6.3 |
| 5.0 | 18.5 | 9.2 | 102. | 7.1 | 137. | | | |
| 5.5 | 18.2 | 9.4 | 103. | 7.0 | 137. | | | |
| 6.0 | 18.0 | 9.8 | 107. | 7.0 | 137. | 3 | 0.25 | 4.6 |
| 7.0 | 15.2 | 9.8 | 101. | 6.9 | 135. | | | |
| 8.0 | 14.2 | 9.5 | 96. | 6.7 | 136. | 2 | 0.23 | 4.5 |
| 9.0 | 13.5 | 8.9 | 89. | 6.6 | 136. | | | |
| 10.0 | 12.5 | 8.4 | 81. | 6.5 | 138. | 5 | 0.26 | 5.4 |
| 11.0 | 11.7 | 8.0 | 77. | 6.4 | 145. | 3 | 0.30 | 7.0 |
| 12.0 | 11.5 | 6.9 | 60. | 6.3 | 150. | | | |
| 13.0 | 9.8 | 6.7 | 61. | 6.3 | 150. | 3 | 0.28 | 6.3 |
| 14.0 | 9.5 | 6.2 | 57. | 6.3 | 150. | | | |
| 15.0 | 9.2 | 5.9 | 53. | 6.2 | 152. | | | |
| 16.0 | 9.2 | 5.6 | 50. | 6.2 | 152. | 11 | 1.75 | 23.0 |
| 16.3 | 9.2 | 4.0 | 36. | 6.6 | 228. | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.5 | 2.1 | 5.9 |
| 1.0 | | | 5.9 |
| 2.0 | 0.5 | 2.0 | 5.7 |
| 4.0 | 0.7 | 2.7 | 5.6 |
| 6.0 | 0.7 | 2.1 | 5.8 |
| 8.0 | 1.4 | 5.3 | 5.9 |
| 10.0 | | | 6.2 |
| 11.0 | 2.2 | 8.0 | |
| 13.0 | 2.0 | 7.6 | 7.5 |
| 16.0 | 8.2 | 29.4 | |

continued,

Table 51 , cont.

FRESHWATER LAKE C45A JULY 12 1976 AIR TEMP 20C SECCHI 9.0M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 23.0 | 9.4 | 112. | 7.4 | 150. | 5 | 0.16 | 4.2 |
| 1.0 | 22.8 | 9.4 | 112. | 7.4 | 150. | | 0.46 | 9.1 |
| 2.0 | 22.5 | 9.4 | 110. | 7.4 | 150. | | | |
| 3.0 | 22.2 | 9.4 | 110. | 7.4 | 150. | | 0.22 | 5.0 |
| 4.0 | 21.5 | 9.5 | 110. | 7.3 | 150. | | | |
| 5.0 | 20.0 | 9.6 | 108. | 7.2 | 150. | | 0.38 | 4.7 |
| 6.0 | 18.4 | 9.6 | 105. | 7.0 | 147. | | | |
| 7.0 | 16.6 | 9.6 | 102. | 6.8 | 145. | | 0.22 | 5.4 |
| 8.0 | 15.2 | 9.0 | 93. | 6.6 | 145. | | | |
| 9.0 | 13.3 | 7.4 | 73. | 6.4 | 150. | 5 | 0.52 | 12.3 |
| 10.0 | 12.4 | 7.0 | 67. | 6.3 | 152. | | | |
| 11.0 | 11.2 | 6.1 | 57. | 6.2 | 160. | 5 | 0.32 | 6.6 |
| 12.0 | 10.2 | 5.0 | 46. | 6.2 | 168. | | | |
| 13.0 | 9.8 | 4.5 | 41. | 6.2 | 168. | | 0.32 | 8.0 |
| 14.0 | 9.7 | 4.4 | 40. | 6.2 | 168. | | | |
| 15.0 | 9.5 | 4.0 | 36. | 6.2 | 168. | | 0.34 | 8.8 |
| 16.0 | 9.3 | 3.3 | 30. | 6.2 | 170. | | 0.42 | 7.7 |
| 16.1 | 9.2 | 3.2 | 28. | 6.2 | 170. | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.6 | 0.2 | 5.6 |
| 1.0 | 0.4 | 0.3 | |
| 3.0 | 0.5 | 0.3 | |
| 5.0 | 0.5 | 0.2 | 6.0 |
| 7.0 | 0.7 | 0.5 | |
| 9.0 | 1.2 | 0.9 | |
| 11.0 | 1.1 | 0.6 | |
| 13.0 | 0.9 | 0.8 | 9.6 |
| 15.0 | 0.8 | 1.1 | |
| 16.0 | 1.1 | 0.7 | 8.4 |

continued,

Table 51 , cont.

FRESHWATER LAKE C45A JULY 15 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 19.0 | 9.2 | 102. | | | | | |
| 1.0 | 19.0 | 8.9 | 99. | | | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.7 | 0.6 | 4.0 |

continued,

Table 51, cont.

FRESHWATER LAKE C45A JULY 26 1976 AIR TEMP 17C SECCHI 6.5M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 20.5 | 9.6 | 109. | 7.6 | 150. | 2 | 0.24 | 7.4 |
| 1.0 | 20.5 | 9.4 | 108. | 7.6 | 152. | 2 | 0.26 | 5.4 |
| 2.0 | 20.5 | 9.4 | 108. | 7.6 | 152. | | | |
| 3.0 | 20.5 | 9.4 | 107. | 7.5 | 152. | 2 | 0.22 | 7.4 |
| 4.0 | 20.5 | 9.4 | 107. | 7.5 | 152. | | | |
| 5.0 | 20.5 | 9.4 | 107. | 7.5 | 152. | | | |
| 6.0 | 20.5 | 9.4 | 107. | 7.5 | 152. | | | |
| 7.0 | 18.4 | 9.0 | 99. | 6.9 | 150. | 2 | 0.34 | 6.1 |
| 7.5 | 17.0 | 8.8 | 94. | 6.8 | 150. | | | |
| 8.0 | 16.0 | 8.3 | 87. | 6.7 | 150. | 2 | 0.41 | 7.9 |
| 9.0 | 14.2 | 7.0 | 70. | 6.5 | 152. | 2 | 0.43 | 6.2 |
| 10.0 | 13.1 | 6.0 | 58. | 6.4 | 158. | | | |
| 11.0 | 11.2 | 4.2 | 40. | 6.3 | 170. | 2 | 0.47 | 8.0 |
| 12.0 | 10.8 | 3.8 | 35. | 6.3 | 170. | | | |
| 13.0 | 10.5 | 3.4 | 30. | 6.3 | 170. | 2 | 0.37 | 12.7 |
| 14.0 | 10.5 | 3.0 | 28. | 6.3 | 175. | | | |
| 15.0 | 10.2 | 2.6 | 24. | 6.3 | 175. | 2 | 0.46 | 6.1 |
| 15.8 | 10.1 | 2.0 | 18. | 6.3 | 175. | | | |
| 15.9 | 10.0 | 1.7 | 15. | | | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.8 | 0.4 | 4.3 |
| 1.0 | 0.8 | 0.3 | 4.1 |
| 3.0 | 0.9 | 0.5 | |
| 5.0 | | | 3.6 |
| 7.0 | 0.9 | 0.4 | 5.0 |
| 8.0 | 1.3 | 0.4 | |
| 9.0 | 1.4 | 1.3 | 5.3 |
| 11.0 | 1.1 | 1.3 | |
| 13.0 | 0.8 | 1.8 | 7.8 |
| 15.0 | 0.7 | 1.6 | 7.9 |

continued,

Table 51 , cont.

FRESHWATER LAKE C45A AUGUST 10 1976 AIR TEMP 27C SECCHI 7.0M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 22.0 | 8.9 | 104. | 7.4 | 138. | 8 | 0.22 | 4.7 |
| 1.0 | 21.8 | 8.9 | 104. | 7.4 | 138. | | | |
| 2.0 | 21.8 | 8.7 | 102. | 7.4 | 142. | 8 | 0.28 | 13.5 |
| 3.0 | 21.5 | 8.8 | 102. | 7.4 | 145. | 8 | 0.29 | 6.1 |
| 4.0 | 20.8 | 8.7 | 100. | 7.3 | 145. | 8 | 0.32 | 5.3 |
| 5.0 | 20.4 | 8.6 | 99. | 7.3 | 146. | 8 | 0.24 | 6.1 |
| 6.0 | 20.0 | 8.4 | 96. | 7.2 | 146. | 8 | 0.26 | 4.7 |
| 7.0 | 19.5 | 8.4 | 94. | 7.0 | 146. | 8 | 0.22 | 4.7 |
| 8.0 | 17.2 | 7.6 | 82. | 6.6 | 146. | 8 | 0.31 | 4.6 |
| 9.0 | 13.7 | 6.2 | 62. | 6.2 | 146. | 10 | 0.35 | 4.6 |
| 10.0 | 12.5 | 5.1 | 50. | 6.1 | 150. | 8 | 0.29 | 4.8 |
| 11.0 | 11.2 | 3.4 | 32. | 6.0 | 160. | 10 | 0.26 | 5.6 |
| 12.0 | 10.5 | 2.0 | 19. | 6.0 | 165. | 10 | 0.28 | 5.9 |
| 13.0 | 10.0 | 1.4 | 12. | 6.0 | 168. | | | |
| 14.0 | 10.0 | 1.0 | 9. | 6.1 | 170. | 10 | 0.24 | 6.5 |
| 15.0 | 10.0 | 0.8 | 7. | 6.1 | 170. | | | |
| 16.0 | 9.8 | 0.4 | 4. | 6.1 | 172. | 10 | 0.29 | 9.1 |
| 16.3 | 9.8 | 0.2 | 2. | 6.6 | 230. | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.9 | 0.6 | 4.4 |
| 2.0 | 0.8 | 0.4 | |
| 3.0 | 1.0 | 0.4 | 3.6 |
| 4.0 | 0.8 | 0.4 | |
| 5.0 | 0.9 | 0.4 | |
| 6.0 | 1.0 | 0.4 | |
| 7.0 | 1.0 | 0.5 | 3.8 |
| 8.0 | 1.0 | 0.3 | |
| 9.0 | 1.1 | 0.4 | |
| 10.0 | 1.4 | 1.0 | |
| 11.0 | 1.1 | 1.1 | 4.8 |
| 12.0 | 1.0 | 1.2 | |
| 14.0 | 0.8 | 0.9 | |
| 16.0 | 0.6 | 1.3 | 8.1 |

continued,

Table 51 ,cont.

FRESHWATER LAKE C45A AUGUST 23 1976 AIR TEMP 26C SECCHI 9.3M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 22.1 | 9.4 | 109. | 7.3 | 155. | 8 | 0.21 | 4.7 |
| 1.0 | 22.1 | 9.4 | 109. | 7.3 | 155. | | | |
| 2.0 | 22.1 | 9.4 | 109. | 7.3 | 155. | 8 | 0.27 | 6.9 |
| 3.0 | 21.0 | 9.6 | 110. | 7.3 | 155. | | | |
| 4.0 | 20.6 | 9.5 | 109. | 7.3 | 155. | 8 | 0.38 | 7.1 |
| 5.0 | 20.4 | 9.4 | 108. | 7.2 | 155. | | | |
| 6.0 | 20.1 | 9.4 | 107. | 7.2 | 155. | 8 | 0.18 | 4.3 |
| 7.0 | 19.8 | 9.2 | 104. | 7.1 | 155. | | | |
| 8.0 | 19.5 | 8.8 | 100. | 6.8 | 155. | 8 | 0.22 | 5.2 |
| 9.0 | 15.2 | 6.0 | 62. | 6.2 | 155. | 8 | 0.34 | 5.5 |
| 10.0 | 13.8 | 4.1 | 40. | 6.2 | 155. | 8 | 0.41 | 7.4 |
| 11.0 | 11.7 | 3.0 | 28. | 6.1 | 165. | 8 | 0.52 | 11.2 |
| 12.0 | 11.0 | 1.1 | 10. | 6.1 | 170. | 8 | 0.47 | 8.1 |
| 13.0 | 10.6 | 0.8 | 6. | 6.1 | 170. | 10 | 0.56 | 8.1 |
| 14.0 | 10.5 | 0.3 | 3. | 6.1 | 170. | | | |
| 15.0 | 10.3 | 0.1 | 1. | 6.2 | 170. | 10 | 0.61 | 10.2 |
| 15.9 | 10.1 | 0.0 | 0. | 6.6 | 240. | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.9 | 0.3 | 4.9 |
| 2.0 | 0.8 | 0.2 | |
| 3.0 | | | 4.4 |
| 4.0 | 0.8 | 0.3 | |
| 6.0 | 1.0 | 0.6 | 5.2 |
| 8.0 | 1.1 | 0.6 | |
| 9.0 | 1.2 | 1.1 | 5.0 |
| 10.0 | 2.0 | 1.1 | |
| 11.0 | 1.9 | 1.2 | |
| 12.0 | 1.1 | 1.4 | 7.1 |
| 13.0 | 1.4 | 1.5 | |
| 15.0 | 1.1 | 1.6 | 7.6 |

continued,

Table 51 , cont.

FRESHWATER LAKE C45A AUGUST 31 1976 AIR TEMP 17C SECCHI 7.9M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 19.8 | 9.4 | 106. | 7.4 | 146. | | | |
| 1.0 | 19.8 | 9.3 | 105. | 7.4 | 146. | | | |
| 2.0 | 19.8 | 9.3 | 105. | 7.4 | 146. | 2 | 0.14 | 8.9 |
| 3.0 | 19.8 | 9.3 | 105. | 7.4 | 146. | | | |
| 4.0 | 19.8 | 9.3 | 105. | 7.4 | 148. | | | |
| 5.0 | 19.8 | 9.3 | 105. | 7.4 | 148. | | | |
| 6.0 | 19.8 | 9.4 | 106. | 7.4 | 146. | | | |
| 7.0 | 19.8 | 9.3 | 105. | 7.4 | 146. | 2 | 0.18 | 6.2 |
| 8.0 | 19.8 | 9.3 | 104. | 7.4 | 146. | | | |
| 9.0 | 15.6 | 4.8 | 50. | 6.4 | 150. | 2 | 0.16 | 5.4 |
| 10.0 | 12.7 | 2.8 | 27. | 6.3 | 158. | | | |
| 11.0 | 11.5 | 1.4 | 13. | 6.3 | 167. | | | |
| 12.0 | 10.9 | 0.5 | 5. | 6.3 | 168. | 2 | 0.44 | 10.3 |
| 13.0 | 10.7 | 0.1 | 1. | 6.3 | 168. | | | |
| 14.0 | 10.5 | 0.0 | 0. | 6.3 | 168. | | | |
| 15.0 | 10.4 | 0.0 | 0. | 6.4 | 168. | | | |
| 16.0 | 10.2 | 0.0 | 0. | 6.6 | 193. | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 2.0 | 1.2 | 1.3 | |
| 7.0 | 1.2 | 1.4 | |
| 9.0 | 1.5 | 1.5 | |
| 12.0 | 1.3 | 2.0 | |

continued,

Table 51 , cont.

FRESHWATER LAKE C45A AUGUST 31 1976 AIR TEMP 17C STATION B

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 19.8 | 9.4 | 106. | 7.4 | 150. | | | |
| 1.0 | 19.8 | 9.4 | 106. | 7.3 | 146. | | | |
| 2.0 | 19.8 | 9.4 | 106. | 7.3 | 146. | 2 | 0.24 | 8.6 |
| 3.0 | 19.8 | 9.3 | 104. | 7.3 | 146. | | | |
| 4.0 | 19.7 | 9.2 | 104. | 7.2 | 146. | | | |
| 5.0 | 19.6 | 9.1 | 103. | 7.2 | 146. | | | |
| 6.0 | 19.5 | 9.1 | 102. | 7.1 | 146. | | | |
| 7.0 | 19.2 | 8.6 | 97. | 7.0 | 148. | 2 | 0.27 | 6.2 |
| 8.0 | 18.8 | 8.2 | 91. | 6.8 | 148. | | | |
| 9.0 | 15.0 | 4.5 | 46. | 6.3 | 150. | | | |
| 10.0 | 12.3 | 2.2 | 21. | 6.2 | 160. | 2 | 0.22 | 8.8 |
| 10.9 | 11.4 | 0.8 | 7. | 6.3 | 175. | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 2.0 | 1.2 | 1.9 | |
| 7.0 | 1.1 | 1.8 | |
| 10.0 | 2.1 | 2.0 | |

continued,

Table 51 , cont.

FRESHWATER LAKE C45A SEPTEMBER 7 1976 AIR TEMP 18C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 18.5 | 9.4 | 103. | | | | | |
| 2.0 | 18.5 | 9.4 | 103. | | | | | |
| 4.0 | 18.4 | 9.5 | 104. | | | | | |
| 6.0 | 18.4 | 9.4 | 103. | | | | | |
| 8.0 | 18.0 | 9.0 | 98. | | | | | |
| 10.0 | 15.2 | 4.2 | 43. | | | | | |
| 11.0 | 12.0 | 1.4 | 13. | | | | | |
| 12.0 | 12.0 | 0.2 | 2. | | | | | |
| 14.0 | 11.0 | 0.1 | 1. | | | | | |
| 16.0 | 10.7 | 0.1 | 1. | | | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.3 | 1.7 | 3.4 |
| 10.0 | 2.4 | 1.9 | 5.8 |

continued,

Table 51 , cont.

FRESHWATER LAKE C45A SEPTEMBER 14 1976 AIR TEMP 20C SECCHI 7.0M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 17.5 | 9.6 | 104. | 7.1 | 149. | 2 | 0.18 | 6.4 |
| 1.0 | 17.5 | 9.6 | 104. | 7.1 | 149. | | | |
| 2.0 | 17.4 | 9.6 | 104. | 7.1 | 149. | 2 | 0.22 | 6.8 |
| 3.0 | 17.4 | 9.6 | 103. | 7.1 | 150. | | | |
| 4.0 | 17.3 | 9.6 | 103. | 7.1 | 150. | 2 | 0.22 | 5.3 |
| 5.0 | 17.3 | 9.6 | 103. | 7.1 | 150. | | | |
| 6.0 | 17.3 | 9.6 | 103. | 7.1 | 150. | 2 | 0.21 | 5.4 |
| 7.0 | 17.3 | 9.6 | 103. | 7.1 | 150. | | | |
| 8.0 | 17.3 | 9.6 | 103. | 7.1 | 150. | 2 | 0.22 | 5.6 |
| 9.0 | 17.3 | 9.6 | 103. | 7.1 | 150. | 2 | 0.22 | 5.4 |
| 10.0 | 17.1 | 9.5 | 102. | 7.0 | 150. | 2 | 0.22 | 5.4 |
| 10.5 | 14.2 | 2.5 | 24. | 6.2 | 170. | | | |
| 11.0 | 12.5 | 0.7 | 6. | 6.1 | 174. | 5 | 0.65 | 8.6 |
| 12.0 | 11.0 | 0.1 | 2. | 6.2 | 176. | 8 | 0.88 | 8.5 |
| 13.0 | 10.7 | 0.1 | 1. | 6.2 | 177. | 10 | 0.76 | 7.7 |
| 14.0 | 10.5 | 0.0 | 0. | 6.2 | 177. | | | |
| 15.0 | 10.3 | 0.0 | 0. | 6.3 | 177. | 18 | 0.90 | 11.8 |
| 16.0 | 10.2 | 0.0 | 0. | 6.4 | 185. | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.2 | 1.6 | 3.5 |
| 2.0 | 1.6 | 1.7 | |
| 3.0 | | | 3.7 |
| 4.0 | 1.5 | 1.6 | |
| 6.0 | 1.7 | 1.5 | 3.8 |
| 8.0 | 1.7 | 1.5 | |
| 9.0 | 2.2 | 1.8 | |
| 10.0 | 1.6 | 1.8 | 3.8 |
| 11.0 | 2.2 | 1.9 | |
| 12.0 | 1.6 | 2.5 | 6.8 |
| 13.0 | 1.5 | 3.0 | |
| 15.0 | 0.8 | 1.1 | 8.5 |

continued,

Table 51 , cont.

FRESHWATER LAKE C45A SEPTEMBER 30 1976 AIR TEMP 13C SECCHI 7.0M

| DEPTH M | TEMP. C | DISSOLVED OXYGEN MG/L | DISSOLVED OXYGEN %SATN | PH | CONDUCTANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBIDITY APHA UNITS | TOTAL PHOSPHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 15.7 | 9.2 | 96. | 7.2 | 142. | 2 | 0.24 | 5.2 |
| 1.0 | 15.7 | 9.0 | 94. | 7.1 | 142. | | | |
| 3.0 | 15.7 | 9.4 | 99. | 7.1 | 144. | 2 | 0.29 | 6.2 |
| 4.0 | 15.7 | 9.4 | 98. | 7.1 | 145. | | | |
| 5.0 | 15.7 | 9.4 | 98. | 7.1 | 145. | | | |
| 6.0 | 15.7 | 9.4 | 98. | 7.1 | 145. | 2 | 0.26 | 6.8 |
| 7.0 | 15.7 | 9.4 | 98. | 7.1 | 145. | | | |
| 8.0 | 15.7 | 9.5 | 99. | 7.1 | 145. | 2 | 0.24 | 6.4 |
| 9.0 | 15.7 | 9.4 | 98. | 7.0 | 145. | 2 | 0.20 | 7.1 |
| 10.0 | 15.7 | 9.5 | 99. | 7.0 | 145. | 2 | 0.28 | 6.5 |
| 11.0 | 15.7 | 9.4 | 98. | 7.0 | 145. | 2 | 0.30 | 6.1 |
| 12.0 | 13.0 | 0.3 | 3. | 6.2 | 168. | 5 | 0.32 | 5.9 |
| 13.0 | 10.7 | 0.1 | 1. | 6.2 | 170. | 8 | 1.00 | 8.8 |
| 14.0 | 10.5 | 0.1 | 1. | 6.2 | 170. | 8 | 1.20 | 7.6 |
| 15.0 | 10.5 | 0.1 | 1. | 6.3 | 170. | 8 | 2.45 | 8.0 |
| 16.0 | 10.3 | 0.1 | 1. | 6.3 | 170. | | | |

| DEPTH M | CHLOROPHYLL A MG/M3 | PHAEOPHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 2.5 | 0.5 | 5.3 |
| 3.0 | 2.6 | 0.0 | |
| 6.0 | 2.3 | 0.0 | 5.0 |
| 8.0 | 1.7 | 0.0 | |
| 9.0 | 1.9 | 0.0 | 5.3 |
| 10.0 | 2.3 | 0.0 | |
| 11.0 | 2.5 | 0.0 | |
| 12.0 | 2.7 | 0.0 | 5.4 |
| 13.0 | 2.3 | 0.3 | |
| 14.0 | 2.2 | 0.0 | |
| 15.0 | 1.6 | 0.0 | 8.5 |

continued,

Table 51 , cont.

FRESHWATER LAKE C45A OCTOBER 20 1976 AIR TEMP 9C SECCHI 6.8M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 10.6 | 11.1 | 103. | 7.7 | 135. | 2 | 0.21 | 7.1 |
| 2.0 | 10.6 | 11.0 | 103. | 7.7 | 135. | | | |
| 3.0 | 10.6 | 11.0 | 102. | 7.7 | 137. | 2 | 0.25 | 6.5 |
| 4.0 | 10.6 | 11.0 | 102. | 7.7 | 138. | | | |
| 5.0 | 10.6 | 11.0 | 102. | 7.7 | 139. | 2 | 0.28 | 6.4 |
| 6.0 | 10.6 | 10.9 | 102. | 7.7 | 139. | | | |
| 7.0 | 10.6 | 10.9 | 102. | 7.7 | 140. | 2 | 0.30 | 5.8 |
| 8.0 | 10.6 | 10.9 | 102. | 7.7 | 140. | 2 | 0.27 | 8.3 |
| 9.0 | 10.6 | 10.8 | 101. | 7.7 | 140. | 2 | 0.23 | 8.3 |
| 10.0 | 10.5 | 10.8 | 100. | 7.7 | 140. | 2 | 0.29 | 5.8 |
| 11.0 | 10.5 | 10.8 | 100. | 7.7 | 140. | 2 | 0.27 | 7.7 |
| 12.0 | 10.5 | 10.8 | 100. | 7.7 | 140. | 2 | 0.22 | 7.6 |
| 13.0 | 10.4 | 10.8 | 100. | 7.7 | 140. | 2 | 0.29 | 5.5 |
| 14.0 | 10.4 | 10.8 | 100. | 7.7 | 140. | 2 | 0.28 | 7.3 |
| 15.0 | 10.4 | 10.7 | 100. | 7.7 | 140. | 2 | 0.25 | 5.8 |
| 16.0 | 10.4 | 10.7 | 100. | 7.7 | 140. | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 3.3 | 10.0 | 4.6 |
| 3.0 | 2.9 | 9.0 | 4.5 |
| 5.0 | | 9.2 | |
| 7.0 | 2.6 | 8.2 | 5.3 |
| 8.0 | 2.9 | 8.9 | |
| 9.0 | 2.2 | 7.2 | |
| 10.0 | 2.9 | 9.2 | |
| 11.0 | 6.2 | 1.9 | 5.1 |
| 12.0 | 3.3 | 10.9 | |
| 13.0 | 1.6 | 5.0 | |
| 14.0 | 1.6 | 5.0 | |
| 15.0 | 2.2 | 9.2 | 4.2 |

continued,

Table 51 , cont,

FRESHWATER LAKE C45A NOVEMBER 24 1976 AIR TEMP 1C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 1.6 | 14.1 | 104. | 7.9 | 198. | 10 | 0.60 | 4.7 |
| 1.0 | 1.6 | 14.0 | 103. | 7.9 | 200. | | | |
| 2.0 | 1.6 | 13.9 | 103. | 7.9 | 200. | | | |
| 3.0 | 1.6 | 13.9 | 103. | 7.9 | 200. | 10 | 0.57 | 5.0 |
| 4.0 | 1.6 | 13.9 | 103. | 7.9 | 200. | | | |
| 5.0 | 1.6 | 13.9 | 103. | 7.9 | 202. | 10 | 0.47 | 7.2 |
| 6.0 | 1.6 | 13.9 | 103. | 7.9 | 203. | 10 | 0.50 | 7.5 |
| 7.0 | 1.6 | 13.9 | 103. | 7.9 | 204. | 10 | 0.52 | 7.0 |
| 8.0 | 1.6 | 13.9 | 103. | 7.9 | 204. | 10 | 0.53 | 7.7 |
| 9.0 | 1.6 | 13.8 | 102. | 7.9 | 204. | 10 | 0.55 | 6.2 |
| 10.0 | 1.6 | 13.8 | 102. | 7.9 | 205. | 10 | 0.49 | 5.8 |
| 11.0 | 1.6 | 13.8 | 102. | 7.9 | 207. | | | |
| 12.0 | 1.6 | 13.8 | 102. | 7.9 | 207. | 10 | 0.53 | 6.6 |
| 13.0 | 1.6 | 13.8 | 102. | 7.9 | 208. | | | |
| 14.0 | 1.6 | 13.2 | 98. | 7.9 | 212. | 10 | 0.47 | 4.5 |
| 15.0 | 1.6 | 13.2 | 98. | 7.9 | 212. | | | |
| 16.0 | 1.6 | 13.2 | 98. | 7.9 | 216. | 10 | 0.61 | 6.2 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 4.0 | 0.0 | 4.5 |
| 3.0 | 3.2 | 0.1 | 4.5 |
| 5.0 | 2.6 | 0.6 | |
| 6.0 | 2.5 | 0.3 | 4.4 |
| 7.0 | 2.6 | 1.2 | |
| 8.0 | 2.9 | 0.6 | |
| 9.0 | 3.3 | 0.0 | 4.1 |
| 10.0 | 3.1 | 0.2 | |
| 12.0 | 3.0 | 0.1 | 4.6 |
| 14.0 | 2.5 | 0.1 | |
| 16.0 | 2.7 | 0.1 | 3.7 |

continued,

Table 51 , cont.

FRESHWATER LAKE C45A DEC 14 1976 AIR TEMP -10C ICE 0.10M
STATION NEAR OUTLET

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.1 | 0.0 | 13.4 | 95. | 7.3 | 245. | 12 | 0.50 | 8.1 |
| 2.0 | 0.5 | | | 7.2 | 230. | 12 | 0.49 | 9.2 |
| 4.0 | 0.5 | | | 7.2 | 230. | 12 | 0.61 | 9.5 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.1 | 2.8 | 0.5 | 4.7 |
| 2.0 | 2.8 | 0.6 | |
| 4.0 | 2.5 | 0.8 | 3.9 |

continued,

Table 51 , cont.

FRESHWATER LAKE C45A JAN 14 1977 AIR TEMP -13C SECCHI 3.3M
ICE 0.42M,CLEAR

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SATN | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.4 | 0.2 | 16.5 | 117. | 6.7 | 84. | 10 | 0.24 | 9.1 |
| 0.6 | 0.2 | 16.3 | 116. | 6.6 | 85. | | | |
| 0.8 | 0.5 | 14.1 | 101. | 6.5 | 109. | | | |
| 1.0 | 0.6 | 13.2 | 95. | 6.6 | 141. | 10 | 0.30 | 9.4 |
| 2.0 | 1.0 | 14.1 | 102. | 7.0 | 174. | 10 | 0.33 | 7.0 |
| 3.0 | 1.0 | 14.0 | 102. | 7.0 | 178. | 10 | 0.30 | 8.9 |
| 4.0 | 1.1 | 13.7 | 100. | 6.9 | 182. | 10 | 0.33 | 7.5 |
| 5.0 | 1.2 | 13.6 | 99. | 6.8 | 186. | 10 | 0.24 | 6.2 |
| 6.0 | 1.2 | 13.4 | 98. | 6.8 | 189. | | | |
| 7.0 | 1.3 | 13.3 | 98. | 6.8 | 191. | 10 | 0.31 | 6.2 |
| 8.0 | 1.4 | 13.2 | 97. | 6.7 | 193. | | | |
| 9.0 | 1.5 | 13.0 | 96. | 6.7 | 197. | 10 | 0.28 | 6.2 |
| 10.0 | 1.6 | 12.8 | 95. | 6.7 | 199. | | | |
| 11.0 | 1.7 | 12.2 | 91. | 6.6 | 201. | 10 | 0.21 | 6.4 |
| 12.0 | 1.9 | 10.5 | 78. | 6.5 | 205. | 10 | 0.22 | 5.9 |
| 13.0 | 1.9 | 10.4 | 78. | 6.5 | 220. | | | |
| 14.0 | 2.0 | 10.6 | 79. | 6.5 | 258. | 10 | 0.27 | 6.2 |
| 15.0 | 2.2 | 9.7 | 73. | 6.5 | 357. | | | |
| 16.0 | 2.7 | 6.7 | 51. | 6.5 | 560. | 10 | 0.22 | 12.9 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.4 | 1.7 | 0.6 | 5.9 |
| 1.0 | 1.7 | 0.4 | |
| 2.0 | 3.3 | 0.0 | |
| 3.0 | 3.8 | 0.2 | 5.6 |
| 4.0 | 3.6 | 0.2 | |
| 5.0 | 3.1 | 0.2 | |
| 7.0 | 2.0 | 0.4 | 5.3 |
| 9.0 | 1.2 | 0.7 | 5.7 |
| 11.0 | 1.0 | 0.4 | |
| 12.0 | 1.0 | 0.5 | 6.7 |
| 14.0 | 0.9 | 0.6 | |
| 16.0 | 0.9 | 0.6 | 7.8 |

continued,

Table 51, cont.

FRESHWATER LAKE C45A FEB 1 1977 AIR TEMP -3C SECCHI 4.0M
ICE 0.55M

| DEPTH M | TEMP. C | DISSOLVED OXYGEN MG/L | DISSOLVED OXYGEN %SATN | PH | CONDUCTANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBIDITY APHA UNITS | TOTAL PHOSPHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.6 | 0.2 | 16.2 | 115. | 6.7 | 88. | 12 | 0.30 | 8.2 |
| 0.8 | 0.5 | 14.8 | 106. | 6.6 | 109. | | | |
| 1.0 | 0.6 | 14.6 | 105. | 6.5 | 118. | 12 | 0.25 | 9.6 |
| 2.0 | 1.1 | 14.6 | 106. | 7.0 | 198. | 12 | 0.29 | 8.8 |
| 3.0 | 1.2 | 14.4 | 105. | 6.9 | 200. | 12 | 0.27 | 9.9 |
| 4.0 | 1.3 | 13.9 | 102. | 6.9 | 202. | 12 | 0.25 | 6.7 |
| 5.0 | 1.4 | 13.8 | 102. | 6.8 | 202. | | | |
| 6.0 | 1.4 | 13.5 | 99. | 6.8 | 203. | 12 | 0.22 | 6.9 |
| 7.0 | 1.5 | 13.3 | 98. | 6.7 | 204. | | | |
| 8.0 | 1.6 | 13.0 | 96. | 6.7 | 205. | | | |
| 9.0 | 1.7 | 12.8 | 95. | 6.7 | 205. | 12 | 0.16 | 5.3 |
| 10.0 | 1.8 | 12.1 | 90. | 6.6 | 205. | | | |
| 11.0 | 2.0 | 10.4 | 78. | 6.5 | 207. | | | |
| 12.0 | 2.1 | 9.8 | 73. | 6.5 | 210. | 12 | 0.18 | 6.9 |
| 13.0 | 2.1 | 10.2 | 76. | 6.5 | 244. | | | |
| 14.0 | 2.2 | 10.0 | 75. | 6.5 | 285. | 12 | 0.22 | 8.4 |
| 15.0 | 2.5 | 8.9 | 68. | 6.6 | 460. | | | |
| 16.0 | 2.8 | 6.1 | 47. | 6.6 | 680. | 12 | 0.19 | 10.0 |

| DEPTH M | CHLOROPHYLL A MG/M3 | PHAEOPHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.6 | 1.7 | 0.0 | 7.3 |
| 1.0 | 1.5 | 0.0 | |
| 2.0 | 3.0 | 0.0 | |
| 3.0 | 3.8 | 0.0 | 7.1 |
| 4.0 | 4.5 | 0.0 | |
| 6.0 | 4.0 | 0.0 | 8.2 |
| 9.0 | 1.6 | 0.3 | 8.4 |
| 12.0 | 0.9 | 0.4 | 9.1 |
| 14.0 | 0.7 | 0.2 | |
| 16.0 | 0.5 | 0.3 | 11.0 |

continued,

Table 51, cont.

FRESHWATER LAKE C45A MARCH 1 1977 AIR TEMP -1C SECCHI 3.0M ICE 0.78M

| DEPTH M | TEMP. C | DISSOLVED OXYGEN MG/L | DISSOLVED OXYGEN %SAT'N | PH | CONDUCTANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBIDITY APHA UNITS | TOTAL PHOSPHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.8 | 0.3 | 15.7 | 112. | 6.4 | 148. | 8 | 0.18 | 5.8 |
| 1.0 | 0.5 | 14.2 | 102. | 6.4 | | | | |
| 2.0 | 1.5 | 14.2 | 105. | 6.8 | 198. | 8 | 0.18 | 6.5 |
| 3.0 | 1.6 | 13.7 | 102. | 6.7 | 228. | 8 | 0.22 | 5.2 |
| 4.0 | 1.7 | 13.3 | 99. | 6.7 | 247. | 8 | 0.14 | 5.0 |
| 5.0 | 1.7 | 13.2 | 98. | 6.6 | | | | |
| 6.0 | 1.8 | 12.9 | 96. | 6.6 | 251. | 8 | 0.14 | 5.9 |
| 7.0 | 1.9 | 12.6 | 94. | 6.6 | 242. | 8 | 0.11 | 5.2 |
| 8.0 | 2.0 | 12.1 | 90. | 6.5 | | | | |
| 9.0 | 2.2 | 11.1 | 83. | 6.4 | 225. | 8 | 0.13 | 4.7 |
| 10.0 | 2.3 | 9.9 | 74. | 6.4 | | | | |
| 11.0 | 2.4 | 8.6 | 65. | 6.4 | | | | |
| 12.0 | 2.4 | 8.6 | 65. | 6.3 | 250. | 8 | 0.22 | 4.7 |
| 13.0 | 2.4 | 9.9 | 75. | 6.4 | | | | |
| 14.0 | 2.4 | 9.4 | 71. | 6.4 | 325. | 8 | 0.15 | 5.9 |
| 15.0 | 2.7 | 8.1 | 62. | 6.5 | | | | |
| 16.0 | 2.7 | 4.4 | 33. | 6.5 | 530. | 8 | 0.14 | 5.9 |

| DEPTH M | CHLOROPHYLL A MG/M3 | PHAEOPHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.8 | 2.8 | 0.3 | 9.0 |
| 2.0 | 2.2 | 0.2 | |
| 3.0 | 2.2 | 0.6 | 8.6 |
| 4.0 | 2.7 | 0.4 | |
| 6.0 | 2.0 | 0.6 | 7.4 |
| 9.0 | 1.1 | 0.6 | 8.2 |
| 12.0 | 0.6 | 0.4 | 8.8 |
| 16.0 | 0.2 | 0.6 | 9.2 |

Table 52. Limnological measurements in Sugar Brook Lake, No. 2, W19.3a C.B.H. National Park.

SUGAR BROOK LAKE NO.2 W19.3A AUGUST 9 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 22.0 | | | 6.1 | 42. | 5 | 0.22 | 5.7 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.4 | 0.4 | 1.7 |

Table 53. Limnological measurements in MacIntosh Lake, W19.4.9a, C.B.H. National Park.

MACINTOSH LAKE W19.4.9A NOVEMBER 27 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 1.8 | | | 6.0 | 54. | 35 | 0.40 | 7.7 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 3.8 | 0.1 | |

MACINTOSH LAKE W19.4.9A AUGUST 9 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 21.0 | | | 6.8 | 42. | 8 | 0.38 | 9.1 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.2 | 0.6 | 2.8 |

Table 54 . Limnological measurements in Benjie's Bog draining to W22.2, C.B.H. National Park.

BENJIE'S BOG DRAINING TO W22.2 SURFACE SAMPLES

| DATE 1976 | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 01.08 | 20.0 | | | 4.4 | 40. | 90 | 0.93 | 13.2 |
| 11.08 | 18.0 | | | 4.3 | 39. | 100 | 0.40 | 10.9 |
| 10.09 | 12.0 | 9.2 | 93. | 4.3 | 39. | 180 | 0.40 | 7.5 |
| 13.09 | 13.5 | 9.4 | 98. | 4.3 | 42. | 120 | 0.60 | 6.1 |
| 24.09 | 14.5 | 8.8 | 93. | 4.3 | 40. | 180 | 0.63 | 25.4 |
| 13.10 | 8.0 | 10.8 | 99. | 4.2 | 37. | 200 | 0.29 | 5.6 |
| 25.10 | 3.0 | 12.6 | 102. | 4.3 | 50. | 140 | 0.35 | 3.6 |

| | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 01.08 | 0.9 | 2.0 | |
| 10.09 | 0.6 | 1.3 | 1.4 |
| 13.09 | 0.7 | 1.4 | 0.9 |
| 24.09 | 0.9 | 2.7 | 0.7 |
| 13.10 | 0.1 | 2.8 | 1.7 |
| 25.10 | 0.5 | 2.2 | 1.8 |

Table 55 . Limnological measurements in Benjie's Lake W22.2a, C.B.H. National Park.

BENJIE'S LAKE W22.2A SURFACE SAMPLES

| DATE 1976 | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 22.07 | 23.7 | 8.5 | 108. | 7.1 | 58. | 10 | 0.44 | 7.7 |
| 02.08 | 18.0 | | | 6.7 | 56. | 30 | 0.23 | 8.1 |
| 17.08 | 20.0 | 8.7 | 103. | 6.7 | 40. | 80 | 0.42 | 8.8 |
| 05.09 | 16.0 | 9.8 | 108. | 5.9 | 35. | 100 | 0.51 | 12.3 |
| 23.09 | 19.0 | 9.4 | 109. | 6.6 | 36. | 55 | 0.45 | 5.4 |
| 25.10 | 3.5 | 12.4 | 102. | 5.6 | 42. | 50 | 0.32 | 3.2 |

| | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 22.07 | 0.5 | 0.4 | 4.1 |
| 02.08 | 0.5 | 0.6 | |
| 17.08 | 1.0 | 0.8 | 3.5 |
| 05.09 | 0.3 | 0.8 | 4.2 |
| 23.09 | 0.8 | 1.1 | 2.0 |
| 25.10 | 0.6 | 1.2 | 1.6 |

Table 56 . Limnological measurements in Fishing Cove Lake W24a, C.B.H. National Park.

FISHING COVE LAKE W24A SURFACE SAMPLES

| DATE 1976 | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 22.07 | 18.5 | 8.0 | 91. | 6.6 | 47. | 100 | 1.50 | 19.5 |
| 02.08 | 15.0 | | | 6.6 | 53. | 70 | 0.73 | 11.8 |
| 17.08 | 19.4 | 9.6 | 113. | 6.9 | 44. | 50 | 0.43 | 9.8 |
| 05.09 | 12.0 | 9.4 | 95. | 5.7 | 40. | 100 | 0.44 | 11.4 |
| 23.09 | 14.5 | 9.6 | 102. | 6.5 | 33. | 130 | 0.48 | 4.4 |
| 25.10 | 3.5 | 11.8 | 97. | 5.2 | 43. | 65 | 0.40 | 4.7 |

| | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 22.07 | 0.8 | 1.0 | 3.6 |
| 02.08 | 0.5 | 1.9 | |
| 17.08 | 1.0 | 0.0 | 2.9 |
| 05.09 | 0.1 | 0.5 | 2.1 |
| 23.09 | 0.9 | 1.6 | 1.9 |
| 25.10 | 0.1 | 0.2 | 3.2 |

Table 57 . Limnological measurements in Bog Exhibit Pond W24,8.1a, C.B.H. National Park

BOG EXHIBIT POND W24.8.1A SURFACE SAMPLES

| DATE 1976 | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 22.07 | 24.5 | 9.0 | 116. | 7.7 | 159. | 25 | 1.30 | 9.6 |
| 01.08 | 20.0 | | | 7.7 | 126. | 28 | 1.25 | 26.1 |
| 11.08 | 17.0 | | | 7.4 | 31. | 40 | 1.20 | 8.6 |
| 17.08 | 20.0 | 8.4 | 100. | 7.0 | 83. | 60 | 1.40 | 12.1 |
| 04.09 | 17.5 | | | 6.7 | 44. | 90 | 0.42 | 7.0 |
| 10.09 | 11.5 | 8.2 | 83. | 5.4 | 23. | 150 | 0.32 | 8.6 |
| 13.09 | 13.5 | 9.4 | 98. | 6.6 | 45. | 110 | 0.53 | 2.5 |
| 24.09 | 13.5 | 8.4 | 88. | 6.9 | 64. | 90 | 1.00 | 4.3 |
| 13.10 | 9.5 | 11.5 | 109. | 6.8 | 40. | 80 | 0.22 | 3.3 |
| 25.10 | 4.0 | 11.8 | 98. | 6.6 | 52. | 60 | 0.49 | 3.6 |

| | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 22.07 | 0.4 | 0.7 | 15.7 |
| 01.08 | 0.5 | 0.3 | |
| 11.08 | 0.4 | 0.6 | |
| 17.08 | 0.3 | 0.8 | 10.4 |
| 04.09 | 0.2 | 0.6 | |
| 10.09 | 0.5 | 0.7 | 3.2 |
| 13.09 | 0.3 | 0.9 | 5.1 |
| 24.09 | 0.1 | 0.7 | 7.1 |
| 13.10 | 0.1 | 0.2 | 5.7 |
| 25.10 | 0.5 | 2.0 | 5.0 |

Table 58 . Limnological measurements in Bog South Pond W24.8.1c, C.B.H. National Park.

BOG SOUTH POND W24.8.1C SURFACE SAMPLES

| DATE 1976 | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 01.08 | 20.0 | | | 4.3 | 42. | 90 | 0.63 | 13.2 |
| 11.08 | 17.0 | | | 4.3 | 42. | 90 | 0.88 | 8.3 |
| 10.09 | 12.0 | 9.4 | 96. | 4.4 | 31. | 120 | 0.40 | 5.4 |
| 13.09 | 13.2 | 10.0 | 105. | 4.4 | 34. | 110 | 0.52 | 5.0 |
| 24.09 | 14.0 | 9.6 | 101. | 4.4 | 32. | 130 | 0.62 | 5.7 |
| 13.10 | 8.0 | 11.6 | 106. | 4.3 | 31. | 130 | 0.43 | 3.9 |
| 25.10 | 3.0 | 13.4 | 108. | 4.4 | 47. | 90 | 0.72 | 3.6 |

| | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 01.08 | 0.9 | 1.1 | |
| 11.08 | 0.9 | 1.6 | |
| 10.09 | 0.9 | 2.5 | 1.3 |
| 13.09 | 0.8 | 0.9 | 0.7 |
| 24.09 | 0.6 | 1.4 | 0.7 |
| 13.10 | 0.5 | 1.3 | 1.8 |
| 25.10 | 0.8 | 3.3 | 2.0 |

Table 59 . Limnological measurements in French Lake W30.6a, C.B.H. National Park.

FRENCH LAKE W30.6A JUNE 27 1975 AIR TEMP 25C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 20.0 | | | 5.7 | 35 | 25 | 0.52 | 7.4 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 2.2 | 0.9 | |

FRENCH LAKE W30.6A NOV 27 1975 ICE 0.2M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.2 | 1.8 | | | 5.7 | 64. | 45 | 1.80 | 8.3 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.2 | 0.7 | 0.8 | |

continued,

Table 59, cont.

FRENCH LAKE W30.6A FEB 18 1976 AIR TEMP 0C ICE 0.6M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.6 | 0.8 | 14.8 | 112 | 4.5 | 76 | 40 | 0.37 | 7.6 |
| 0.8 | 1.5 | 13.2 | 103 | 4.6 | | | | |
| 1.0 | 1.5 | 6.4 | 49 | 5.3 | 85 | 40 | 0.43 | 11.6 |
| 1.4 | 3.6 | 2.6 | 21 | 5.5 | 92 | 40 | | 7.9 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.6 | 1.6 | 0.0 | 3.0 |
| 1.0 | 1.1 | 0.1 | 5.5 |
| 1.4 | 1.0 | 0.3 | 5.5 |

FRENCH LAKE W30.6A MARCH 23 1976 AIR TEMP -5C ICE 0.6M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.6 | 0.4 | 13.2 | 100 | 5.3 | 37 | 10 | 0.26 | 6.0 |
| 1.0 | 2.5 | 11.2 | 89 | | | | | |
| 1.5 | 4.2 | 5.6 | 46 | 5.6 | 57 | 10 | 0.31 | 5.2 |
| 1.7 | 4.5 | 4.7 | 39 | | | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.6 | 0.2 | 0.1 | 1.2 |
| 1.5 | 0.8 | 0.5 | 4.4 |

continued,

Table 59 , cont.

FRENCH LAKE W30.6A MAY 5 1976 AIR TEMP 10C AT TRAIL

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.2 | 10.2 | 11.0 | 112 | 5.2 | 44 | 40 | 0.94 | 23.4 |
| 0.4 | 10.2 | 10.9 | | 5.2 | | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.2 | 0.8 | 0.5 | 0.6 |

FRENCH LAKE W30.6A MAY 5 1976 AIR TEMP 10C AT INLET

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 10.2 | | | 5.8 | 43 | 40 | 0.90 | 11.7 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.9 | 0.4 | 0.6 |

continued,

Table 59 , cont.

FRENCH LAKE W30.6A MAY 27 1976 AIR TEMP 12C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.1 | 13.8 | 10.3 | 108 | 5.3 | 49 | 35 | 0.75 | 13.3 |
| 1.0 | 13.5 | 10.2 | 107 | 5.3 | 49 | 35 | 1.5 | 21.5 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.1 | 2.2 | 0.6 | 1.0 |
| 1.0 | 4.5 | 3.3 | 0.8 |

FRENCH LAKE W30.6A JUNE 24 1976 AIR TEMP 21C SECCHI BOTTOM

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 22.6 | 8.2 | 102. | 5.4 | 50. | 20 | 0.36 | 12.1 |
| 1.0 | 22.5 | 8.2 | 102. | 5.4 | 49. | 25 | 0.42 | 18.4 |
| 1.4 | 22.5 | 8.0 | 99. | 5.3 | 49. | 25 | 0.44 | 10.6 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.5 | 0.5 | 1.3 |
| 1.0 | 0.4 | 0.4 | 1.5 |
| 1.4 | 0.4 | 0.4 | 1.5 |

continued,

Table 59 , cont.

FRENCH LAKE W30.6A JULY 9 1976 AIR TEMP 22C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 21.7 | 8.5 | 105. | 5.6 | 58. | 20 | 0.22 | 17.5 |
| 1.0 | 22.0 | 8.5 | 105. | 5.6 | 58. | 20 | 0.22 | 13.4 |
| 1.4 | 21.8 | 8.4 | 103. | 5.6 | 58. | 18 | 0.35 | 9.4 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.8 | 0.7 | 1.2 |
| 1.0 | 0.6 | 0.5 | 1.0 |
| 1.4 | 0.7 | 0.8 | 1.0 |

FRENCH LAKE W30.6A JULY 13 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 16.0 | | | | | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.8 | 2.0 | 1.2 |

continued,

Table 59, cont.

FRENCH LAKE W30.6A JULY 14 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 21.0 | 8.7 | 100. | | | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | | | 1.0 |

FRENCH LAKE W30.6A JULY 23 1976 AIR TEMP 16C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 19.0 | 9.0 | 104. | 5.6 | 46. | 15 | 0.30 | 13.7 |
| 1.0 | 19.0 | 9.0 | 104. | 5.6 | 46. | | | |
| 1.5 | 19.0 | 9.0 | 104. | 5.6 | 46. | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.4 | 0.5 | 2.5 |

continued,

Table 59, cont.

FRENCH LAKE W30.6A AUGUST 1 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 19.0 | | | 5.9 | 54. | 18 | 0.19 | 9.5 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.5 | 0.5 | |

FRENCH LAKE W30.6A AUGUST 11 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 18.0 | | | 5.9 | 55. | 30 | 0.53 | 7.0 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.4 | 0.6 | |

continued,

Table 59 , cont.

FRENCH LAKE W30.6A AUGUST 17 1976 AIR TEMP 17C SECCHI BOTTOM

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 18.4 | 9.0 | 104. | 5.5 | 54. | 20 | 0.32 | 5.7 |
| 1.0 | 18.4 | 9.0 | 104. | 5.4 | 54. | 20 | 0.28 | 4.8 |
| 1.4 | 18.4 | 9.0 | 103. | 5.4 | 54. | 20 | 0.36 | 6.2 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.5 | 0.9 | 0.7 |
| 1.0 | 0.9 | 1.1 | |
| 1.4 | 0.5 | 0.9 | 1.0 |

FRENCH LAKE W30.6A SEPTEMBER 4 1976 AIR TEMP 18C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 14.3 | 10.0 | 107. | 5.1 | 41. | 30 | 0.28 | 8.3 |
| 1.0 | 14.3 | 10.0 | 106. | 5.2 | 42. | 30 | | |
| 1.8 | 12.5 | 9.8 | 99. | 5.1 | 45. | 30 | 0.31 | 6.1 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.7 | 0.6 | |
| 1.8 | 0.4 | 0.5 | 1.0 |

continued,

Table 59 , cont.

FRENCH LAKE W30.6A SEPTEMBER 8 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 14.0 | | | | | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.2 | 1.2 | 0.8 |

FRENCH LAKE W30.6A SEPTEMBER 24 1976 AIR TEMP 17C SECCHI BOTTOM

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 14.2 | 9.6 | 101. | 5.2 | 46. | 65 | 0.68 | 8.0 |
| 1.0 | 14.2 | 9.5 | 101. | 5.2 | 46. | 65 | 0.70 | |
| 1.5 | 14.2 | 9.4 | 100. | 5.2 | 46. | | | 7.0 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.5 | 0.8 | 0.9 |
| 1.5 | 1.0 | 1.2 | 1.2 |

continued,

Table 59 , cont.

FRENCH LAKE W30.6A OCTOBER 27 1976 AIR TEMP -2C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 2.5 | 12.0 | 96. | 5.0 | 57. | 60 | 0.65 | 6.8 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.6 | 2.4 | 2.4 |

FRENCH LAKE W30.6A NOVEMBER 25 1976 AIR TEMP -1C ICE 0.30M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.3 | 2.0 | 9.8 | 77. | 5.3 | 55. | 50 | 0.75 | 5.9 |
| 1.5 | | | | 5.5 | 57. | 50 | 0.65 | 9.4 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.3 | 0.4 | 0.2 | 1.7 |
| 1.5 | 0.4 | 0.4 | |

continued,

Table 59 , cont.

FRENCH LAKE W30.6A DECEMBER 15 1976 AIR TEMP OC ICE 0.30M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.3 | 1.8 | 9.8 | 77. | 4.8 | 75. | 50 | 0.45 | 6.5 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.3 | 0.2 | 0.2 | 3.8 |

FRENCH LAKE W30.6A JANUARY 12 1977 AIR TEMP -20C ICE 0.50M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.5 | 0.5 | 6.6 | 52. | 5.7 | 83. | 50 | 0.50 | 14.1 |
| 0.8 | 1.5 | 3.5 | 27. | | 84. | | | |
| 1.0 | 2.0 | 2.4 | 19. | | 84. | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.5 | 1.2 | 1.8 | 4.9 |

Continued,

Table 59 , cont.

FRENCH LAKE W30.6A FEB 2 1977 AIR TEMP -3C ICE 0.67M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.7 | 0.4 | 9.9 | 75. | 4.9 | 107. | 65 | 0.51 | 9.9 |
| 0.8 | 0.6 | 9.3 | 70. | 5.0 | 109. | | | |
| 1.0 | 1.4 | 4.6 | 35. | 5.3 | 113. | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.7 | 0.7 | 0.9 | 8.3 |

FRENCH LAKE W30.6A MARCH 2 1977 AIR TEMP -7C ICE 0.85M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.9 | 0.2 | 9.3 | 70. | 5.6 | 120. | 45 | 0.43 | 8.2 |
| 1.0 | 0.7 | 9.4 | 71. | 5.7 | 113. | 45 | 0.40 | 6.6 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.9 | 0.1 | 0.1 | 8.1 |
| 1.0 | 0.1 | 0.1 | |

Table 60 . Limnological measurements in Corney Lake W30b, C.B.H. National Park.

CORNEY LAKE W30B NOVEMBER 27 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 2.0 | | | 5.1 | 59. | 50 | 0.50 | 11.5 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.4 | 0.4 | |

CORNEY LAKE W30B AUGUST 10 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 22.0 | | | 6.5 | 38. | 90 | 1.40 | 22.1 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 2.1 | 2.6 | 2.4 |

CORNEY LAKE W30B JANUARY 31 1977 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.5 | | | 5.5 | 50. | 100 | 0.85 | 9.6 |

Table 61 . Limnological measurements in Little Presqu'ile Lake W32a, C.B.H. National Park.

LITTLE PRESQU'ILE LAKE W32A JUNE 27 1975 AIR TEMP 25C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 25.0 | | | 7.9 | 280 | 5 | 1.2 | 10.7 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 3.6 | 1.4 | |

LITTLE PRESQU'ILE LAKE W32A NOV 27 1975 ICE 0.1M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.1 | 4.0 | | | 7.3 | 370. | 2 | 0.40 | 19.8 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.1 | 4.9 | 0.5 | |

continued,

Table 61 , cont.

LITTLE PRESQU'ILE LAKE W32A JAN 15 1976 ICE 0.7M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.7 | 0.9 | 14.6 | 106 | 8.0 | 300 | 0 | 0.35 | 8.6 |
| 1.0 | 1.3 | 14.4 | 106 | 7.8 | | | | |
| 2.0 | 1.5 | 14.2 | 105 | 7.7 | | | | |
| 3.0 | 2.1 | 13.4 | 100 | 7.5 | 302 | 0 | 0.48 | 8.4 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.7 | 3.0 | 1.6 | 14.6 |
| 3.0 | 6.3 | 0.0 | 14.2 |

LITTLE PRESQU'ILE LAKE W32A FEB 18 1976 ICE 0.2M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.2 | 0.9 | 16.4 | 119 | 7.7 | 320 | 5 | 2.8 | 16.3 |
| 0.5 | 1.2 | 15.9 | 117 | 7.7 | | | | |
| 1.0 | 1.4 | 15.8 | 117 | 7.7 | 332 | 5 | 2.3 | 15.2 |
| 2.0 | 1.4 | 15.8 | 117 | 7.7 | | | | |
| 3.0 | 1.4 | 15.8 | 117 | 7.7 | 321 | 5 | 1.9 | 15.0 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.2 | 3.9 | 0.0 | 12.4 |
| 1.0 | 4.4 | 0.0 | |
| 3.0 | 4.7 | 0.0 | 12.4 |

continued,

Table 61 ,cont.

LITTLE PRESQU'ILE LAKE W32A MARCH 23 1976 AIR TEMP -3C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 3.0 | | | 7.7 | 258 | 5 | 0.71 | 9.3 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 3.9 | 0.9 | |

LITTLE PRESQU'ILE LAKE W32A MAY 5 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.4 | 10.5 | 11.6 | 108 | 7.8 | 274 | 5 | 2.0 | 14.4 |
| 1.2 | 10.5 | 11.6 | 108 | 7.8 | | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.4 | 2.4 | 0.13 | 10.7 |

Table 62. Limnological measurements in Presqu'ile Lake W32b, C.B.H. National Park.

PRESQU'ILE LAKE W32B JUNE 27 1975 AIR TEMP 25C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 21.0 | | | 7.9 | 280 | 8 | | 12.9 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 3.6 | 2.0 | |

PRESQU'ILE LAKE W32B NOV 27 1975 ICE 0.1M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.1 | 3.0 | | | 7.2 | 326. | 5 | 0.80 | 16.7 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.1 | 6.1 | 0.0 | |

continued,

Table 62, cont.

PRESQU'ILE LAKE W32B JAN 15 1976 ICE 0.7M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.7 | 0.5 | 14.6 | 105 | 7.6 | 310 | 0 | 0.34 | 15.2 |
| 1.0 | 1.5 | 14.6 | 108 | 7.6 | | | | |
| 2.0 | 2.0 | 13.2 | 99 | 7.6 | | | | |
| 3.0 | 2.8 | 10.3 | 78 | 7.4 | 310 | 0 | 0.60 | 16.7 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.7 | 2.0 | 0.0 | 17.7 |
| 3.0 | 11.6 | 0.0 | 17.8 |

PRESQU'ILE LAKE W32B FEB 18 1976 ICE 0.2M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.2 | 0.7 | 16.6 | 120 | 7.8 | 330 | 5 | 1.8 | 14.9 |
| 0.5 | 1.6 | 16.3 | 121 | 7.7 | | | | |
| 1.0 | 1.8 | 16.2 | 121 | 7.8 | 329 | 5 | 2.3 | 16.2 |
| 2.0 | 1.8 | 16.1 | 120 | 7.8 | | | | |
| 2.7 | 2.0 | 16.0 | 120 | 7.8 | 319 | 5 | 2.7 | 17.3 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.2 | 1.0 | 0.0 | 13.3 |
| 1.0 | 1.5 | 0.0 | |
| 2.7 | 4.1 | 0.0 | 13.9 |

continued,

Table 62, cont.

PRESQU'ILE LAKE W32B MARCH 23 1976 AIR TEMP -3C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 3.5 | | | 7.7 | 258 | 5 | 0.79 | 10.7 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 3.9 | 0.4 | |

PRESQU'ILE LAKE W32B MAY 5 1976 AIR TEMP 11C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.5 | 10.5 | 11.6 | 108 | 7.9 | 260 | 2.5 | 0.85 | 13.3 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.5 | 2.0 | 0.5 | 10.9 |

continued,

Table 62, cont.

PRESQU'ILE LAKE W32B MAY 27 1976 AIR TEMP 12C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.1 | 13.5 | 10.7 | 106 | 8.0 | 280 | 7.5 | 0.64 | 10.9 |
| 1.0 | 13.5 | 10.6 | 105 | 8.0 | 279 | 7.5 | 0.50 | 15.0 |
| 2.0 | 13.5 | 10.6 | 105 | 8.0 | | | | |
| 3.0 | 13.3 | 10.8 | 107 | 8.0 | 279 | 5.0 | 0.52 | 10.5 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.1 | 2.4 | 0.0 | 12.4 |
| 1.0 | 2.4 | 0.0 | |
| 2.0 | | | |
| 3.0 | 2.4 | 0.0 | 12.6 |

PRESQU'ILE LAKE W32B JUNE 24 1976 AIR TEMP 20C SECCHI 2.3M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 22.0 | 9.2 | 108. | 8.0 | 250. | 8 | 1.40 | 13.4 |
| 1.0 | 21.7 | 9.2 | 107. | 8.0 | 250. | 8 | 1.30 | 15.8 |
| 2.0 | 21.5 | 9.2 | 107. | 8.0 | 252. | 8 | 1.30 | 18.2 |
| 2.7 | 21.5 | 6.6 | 76. | 8.0 | 252. | 8 | 1.40 | 15.7 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 2.9 | 0.9 | 21.8 |
| 1.0 | 3.5 | 0.8 | 21.9 |
| 2.0 | 3.8 | 1.0 | 22.0 |
| 2.7 | 3.8 | 0.7 | 22.5 |

continued,

Table 62 , cont.

PRESQU'ILE LAKE W32B JULY 9 1976 AIR TEMP 23C SECCHI 1.9M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 21.5 | 9.2 | 107. | 8.4 | 265. | 8 | 1.70 | 19.1 |
| 1.0 | 21.5 | 9.2 | 107. | 8.4 | 267. | 8 | 1.50 | 21.2 |
| 2.0 | 21.5 | 9.3 | 108. | 8.4 | 270. | 8 | 2.00 | 20.3 |
| 3.0 | 21.2 | 9.2 | 107. | 8.4 | 275. | 8 | 1.70 | 19.1 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 4.3 | 1.3 | 20.6 |
| 1.0 | 3.8 | 1.8 | 21.1 |
| 2.0 | 3.8 | 1.8 | 21.3 |
| 3.0 | 3.9 | 1.5 | 21.3 |

PRESQU'ILE LAKE W32B JULY 14 1976 AIR TEMP 26C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 20.5 | 9.6 | 110. | 8.0 | 300. | 10 | 1.80 | 17.9 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 5.5 | 1.2 | 13.5 |

continued,

Table 62 , cont.

PRESQU'ILE LAKE W328 JULY 23 1976 AIR TEMP 19C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 20.0 | 9.6 | 108. | 8.8 | 255. | 15 | 2.20 | 19.3 |
| 1.0 | 20.0 | 9.6 | 107. | 8.8 | 270. | 15 | 2.30 | 16.4 |
| 2.0 | 20.0 | 9.4 | 106. | 8.7 | 273. | 15 | 2.40 | 17.6 |
| 2.6 | 19.5 | 9.4 | 104. | 8.7 | 275. | | | |
| 2.7 | 19.5 | 8.7 | 98. | 8.4 | 285. | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 5.1 | 5.4 | 14.0 |
| 1.0 | 5.4 | 5.3 | 13.3 |
| 2.0 | 2.7 | 1.6 | 13.0 |

PRESQU'ILE LAKE W328 AUGUST 1 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 20.0 | | | 8.2 | 282. | 18 | 3.40 | 29.3 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.9 | 3.7 | |

continued,

Table 62 , cont.

PRESQU'ILE LAKE W32B AUGUST 11 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 21.0 | | | 7.6 | 267. | 10 | 2.00 | 14.2 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 7.0 | 4.1 | |

PRESQU'ILE LAKE W32B AUGUST 17 1976 AIR TEMP 24C SECCHI 1.5M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 20.2 | 9.4 | 106. | 8.0 | 290. | 18 | 2.70 | 17.9 |
| 1.0 | 20.2 | 9.4 | 106. | 8.0 | 290. | 18 | 2.60 | 16.7 |
| 2.0 | 20.2 | 9.4 | 106. | 8.0 | 290. | 20 | 2.80 | 14.7 |
| 2.3 | 20.2 | 9.2 | 105. | 8.0 | 290 | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 5.2 | 6.5 | 12.9 |
| 1.0 | 2.7 | 8.4 | |
| 2.0 | 4.1 | 7.6 | 12.8 |

continued,

Table 62 , cont.

PRESQU'ILE LAKE W32B SEPTEMBER 5 1976 AIR TEMP 14C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 15.7 | 10.4 | 108. | 8.5 | 292. | 15 | 1.50 | 11.4 |
| 1.0 | 15.7 | 10.4 | 108. | 8.5 | 295. | 15 | 1.50 | 11.8 |
| 2.0 | 15.6 | 10.4 | 108. | 8.5 | 295. | 15 | 1.70 | 12.5 |
| 2.6 | 15.5 | 10.4 | 108. | 8.5 | 300. | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 3.7 | 1.9 | 12.3 |
| 1.0 | 2.1 | 3.7 | |
| 2.0 | 1.4 | 2.2 | 11.0 |

PRESQU'ILE LAKE W32B SEPTEMBER 5 1976 AIR TEMP 14C STATION B

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | | | 15 | 1.30 | 12.0 |
| 2.0 | | | | | | 15 | 1.60 | 13.7 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.1 | 2.0 | |
| 2.0 | 1.4 | 1.6 | |

continued,

Table 62 , cont,

PRESQU'ILE LAKE W32B SEPTEMBER 8 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 15.0 | | | | | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 3.5 | 2.7 | 10.3 |

PRESQU'ILE LAKE W32B SEPTEMBER 13 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 16.0 | | | 7.8 | 240. | 8 | 1.10 | 11.5 |

PRESQU'ILE LAKE W32B SEPTEMBER 24 1976 AIR TEMP 17C SECCHI 1.4M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 16.3 | 9.6 | 101. | 7.9 | 251. | 8 | 1.20 | 11.4 |
| 1.0 | 16.3 | 9.5 | 100. | 7.9 | 272. | 8 | 1.00 | 10.8 |
| 2.0 | 16.3 | 9.6 | 101. | 7.9 | 272. | 8 | 0.75 | 10.2 |
| 2.7 | 16.2 | 9.4 | 100. | 7.8 | 272. | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 3.2 | 2.1 | 12.3 |
| 1.0 | 2.5 | 3.2 | |
| 2.0 | 1.8 | 3.6 | 12.5 |

continued,

Table 62 , cont.

PRESQU'ILE LAKE W32B OCTOBER 13 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 10.0 | | | 7.5 | 222. | 5 | 0.70 | 8.8 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 2.0 | 0.8 | 13.0 |

PRESQU'ILE LAKE W32B OCTOBER 27 1976 AIR TEMP 2C

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 6.0 | 12.4 | 103. | 7.4 | 280. | 5 | 0.60 | 7.9 |
| 1.0 | 6.0 | 12.4 | 103. | | | | | |
| 2.0 | 6.0 | 12.4 | 103. | | | | | |
| 3.0 | 5.8 | 12.2 | 101. | | | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 2.2 | 6.8 | 13.4 |

continued,

PRESQU'ILE LAKE W32B NOVEMBER 25 1976 AIR TEMP 2C

| DEPTH M | TEMP. C | DISSOLVED OXYGEN MG/L | DISSOLVED OXYGEN %SAT'N | PH | CONDUCTANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBIDITY APHA UNITS | TOTAL PHOSPHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 1.0 | 15.4 | 112. | 7.9 | 252. | 8 | 1.60 | 8.9 |
| 1.0 | 1.0 | 15.5 | 112. | 7.9 | 255. | 8 | 1.30 | 11.2 |
| 2.0 | 1.0 | 15.4 | 112. | 7.9 | 255. | 8 | 1.30 | 8.8 |
| 3.0 | 1.0 | 15.4 | 112. | 7.9 | 255. | 8 | 1.40 | 8.0 |
| 4.0 | 1.0 | 15.4 | 112. | 7.9 | 255. | | | 8.8 |

| DEPTH M | CHLOROPHYLL A MG/M3 | PHAEOPHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 0.4 | 0.0 | 12.4 |
| 1.0 | 0.4 | 0.0 | |
| 2.0 | 0.4 | 0.0 | 13.2 |
| 3.0 | 0.5 | 0.0 | |
| 4.0 | | | 12.6 |

PRESQU'ILE LAKE W32B DECEMBER 15 1976 AIR TEMP 3C ICE 0.06M

| DEPTH M | TEMP. C | DISSOLVED OXYGEN MG/L | DISSOLVED OXYGEN %SAT'N | PH | CONDUCTANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBIDITY APHA UNITS | TOTAL PHOSPHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.5 | 14.9 | 108. | 7.9 | 330. | 8 | 1.00 | 11.4 |

| DEPTH M | CHLOROPHYLL A MG/M3 | PHAEOPHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.2 | 0.3 | 13.9 |

continued,

Table 62 , cont.

PRESQU'ILE LAKE W32B JAN 12 1977 AIR TEMP -16C SECCHI 4.2M (BTM) ICE 0.28M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.3 | 0.1 | 13.0 | 93. | 7.6 | 190. | 2 | 0.25 | 13.9 |
| 0.6 | 0.8 | 13.6 | 99. | | 226. | | | |
| 0.8 | 1.7 | 12.9 | 96. | | 236. | | | |
| 1.0 | 2.2 | 13.0 | 98. | 7.6 | 250. | 2 | 0.30 | 13.6 |
| 1.5 | 2.6 | 13.0 | 99. | | 265. | | | |
| 2.0 | 2.8 | 12.4 | 95. | 7.7 | 270. | 2 | 0.48 | 15.1 |
| 3.0 | 3.2 | 11.1 | 86. | 7.7 | 290. | 2 | 0.46 | 16.7 |
| 3.6 | 3.8 | 6.9 | 54. | 7.7 | 370. | 2 | 0.44 | 13.5 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.3 | 0.5 | 0.2 | 14.1 |
| 1.0 | 0.7 | 0.2 | |
| 2.0 | 1.9 | 0.4 | 14.2 |
| 3.0 | 4.3 | 0.2 | |
| 3.6 | 5.5 | 0.0 | 16.1 |

continued,

Table 62, cont.

PRESQU'ILE LAKE W32B FEB 2 1977 AIR TEMP -3C SECCHI 3.7M (BTM) ICE 0.43M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.5 | 0.6 | 12.4 | 90. | 7.2 | 200. | 8 | 0.47 | 11.7 |
| 0.7 | 1.5 | 12.0 | 88. | 7.2 | 215. | | | |
| 0.8 | 2.3 | 13.0 | 98. | 7.3 | 240. | | | |
| 1.0 | 2.7 | 13.2 | 101. | 7.4 | 254. | 8 | 0.42 | 10.7 |
| 2.0 | 3.4 | 15.0 | 116. | 7.5 | 275. | 8 | 0.42 | 10.9 |
| 3.0 | 3.8 | 12.2 | 96. | 7.4 | 290. | 8 | 0.49 | 10.2 |
| 3.5 | 4.2 | 10.0 | 79. | 7.2 | 330. | 8 | 0.58 | 9.0 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.5 | 5.0 | 0.3 | 16.8 |
| 1.0 | 5.3 | 0.1 | |
| 2.0 | 5.9 | 0.4 | 16.7 |
| 3.0 | 6.6 | 0.3 | |
| 3.5 | 7.6 | 0.6 | 19.1 |

PRESQU'ILE LAKE W32B MARCH 2 1977 AIR TEMP -4C SECCHI 3.5M (BTM) ICE 0.52M

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.6 | 1.1 | 13.6 | 99. | 7.4 | 260. | | | |
| 0.8 | 3.7 | 13.9 | 109. | 7.4 | 277. | | | |
| 1.0 | 4.4 | 14.0 | 111. | 7.4 | 283. | 8 | 0.39 | 8.6 |
| 2.0 | 4.9 | 13.2 | 106. | 7.3 | 300. | 8 | 0.39 | 8.0 |
| 2.5 | 5.0 | 12.4 | 100. | 7.1 | | | | |
| 3.0 | 5.0 | 9.6 | 77. | 7.0 | 323. | 8 | 0.41 | 9.0 |
| 3.3 | 5.0 | 8.8 | 71. | 7.0 | 327. | | | |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 1.0 | 3.4 | 0.5 | 18.4 |
| 2.0 | 4.6 | 0.6 | 18.2 |
| 3.0 | 5.0 | 0.5 | 17.6 |

Table 63 . Limnological measurements in Lac des Plees Ferrees No. 3, W34.3.3c, C.B.H. National Park.

LAC DES PLEES FERREES NO.3 W34.3.3C AUGUST 10 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 21.0 | | | 6.1 | 35. | 70 | 0.90 | 7.1 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 3.2 | 1.8 | 2.1 |

Table 64 . Limnological measurements in Cranberry Lake W34.32.1a, C.B.H. National Park.

CRANBERRY LAKE W34.32.1A NOVEMBER 26 1975 UNDER ICE

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 1.8 | | | 4.8 | 45. | 55 | 2.30 | 10.8 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 2.2 | 1.8 | |

CRANBERRY LAKE W34.32.1A AUGUST 9 1976

| DEPTH M | TEMP. C | DIS-SOLVED OXYGEN MG/L | DIS-SOLVED OXYGEN %SAT'N | PH | CONDUC-TANCE UMHO/CM AT 25C | COLOR HAZEN UNITS | TURBI-DITY APHA UNITS | TOTAL PHOS-PHORUS MG/M3 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 21.0 | | | 5.1 | 40. | 60 | 1.80 | 7.9 |

| DEPTH M | CHLORO-PHYLL A MG/M3 | PHAEO-PHYTINS MG/M3 | DISSOLVED INORGANIC CARBON MG/L |
|---|---|---|---|
| 0.0 | 1.4 | 1.5 | 1.3 |

Table 65. Water temperature, pH, color, specific conductance, turbidity, total phosphorus, chlorophyll a and phaeophytin measurements in 47 lakes of Cape Breton Highlands National Park. Except for those samples taken in October, 1976, all samples were collected during aerial surveys in November, 1975, and August, 1976.

| Drainage Reference | Location | Date | Temp. °C | pH | Color Hazen Units | Spec. Cond. µmho/cm at 25°C | Turbidity APHA units | Total Phos $mg\ P/m^3$ | Chloro. a $mg/m^3$ | Phaeo. $mg/m^3$ | Depth surface=o under ice =u |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C22.13.4b | Bear No. 1 | 26/11/75 | 1.5 | 5.6 | 40 | 54. | 1.0 | 6.7 | 1.2 | 0.4 | u |
| | | 9/8/76 | --- | 5.7 | 30 | 46. | 0.8 | 4.7 | 0.8 | 0.5 | o |
| C22.13d | Deer | 26/11/75 | 1.0 | 5.7 | 40 | 54. | 0.8 | 10.0 | 2.6 | 0.3 | u |
| | | 9/8/76 | --- | 5.9 | 35 | 41. | 0.9 | 7.9 | 0.9 | 0.4 | o |
| C23.1.3e | Chain No. 4 | 27/11/75 | 1.5 | 5.8 | 18 | 35. | 0.4 | 5.8 | 0.7 | 0.2 | u |
| | | 9/8/76 | 19.0 | 6.0 | 10 | 35. | 0.5 | 5.3 | 1.8 | 0.7 | o |
| C23.1d5a | John Dee | 25/11/75 | 1.0 | 5.3 | 70 | 40. | 0.3 | 13.0 | 1.6 | 0.3 | u |
| | | 9/8/76 | --- | 4.9 | 70 | 47. | 0.2 | 11.0 | 1.0 | 1.1 | o |
| C23.1f8a | Roundhill No. 1 | 26/11/75 | 1.5 | 5.8 | 35 | 44. | 0.7 | 11.0 | 1.0 | 0.2 | u |
| | | 9/8/76 | --- | 5.8 | 30 | 40. | 0.6 | 6.2 | 0.4 | 0.2 | o |
| C23.1g | Gwinn | 26/11/75 | 1.8 | 4.9 | 75 | 50. | 0.5 | 18.0 | 0.4 | 0.4 | u |
| | | 9/8/76 | --- | 5.1 | 80 | 38. | 0.5 | 7.6 | 0.7 | 0.9 | o |
| C23.9d | Twin No. 1 | 26/11/75 | 1.0 | 5.3 | 50 | 49. | 0.7 | 5.5 | 0.3 | 0.3 | u |
| | | 9/8/76 | 19.0 | 5.5 | 50 | 40. | 0.3 | 10.0 | 1.1 | 0.7 | o |
| C23c | Baldwin | 26/11/75 | 1.0 | 5.1 | 60 | 49. | 0.5 | 5.8 | 0.3 | 0.3 | u |
| | | 9/8/76 | --- | 5.6 | 50 | 41. | 0.3 | 18.0 | 1.3 | 1.4 | o |
| C23d | Twin No. 2 | 26/11/75 | 1.5 | 5.3 | 35 | 40. | 0.6 | 4.2 | 2.9 | 0.1 | u |
| | | 9/8/76 | --- | 5.4 | 50 | 37. | 0.3 | 3.6 | 1.5 | 0.3 | o |
| C24a | Burton | 25/11/75 | 1.5 | 5.2 | 60 | 40. | 0.5 | 7.9 | 0.3 | 0.3 | u |
| | | 9/8/76 | --- | 5.2 | 50 | 37. | 0.5 | 6.6 | 0.1 | 1.2 | o |
| C24g | Glasgow | 25/11/75 | 1.8 | 5.0 | 50 | 32. | 0.6 | 5.2 | 1.5 | 0.2 | u |
| | | 9/8/76 | --- | 5.1 | 40 | 26. | 0.3 | 9.5 | 0.4 | 0.6 | o |

Continued

Table 65. Continued.

| Drainage Reference | Location | Date | Temp. °C | pH | Color Hazen Units | Spec. Cond. µmho/cm at 25°C | Turbidity APHA units | Total phos. mg P/m$^3$ | Chloro. a mg/m$^3$ | Phaeo. mg/m$^3$ | Depth surface=o under ice=u |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C25.2.1a | Paquette | 25/11/75 | 1.0 | 6.5 | 40 | 60. | 0.5 | 11.0 | 1.6 | 0.2 | u |
| | | 9/8/76 | --- | 7.3 | 35 | 62. | 0.6 | 9.5 | 0.9 | 0.6 | o |
| C33.3b | Mica Hill | 25/11/75 | 2.0 | 4.8 | 70 | 54. | 0.5 | 5.9 | 0.1 | 0.2 | u |
| | | 8/10/76 | 14.5 | 5.5 | 90 | 34. | 0.6 | 7.7 | 0.6 | 2.4 | o |
| C33b | Round | 27/11/75 | 1.5 | 4.8 | 70 | 50. | 0.7 | 13.0 | 0.4 | 0.9 | u |
| | | 9/8/76 | 19.0 | 5.2 | 70 | 38. | 0.4 | 13.0 | 0.5 | 1.0 | o |
| C33h | Five Island No. 1 | 27/11/75 | 1.5 | 5.0 | 40 | 40. | 0.6 | 9.7 | 0.3 | 0.3 | u |
| | | 9/8/76 | --- | 4.9 | 50 | 38. | 0.4 | 11.0 | 1.0 | 0.4 | o |
| C34a | Jigging Cove | 25/11/75 | 2.5 | 5.2 | 75 | 97. | 0.6 | 7.1 | 0.3 | 0.5 | o |
| | | 9/8/76 | 24.0 | 4.9 | 90 | 87. | 0.1 | 9.1 | 0.5 | 0.7 | o |
| | | 27/10/76 | 6.0 | 4.9 | 200 | 113. | 0.4 | 12.0 | 0.6 | 2.2 | o |
| C36.1.2a | Broad Cove Mountain | 25/11/75 | 2.5 | 5.9 | 10 | 38. | 0.3 | 3.0 | 0.2 | 0.1 | u |
| | | 9/8/76 | 22.0 | 6.3 | 5 | 38. | 0.2 | 13.0 | 0.9 | 0.3 | o |
| C36.1.3b | Brown's | 25/11/75 | 1.8 | 4.7 | 110 | 64. | 0.6 | 7.0 | 0.4 | 0.4 | u |
| | | 9/8/76 | 21.0 | 4.8 | 100 | 59. | 0.8 | 7.6 | 0.3 | 0.5 | o |
| C36.1.5a | Rudderham | 25/11/75 | 2.2 | 4.8 | 60 | 40. | 0.8 | 5.8 | 2.1 | 0.2 | u |
| | | 9/8/76 | --- | 5.2 | 50 | 35. | 0.4 | 7.1 | 0.5 | 0.6 | o |
| C36.1b | Branch Pond | 25/11/75 | 2.0 | 4.7 | 90 | 54. | 0.5 | 6.1 | 0.2 | 0.2 | u |
| | | 9/8/76 | 20.0 | 5.2 | 60 | 31. | 0.2 | 6.4 | 0.5 | 1.4 | o |
| C36.13a | Sunday | 26/11/75 | 1.8 | 4.9 | 100 | 59. | 1.2 | 8.9 | 0.4 | 0.8 | u |
| | | 9/8/76 | 19.5 | 6.2 | 90 | 35. | 0.7 | 23.0 | 1.3 | 1.6 | o |
| C38a | Warren | 25/11/75 | 5.5 | 5.8 | 60 | 34. | 0.5 | 4.9 | 0.2 | 0.2 | o |
| | | 9/8/76 | 23.0 | 6.3 | 40 | 31. | 0.2 | 5.3 | 1.2 | 3.0 | o |
| C38a3a | Cradle | 25/11/75 | 2.8 | 5.8 | 20 | 32. | 0.4 | 5.2 | 0.4 | 0.1 | o |
| | | 9/8/76 | 21.0 | 5.9 | 25 | 32. | 0.4 | 3.1 | 0.4 | 0.3 | o |

Continued

Table 65. Continued.

| Drainage Reference | Location | Date | Temp. °C | pH | Color Hazen Units | Spec.Cond. µmho/cm at 25°C | Turbidity APHA units | Total phos. $mg\ P/m^3$ | Chloro. a $mg/m^3$ | Phaeg. $mg/m^3$ | Depth surface=o under ice=u |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C38.4a | Spud | 26/11/75 | 1.5 | 4.7 | 100 | 54. | 0.6 | 13.0 | 0.6 | 0.3 | u |
| | | 9/8/76 | 22.0 | 4.9 | 100 | 51. | 0.4 | 6.7 | 0.4 | 0.7 | o |
| C38b | Lake of Islands | 27/11/75 | 2.0 | 4.7 | 80 | 64. | 0.6 | 14.0 | 0.3 | 0.5 | u |
| | | 9/8/76 | 20.0 | 5.3 | 70 | 37. | 0.8 | 12.0 | 0.6 | 0.8 | o |
| C41.4a | Long Pond | 27/11/75 | 2.5 | 6.3 | 10 | 40. | 0.2 | 5.3 | 0.7 | 0.1 | o |
| | | 9/8/76 | 22.0 | 6.4 | 15 | 35. | 0.2 | 5.0 | 0.5 | 0.4 | o |
| C41.5c | Roper | 26/11/75 | 1.0 | 5.0 | 75 | 36. | 1.2 | 7.7 | 1.3 | 0.4 | u |
| | | 9/8/76 | 19.0 | 5.1 | 80 | 34. | 1.0 | 7.3 | 0.4 | 1.2 | o |
| C41c | Dundas No. 3 | 26/11/75 | 1.5 | 4.7 | 90 | 59. | 0.6 | 10.0 | 0.5 | 0.3 | u |
| | | 9/8/76 | 19.0 | 5.3 | 70 | 35. | 0.6 | 11.0 | 0.5 | 0.8 | o |
| C41d10a | Dundas No. 5 | 26/11/75 | 1.8 | 4.7 | 80 | 60. | 0.5 | 13.0 | 0.3 | 0.2 | u |
| | | 9/8/76 | 19.0 | 5.1 | 75 | 34. | 0.7 | 17.0 | 1.2 | 1.7 | o |
| C42b | Cann's | 9/8/76 | 22.0 | 6.3 | 25 | 30. | 0.2 | 8.6 | 1.0 | 0.3 | o |
| C43a | MacDougall's | 9/8/76 | 22.0 | 6.4 | 10 | 35. | 0.3 | 5.2 | 0.9 | 0.0 | o |
| C44.6.1d | Gull | 26/11/75 | 1.0 | 4.8 | 75 | 40. | 0.5 | 13.0 | 1.1 | 0.3 | u |
| | | 9/8/76 | --- | 5.7 | 60 | 31. | 0.4 | 31.0 | 1.2 | 0.7 | o |
| C44.8a | Two Island | 25/11/75 | 2.0 | 5.0 | 60 | 34. | 0.5 | 6.8 | 0.5 | 0.5 | u |
| | | 9/8/76 | --- | 5.4 | 40 | 34. | 0.4 | 13.0 | 0.5 | 0.6 | o |
| C44.9.1.2a | Indian | 25/11/75 | 2.0 | 5.6 | 60 | 34. | 0.5 | 11.0 | 0.5 | 0.4 | u |
| | | 9/8/76 | 19.0 | 6.1 | 40 | 20. | 0.5 | 38.0 | 1.7 | 1.4 | o |
| C44a | White Hill | 26/11/75 | 1.5 | 4.8 | 100 | 49. | 1.2 | 16.0 | 0.2 | 0.7 | u |
| | | 9/8/76 | 19.0 | 5.5 | 80 | 37. | 0.9 | 28.0 | 0.7 | 1.0 | o |

Continued

Table 65. Continued.

| Drainage Reference | Location | Date | Temp. °C | pH | Color Hazen Units | Spec. Cond. µmho/cm at 25°C | Turbidity APHA units | Total phos. mg P/m$^3$ | Chloro. a mg/m$^3$ | Phaeo. mg/m$^3$ | Depth surface=o under ice=u |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C45a | Freshwater | 27/11/75 | 4.8 | 6.8 | 5 | 168. | 0.3 | 11.0 | 3.4 | 1.0 | o |
| | | 10/8/76 | 22.0 | 7.4 | 8 | 138. | 0.2 | 4.7 | 0.9 | 0.6 | o |
| W19.3a | Sugar Brook No. 2 | 9/8/76 | 22.0 | 6.1 | 5 | 42. | 0.2 | 5.7 | 0.4 | 0.4 | o |
| W19.4(9)a | MacIntosh | 27/11/75 | 1.8 | 6.6 | 35 | 54. | 0.4 | 7.7 | 3.8 | 0.1 | u |
| | | 9/8/76 | 21.0 | 6.8 | 8 | 42. | 0.4 | 9.1 | 1.2 | 0.6 | o |
| W22.2a | Benjie's | 25/10/76 | 3.5 | 5.6 | 50 | 42. | 0.3 | 3.2 | 0.6 | 1.2 | o |
| W24.8.1a | Bog Exhibit Pond | 9/8/76 | 17.0 | 7.4 | 40 | 65. | 1.2 | 8.6 | 0.4 | 0.6 | o |
| W24.8.1c | Bog South Pond | 11/8/76 | 17.0 | 4.3 | 90 | 42. | 0.9 | 8.3 | 0.9 | 1.6 | o |
| W24a | Fishing Cove | 25/10/76 | 3.5 | 5.2 | 65 | 43. | 0.4 | 4.7 | 0.1 | 0.2 | o |
| W30.6a | French | 27/11/75 | 1.8 | 5.7 | 45 | 64. | 1.8 | 8.3 | 0.7 | 0.8 | u |
| | | 11/8/76 | 18.0 | 5.9 | 30 | 55. | 0.5 | 7.0 | 0.4 | 0.6 | o |
| W30b | Corney | 27/11/75 | 2.0 | 5.1 | 50 | 59. | 0.5 | 12.0 | 0.4 | 0.4 | u |
| | | 10/8/76 | 22.0 | 6.5 | 90 | 38. | 1.4 | 22.0 | 2.1 | 2.6 | o |
| W32a | Little Presqu'ile | 27/11/75 | 4.0 | 7.3 | 2 | 370. | 0.4 | 20.0 | 4.9 | 0.5 | u |
| W32b | Presqu'ile | 27/11/75 | 3.0 | 7.2 | 5 | 326. | 0.8 | 17.0 | 6.1 | 0.0 | u |
| | | 11/8/76 | 21.0 | 7.6 | 10 | 267. | 2.0 | 14.0 | 7.0 | 4.1 | o |
| W34.3.3c | Lac des Plees Ferrees No. 3 | 10/8/76 | 21.0 | 6.1 | 70 | 35. | 0.9 | 7.1 | 2.0 | 1.8 | o |
| W34.32.1a | Cranberry | 26/11/75 | 1.8 | 4.8 | 55 | 45. | 2.3 | 11.0 | 2.2 | 1.8 | u |
| | | 9/8/76 | 21.0 | 5.1 | 60 | 40. | 1.8 | 7.9 | 1.4 | 1.5 | o |

Table 66 . Specific conductance, salinity, major ions, iron, hydrogen ion and pH in surface waters of 47 lakes collected during aerial surveys of Cape Breton Highlands National Park.

| Drainage Reference | Name | Date | µmho/cm | mg/l | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cond. | Salin. | $Ca^{++}$ | $Mg^{++}$ | $Na^{+}$ | $K^{+}$ | $Fe^{++}$ | $H^{+}$ | $HCO_3^{-}$ | $SO_4^{=}$ | $Cl^{-}$ | $SiO_2$ | pH |
| C22.13.4b | Bear No. 1 | *26/11/75 | 54.5 | 26.5 | 1.4 | 1.2 | 5.5 | 0.5 | 0.02 | 0.003 | 2.8 | 5.0 | 11.5 | 2.8 | 5.6 |
| | | 9/8/76 | 46. | 17.0 | 1.1 | 0.7 | 3.8 | 0.3 | 0.10 | 0.001 | 3.4 | 3.7 | 5.6 | 0.8 | 5.7 |
| C22.13d | Deer | *26/11/75 | 54.1 | 31.1 | 2.8 | 1.2 | 5.2 | 0.6 | 0.03 | 0.002 | 3.7 | 8.0 | 11.5 | 2.2 | 5.7 |
| | | 9/8/76 | 41. | 17.8 | 1.6 | 0.8 | 3.5 | 0.2 | 0.10 | 0.001 | 6.6 | 3.2 | 5.2 | 0.2 | 5.9 |
| C23.1.3e | Chain No.4 | *27/11/75 | 34.8 | 21.8 | 0.8 | 0.7 | 4.2 | 0.4 | 0.01 | 0.002 | 1.5 | 8.0 | 7.0 | 1.3 | 5.8 |
| | | 9/8/76 | 35. | 16.1 | 0.8 | 0.6 | 4.0 | 0.3 | 0.07 | 0.001 | 2.1 | 3.0 | 6.3 | 0.8 | 6.0 |
| C23.1d5a | John Dee | *25/11/75 | 40.1 | 28.0 | 1.2 | 0.9 | 5.1 | 0.5 | 0.13 | 0.005 | 1.1 | 10.0 | 9.6 | 3.0 | 5.3 |
| | | 9/8/76 | 47. | 15.6 | 1.0 | 0.55 | 3.9 | 0.3 | 0.25 | 0.001 | 3.3 | 2.1 | 5.9 | 1.7 | 5.8 |
| C23.1f8a | Roundhill No. 1 | *26/11/75 | 44.4 | 23.7 | 1.1 | 0.9 | 4.9 | 0.4 | 0.05 | 0.002 | 3.2 | 6.0 | 8.8 | 2.5 | 5.8 |
| | | 9/8/76 | 40. | 14.5 | 0.7 | 0.6 | 3.6 | 0.2 | 0.30 | 0.003 | 1.7 | 2.9 | 5.4 | 0.7 | 5.8 |
| C23.1g | Gwinn | *26/11/75 | 49.7 | 25.7 | 0.9 | 0.9 | 5.2 | 0.3 | 0.14 | 0.013 | 0.6 | 8.0 | 9.9 | 3.2 | 4.9 |
| | | 9/8/76 | 38. | 12.7 | 0.5 | 0.4 | 3.2 | 0.2 | 0.30 | 0.003 | 1.1 | 3.0 | 4.6 | 1.2 | 5.1 |
| C23.9d | Twin No.1 | *26/11/75 | 49.4 | 25.5 | 1.1 | 0.9 | 5.0 | 0.5 | 0.08 | 0.005 | 1.9 | 7.0 | 9.9 | 2.2 | 5.3 |
| | | 9/8/76 | 40. | 15.6 | 0.9 | 0.6 | 3.4 | 0.2 | 0.10 | 0.004 | 3.8 | 3.1 | 5.4 | 1.2 | 5.5 |
| C23c | Baldwin | *26/11/75 | 49.3 | 23.3 | 1.0 | 0.9 | 5.1 | 0.5 | 0.11 | 0.008 | 1.3 | 5.0 | 10.0 | 2.2 | 5.1 |
| | | 9/8/76 | 41. | 13.8 | 0.6 | 0.5 | 3.5 | 0.3 | 0.10 | 0.005 | 1.5 | 2.8 | 5.3 | 1.5 | 5.6 |
| C23d | Twin No.2 | *26/11/75 | 39.5 | 21.4 | 0.9 | 0.9 | 4.2 | 0.5 | 0.09 | 0.005 | 2.3 | 6.0 | 7.7 | 2.1 | 5.3 |
| | | 9/8/76 | 37. | 15.5 | 0.9 | 0.6 | 3.5 | 0.4 | 0.10 | 0.001 | 2.4 | 3.0 | 5.8 | 0.5 | 5.4 |
| C24a | Burton | *25/11/75 | 40.2 | 21.5 | 1.1 | 0.9 | 4.9 | 0.5 | 0.08 | 0.006 | 1.3 | 3.8 | 9.6 | 3.1 | 5.2 |
| | | 9/8/76 | 37. | 16.1 | 1.0 | 0.5 | 3.8 | 0.3 | 0.20 | 0.000 | 2.8 | 3.2 | 5.7 | 1.6 | 5.2 |
| C24g | Glasgow | *25/11/75 | 32.5 | 17.4 | 0.4 | 0.5 | 3.5 | 0.3 | 0.09 | 0.010 | 1.0 | 6.0 | 6.1 | 2.1 | 5.0 |
| | | 9/8/76 | 26. | 12.4 | 0.5 | 0.4 | 3.2 | 0.1 | 0.40 | 0.006 | 0.7 | 2.2 | 5.2 | 1.6 | 5.1 |
| C25.2.1a | Paquette | *25/11/75 | 59.6 | 50.6 | 4.6 | 1.0 | 6.8 | 6.8 | 0.03 | 0.000 | 12.9 | 12.0 | 13.0 | 4.1 | 6.5 |
| | | 9/8/76 | 62. | 31.4 | 6.5 | 0.7 | 4.9 | 0.1 | 0.35 | 0.000 | 21.5 | 2.0 | 6.3 | 2.2 | 7.3 |

Continued

Table 66, continued.

| Drainage Reference | Name | Date | µmho/cm Cond. | mg/l Salin. | $Ca^{++}$ | $Mg^{++}$ | $Na^{+}$ | $K^{+}$ | $Fe^{++}$ | $H^{+}$ | $HCO_3^{-}$ | $SO_4^{=}$ | $Cl^{-}$ | $SiO_2$ | pH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C33.3b | Mica Hill | * 25/11/75 | 54.5 | 39.7 | 1.4 | 1.0 | 7.0 | 3.4 | 0.09 | 0.016 | 0.6 | 12.0 | 14.5 | 4.5 | 4.8 |
| | | 8/10/76 | 34. | 22.3 | 1.4 | 0.8 | 5.8 | 0.6 | 0.20 | 0.006 | 1.95 | 4.1 | 8.4 | 6.0 | 5.5 |
| C33b | Round | * 27/11/75 | 49.6 | 26.0 | 0.9 | 0.9 | 5.1 | 0.4 | 0.10 | 0.016 | 1.1 | 8.0 | 10.0 | 2.8 | 4.8 |
| | | 9/8/76 | 38. | 13.8 | 0.6 | 0.5 | 3.5 | 0.2 | 0.30 | 0.004 | 1.6 | 2.6 | 5.3 | 1.3 | 5.2 |
| C33h | Five Island | * 27/11/75 | 39.6 | 21.2 | 0.6 | 0.7 | 4.2 | 0.4 | 0.06 | 0.010 | 1.2 | 7.0 | 7.7 | 2.3 | 5.0 |
| | No. 1 | 9/8/76 | 38. | 11.5 | 0.5 | 0.4 | 2.9 | 0.1 | 0.20 | 0.005 | 0.6 | 2.6 | 4.5 | 0.4 | 4.9 |
| C34a | Jigging Cove | 25/11/75 | 97.0 | 57.4 | 2.2 | 1.5 | 13.5 | 0.8 | 0.07 | 0.006 | 1.7 | 13.0 | 25.5 | 4.7 | 5.2 |
| | | 9/8/76 | 87. | 42.6 | 1.4 | 0.8 | 13.0 | 0.2 | 0.04 | 0.001 | 0.6 | 4.8 | 22.0 | 1.4 | 4.9 |
| | | 27/10/76 | 113 | 59.6 | 2.5 | 1.3 | 18.0 | 0.5 | 0.25 | 0.020 | 1.1 | 7.5 | 29.0 | 4.0 | 4.9 |
| C36.1.2a | Broad Cove | * 25/11/75 | 38.4 | 21.9 | 0.8 | 0.6 | 4.7 | 0.6 | 0.01 | 0.001 | 2.2 | 6.0 | 8.1 | 1.1 | 5.9 |
| | Mountain | 9/8/76 | 38. | 14.8 | 0.7 | 0.4 | 4.3 | 0.2 | 0.04 | 0.001 | 1.5 | 2.4 | 6.0 | 0.5 | 6.3 |
| C36.1.3b | Brown's | * 25/11/75 | 63.9 | 29.1 | 0.6 | 0.9 | 4.6 | 0.6 | 0.12 | 0.020 | 0.6 | 11.0 | 11.0 | 4.3 | 4.7 |
| | | 9/8/76 | 59. | 15.5 | 0.6 | 0.5 | 3.9 | 0.2 | 0.15 | 0.010 | 1.2 | 3.7 | 5.8 | 1.7 | 4.8 |
| C36.1.5a | Rudderham | * 25/11/75 | 39.5 | 23.8 | 0.4 | 0.5 | 4.2 | 0.4 | 0.03 | 0.016 | 1.3 | 10.0 | 7.6 | 2.4 | 4.8 |
| | | 9/8/76 | 35. | 13.6 | 0.5 | 0.5 | 3.5 | 0.2 | 0.10 | 0.013 | 0.6 | 3.0 | 5.5 | 0.8 | 5.2 |
| C36.1b | Branch Pond | * 25/11/75 | 54.0 | 26.3 | 0.5 | 0.6 | 4.5 | 0.5 | 0.08 | 0.020 | 0.6 | 10.0 | 9.8 | 4.3 | 4.7 |
| | | 9/8/76 | 31. | 13.8 | 0.6 | 0.5 | 3.5 | 0.2 | 0.15 | 0.001 | 1.6 | 3.1 | 5.0 | 2.6 | 5.2 |
| C36.13a | Sunday | * 26/11/75 | 59.4 | 36.3 | 1.4 | 1.2 | 6.5 | 0.4 | 0.12 | 0.013 | 1.3 | 13.0 | 13.0 | 2.8 | 4.9 |
| | | 9/8/76 | 35. | 18.6 | 1.2 | 0.7 | 4.6 | 0.4 | 0.25 | 0.003 | 3.7 | 3.0 | 6.7 | 2.3 | 6.2 |
| C38a | Warren | 25/11/75 | 33.6 | 18.2 | 1.1 | 0.6 | 4.0 | 0.4 | 0.09 | 0.002 | 2.3 | 4.0 | 6.9 | 3.2 | 5.8 |
| | | 9/8/76 | 31. | 18.1 | 1.3 | 0.75 | 3.8 | 0.2 | 0.10 | 0.000 | 6.6 | 2.9 | 5.8 | 2.8 | 6.3 |
| C38a3a | Cradle | 25/11/75 | 31.7 | 18.9 | 0.6 | 0.6 | 3.8 | 0.4 | 0.01 | 0.002 | 2.6 | 6.0 | 6.2 | 1.7 | 5.8 |
| | | 9/8/76 | 32. | 16.6 | 0.9 | 0.6 | 3.8 | 0.3 | 0.03 | 0.001 | 4.4 | 2.9 | 5.9 | 1.6 | 6.0 |
| C38.4a | Spud | * 26/11/75 | 54.3 | 28.5 | 0.6 | 0.8 | 5.0 | 0.3 | 0.05 | 0.020 | 0.6 | 12.0 | 9.4 | 4.7 | 4.7 |
| | | 9/8/76 | 51. | 12.9 | 0.5 | 0.45 | 3.4 | 0.1 | 0.10 | 0.006 | 0.7 | 3.2 | 4.8 | 1.2 | 4.9 |

continued

Table 66, continued.

| Drainage Reference | Name | | Date | µmho/cm Cond. | mg/l Salin. | $Ca^{++}$ | $Mg^{++}$ | $Na^{+}$ | $K^{+}$ | $Fe^{++}$ | $H^{+}$ | $HCO_3^{-}$ | $SO_4^{=}$ | $Cl^{-}$ | $SiO_2$ | pH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C38b | Lake of Islands | * | 27/11/75 | 63.8 | 29.7 | 1.1 | 1.2 | 6.1 | 0.4 | 0.12 | 0.020 | 0.5 | 8,0 | 12.5 | 3.8 | 4.7 |
| | | | 9/8/76 | 37. | 15.1 | 0.5 | 0.6 | 3.9 | 0.2 | 0.15 | 0.008 | 1.0 | 3.8 | 5.5 | 1.4 | 5.3 |
| C41.4a | Long Pond | | 27/11/75 | 39.5 | 20.9 | 1.7 | 0.9 | 3.9 | 0.8 | 0.01 | 0.001 | 5.9 | 3.0 | 7.7 | 2.9 | 6.3 |
| | | | 9/8/76 | 35. | 21.4 | 1.9 | 0.9 | 4.3 | 0.4 | 0.10 | 0.000 | 9.3 | 3.0 | 6.2 | 2.7 | 6.4 |
| C41.5c | Roper | * | 26/11/75 | 35.5 | 21.0 | 0.5 | 0.7 | 3.8 | 0.2 | 0.15 | 0.010 | 2.2 | 8.0 | 6.6 | 2.8 | 5.0 |
| | | | 9/8/76 | 34. | 12.3 | 0.5 | 0.4 | 2.9 | 0.4 | 0.25 | 0.003 | 1.3 | 2.8 | 4.4 | 1.0 | 5.1 |
| C41c | Dundas No. 3 | * | 26/11/75 | 59.3 | 32.2 | 1.0 | 1.0 | 5.6 | 0.5 | 0.11 | 0.020 | 1.0 | 12.0 | 11.5 | 3.8 | 4.7 |
| | | | 9/8/76 | 35. | 13.8 | 0.6 | 0.4 | 3.5 | 0.3 | 0.15 | 0.010 | 1.5 | 3.1 | 5.0 | 2.5 | 5.3 |
| C41d10a | Dundas No. 5 | * | 26/11/75 | 59.5 | 33.9 | 0.9 | 1.0 | 5.7 | 0.4 | 0.09 | 0.020 | 0.6 | 14.0 | 11.5 | 4.2 | 4.7 |
| | | | 9/8/76 | 34. | 14.0 | 0.6 | 0.5 | 3.5 | 0.3 | 0.15 | 0.005 | 1.2 | 3.2 | 5.1 | 3.9 | 5.1 |
| C42b | Cann's | | 9/8/76 | 30. | 13.9 | 0.8 | 0.6 | 3.4 | 0.2 | 0.02 | 0.001 | 1.6 | 3.0 | 5.1 | 0.4 | 6.3 |
| C43a | MacDougall's | | 9/8/76 | 35. | 16.0 | 1.1 | 0.7 | 3.6 | 0.3 | 0.02 | 0.001 | 4.4 | 2.8 | 5.3 | 1.8 | 6.4 |
| C44.6.1d | Gull | * | 26/11/75 | 39.8 | 23.3 | 0.8 | 0.8 | 4.3 | 0.4 | 0.10 | 0.016 | 0.6 | 8.0 | 8.6 | 3.5 | 4.8 |
| | | | 9/8/76 | 31. | 11.6 | 0.5 | 0.4 | 2.9 | 0.2 | 0.15 | 0.003 | 0.7 | 2.9 | 4.2 | 1.9 | 5.7 |
| C44.8a | Two Island | * | 25/11/75 | 34.4 | 16.2 | 0.4 | 0.6 | 4.0 | 0.4 | 0.16 | 0.010 | 1.2 | 3.0 | 7.0 | 1.5 | 5.0 |
| | | | 9/8/76 | 34. | 10.1 | 0.5 | 0.3 | 2.5 | 0.1 | 0.35 | 0.002 | 2.3 | 1.4 | 3.8 | 1.4 | 5.4 |
| C44.9.1.2a | Indian | * | 25/11/75 | 34.4 | 19.5 | 0.6 | 0.5 | 4.1 | 0.5 | 0.05 | 0.002 | 0.8 | 6.0 | 7.3 | 3.1 | 5.6 |
| | | | 9/8/76 | 20. | 11.7 | 0.7 | 0.4 | 2.8 | 0.3 | 0.10 | 0.003 | 4.4 | 1.4 | 3.9 | 1.9 | 6.1 |
| C44a | White Hill | * | 26/11/75 | 49.4 | 23.5 | 0.6 | 0.9 | 4.8 | 0.4 | 0.12 | 0.016 | 0.6 | 7.0 | 9.4 | 1.8 | 4.8 |
| | | | 9/8/76 | 37. | 11.4 | 0.5 | 0.4 | 2.9 | 0.2 | 0.35 | 0.020 | 1.7 | 2.1 | 4.1 | 1.7 | 5.5 |
| C45a | Freshwater | | 27/11/75 | 168. | 84.7 | 11.0 | 2.0 | 16.0 | 1.2 | 0.01 | 0.000 | 5.0 | 23.0 | 29.0 | 0.9 | 6.8 |
| | | | 10/8/76 | 138. | 86.6 | 11.0 | 1.8 | 19.5 | 0.7 | 0.04 | 0.000 | 15.1 | 18.1 | 28.0 | 0.2 | 7.4 |
| W19.3a | Sugar Brook No. 2 | | 9/8/76 | 42. | 21.8 | 1.4 | 0.7 | 5.3 | 0.3 | 0.04 | 0.003 | 3.3 | 3.8 | 8.6 | 0.1 | 6.1 |
| W19.4(9)a | MacIntosh | * | 27/11/75 | 54.2 | 32.4 | 1.8 | 0.9 | 6.0 | 0.6 | 0.05 | 0.001 | 10.5 | 8.0 | 10.5 | 3.1 | 6.0 |
| | | | 9/8/76 | 42. | 21.5 | 2.1 | 0.7 | 4.8 | 0.5 | 0.10 | 0.001 | 5.3 | 3.6 | 7.1 | 0.5 | 6.8 |

continued

Table 66, continued.

| Drainage Reference | Name | Date | µmho/cm Cond. | mg/l Salin. | $Ca^{++}$ | $Mg^{++}$ | $Na^{+}$ | $K^{+}$ | $Fe^{++}$ | $H^{+}$ | $HCO_3^{-}$ | $SO_4^{=}$ | $Cl^{-}$ | $SiO_2$ | pH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W22.2a | Benjie's | 25/10/76 | 42. | 20.2 | 1.0 | 0.9 | 4.8 | 0.4 | 0.10 | 0.003 | 2.4 | 3.0 | 8.8 | 4.0 | 5.6 |
| W24.8.1a | Bog Exhibit Pond | 9/8/76 | 65. | 53.6 | 13.0 | 2.3 | 4.7 | 0.4 | 0.50 | 0.000 | 48.3 | 2.4 | 6.5 | 3.6 | 7.0 |
| W24.8.1c | Bog South Pond | 11/8/76 | 42. | 13.8 | 0.5 | 0.5 | 3.1 | 0.1 | 0.15 | 0.100 | 0.0 | 4.9 | 4.5 | 0.1 | 4.3 |
| W24a | Fishing Cove | 25/10/76 | 43. | 19.5 | 1.1 | 0.9 | 4.1 | 0.6 | 0.20 | 0.006 | 0.6 | 3.5 | 8.8 | 4.2 | 5.2 |
| W30.6a | French | *27/11/75 | 64.2 | 36.6 | 2.0 | 1.0 | 9.1 | 0.6 | 0.09 | 0.002 | 2.6 | 8.0 | 14.5 | 1.5 | 5.7 |
| | | 11/8/76 | 55. | 30.6 | 1.6 | 1.0 | 7.7 | 0.2 | 0.10 | 0.006 | 2.7 | 4.7 | 14.0 | 0.4 | 5.9 |
| W30b | Corney | *27/11/75 | 59.2 | 29.6 | 1.4 | 1.2 | 6.9 | 0.6 | 0.13 | 0.008 | 1.7 | 6.0 | 12.5 | 4.2 | 5.1 |
| | | 10/8/76 | 38. | 21.6 | 1.5 | 1.2 | 4.5 | 0.3 | 0.70 | 0.001 | 6.0 | 4.8 | 5.7 | 0.7 | 6.5 |
| W32a | Little Presqu'ile | *27/11/75 | 370. | 191.2 | 30.0 | 4.9 | 34.0 | 2.2 | 0.08 | 0.000 | 69.1 | 17.0 | 69.0 | 1.6 | 7.3 |
| W32b | Presqu'ile | *27/11/75 | 326. | 175.3 | 26.0 | 4.5 | 32.0 | 2.2 | 0.01 | 0.000 | 70.4 | 17.0 | 59.0 | 0.5 | 7.2 |
| | | 11/8/76 | 267. | 154.8 | 24.0 | 4.0 | 28.5 | 1.2 | 0.04 | 0.000 | 61.0 | 14.0 | 53.0 | 0.2 | 7.6 |
| W34.3.3c | Lac des Plees Ferrees No. 3 | 10/8/76 | 35. | 20.0 | 1.4 | 0.6 | 4.4 | 0.4 | 0.50 | 0.002 | 3.5 | 4.8 | 6.1 | 2.0 | 6.1 |
| W34.32.1a | Cranberry | *25/11/75 | 44.6 | 19.4 | 0.5 | 0.7 | 4.3 | 0.3 | 0.01 | 0.016 | 0.6 | 5.0 | 8.2 | 0.6 | 4.8 |
| | | 9/8/76 | 45. | 11.1 | 0.4 | 0.4 | 2.6 | 0.2 | 0.10 | 0.32 | 0.6 | 3.1 | 4.0 | 0.1 | 4.8 |

* Sampled under ice.

Table 67 . Relative proportions of major ions in surface waters of 47 lakes collected during aerial surveys of Cape Breton Highlands National Park. Values are given in equivalent percentages of total cations and of total anions.

| Drainage Reference | Name | Date | Percent $Ca^{++}$ | $Mg^{++}$ | $Na^{+}$ | $K^{+}$ | Fe | $H^{+}$ | $HCO_3^{-}$ | $SO_4^{=}$ | $Cl^{-}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C22.13.4b | Bear No. 1 | * 26/11/75 | 16.5 | 23.3 | 56.2 | 3.1 | 0.2 | 0.7 | 9.7 | 21.9 | 68.4 |
| | | 9/8/76 | 18.9 | 19.9 | 56.7 | 2.7 | 1.4 | 0.3 | 19.2 | 26.5 | 54.3 |
| C22.13d | Deer | * 26/11/75 | 29.0 | 20.5 | 46.8 | 3.1 | 0.2 | 0.4 | 10.9 | 30.2 | 58.9 |
| | | 9/8/76 | 26.0 | 21.4 | 49.4 | 1.6 | 1.3 | 0.3 | 33.5 | 20.8 | 45.7 |
| C23.1.3e | Chain No.4 | * 27/11/75 | 13.6 | 19.6 | 62.4 | 3.5 | 0.1 | 0.7 | 6.2 | 42.9 | 50.9 |
| | | 9/8/76 | 14.9 | 18.3 | 64.9 | 0.4 | 1.1 | 0.4 | 12.4 | 22.6 | 65.0 |
| C23.1d5a | John Dee | * 25/11/75 | 15.8 | 19.5 | 58.7 | 3.4 | 1.3 | 1.3 | 3.6 | 41.9 | 54.5 |
| | | 9/8/76 | 17.7 | 15.9 | 60.1 | 2.8 | 3.2 | 0.4 | 20.5 | 16.7 | 62.9 |
| C23.1f8a | Roundhill No. 1 | * 26/11/75 | 15.4 | 20.8 | 59.8 | 2.8 | 0.6 | 0.6 | 12.2 | 29.4 | 58.4 |
| | | 9/8/76 | 13.5 | 18.8 | 60.4 | 1.9 | 4.2 | 1.2 | 11.7 | 25.0 | 63.3 |
| C23.1g | Gwinn | * 26/11/75 | 12.1 | 20.0 | 60.9 | 2.2 | 1.4 | 3.4 | 1.6 | 44.0 | 54.4 |
| | | 9/8/76 | 11.6 | 15.3 | 64.4 | 2.3 | 5.1 | 1.4 | 8.6 | 29.5 | 61.9 |
| C23.9d | Twin No.1 | * 26/11/75 | 15.0 | 20.1 | 59.2 | 3.5 | 0.8 | 1.4 | 5.4 | 39.2 | 55.4 |
| | | 9/8/76 | 17.6 | 19.2 | 58.0 | 2.0 | 1.6 | 1.6 | 22.3 | 23.0 | 54.7 |
| C23c | Baldwin | * 26/11/75 | 13.5 | 19.9 | 59.8 | 3.5 | 1.1 | 1.2 | 5.4 | 25.5 | 69.1 |
| | | 9/8/76 | 12.5 | 17.1 | 63.3 | 3.3 | 1.7 | 2.1 | 10.4 | 25.1 | 64.5 |
| C23d | Twin No.2 | * 26/11/75 | 13.9 | 22.9 | 56.7 | 4.0 | 0.9 | 1.5 | 10.0 | 32.9 | 57.1 |
| | | 9/8/76 | 17.2 | 18.8 | 58.2 | 3.8 | 1.5 | 0.4 | 15.0 | 23.3 | 61.7 |
| C24a | Burton | * 25/11/75 | 15.1 | 20.3 | 58.5 | 3.6 | 0.8 | 1.6 | 5.9 | 21.2 | 72.8 |
| | | 9/8/76 | 18.5 | 15.1 | 60.9 | 3.0 | 2.6 | | 16.8 | 24.5 | 58.8 |
| C24g | Glasgow | * 25/11/75 | 8.6 | 17.5 | 65.0 | 3.4 | 1.3 | 4.2 | 5.1 | 39.9 | 55.0 |
| | | 9/8/76 | 11.4 | 14.9 | 63.2 | 1.2 | 6.5 | 2.9 | 5.9 | 22.4 | 71.7 |
| C25.2.1a | Paquette | * 25/11/75 | 29.4 | 10.5 | 37.8 | 22.2 | 0.1 | 0.0 | 25.6 | 30.2 | 44.3 |
| | | 9/8/76 | 53.3 | 9.0 | 35.0 | 0.5 | 2.1 | | 61.5 | 7.3 | 31.1 |

continued

Table 67, continued.

| Drainage Reference | Name | | Date | Percent | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $Ca^{++}$ | $Mg^{++}$ | $Na^{+}$ | $K^{+}$ | Fe | $H^{+}$ | $HCO_3^{-}$ | $SO_4$ | $Cl^{-}$ |
| C33.3b | Mica Hill | * | 25/11/75 | 12.4 | 14.6 | 54.2 | 15.5 | 0.5 | 2.8 | 1.5 | 37.4 | 61.1 |
| | | | 8/10/76 | 16.8 | 15.8 | 60.5 | 3.7 | 1.7 | 1.5 | 9.0 | 24.1 | 66.9 |
| C33b | Round | * | 27/11/75 | 12.1 | 20.0 | 59.8 | 2.7 | 1.1 | 4.3 | 3.9 | 35.6 | 60.5 |
| | | | 9/8/76 | 12.6 | 16.9 | 62.6 | 2.1 | 4.5 | 1.6 | 11.4 | 23.6 | 65.1 |
| C33h | Five Island No. 1 | * | 27/11/75 | 10.2 | 19.8 | 62.5 | 3.4 | 0.7 | 3.4 | 4.7 | 38.3 | 57.0 |
| | | | 9/8/76 | 12.6 | 16.6 | 63.3 | 1.5 | 3.5 | 2.5 | ~5.2 | ~28.3 | ~66.5 |
| C34a | Jigging Cove | | 25/11/75 | 13.0 | 14.5 | 69.2 | 2.4 | 0.2 | 0.0 | 2.8 | 26.5 | 70.7 |
| | | | 9/8/76 | 9.9 | 9.4 | 79.7 | 0.7 | 0.1 | 0.1 | 1.4 | 13.7 | 84.9 |
| | | | 27/10/76 | 11.8 | 10.1 | 74.1 | 1.2 | 0.9 | 1.9 | 1.8 | 15.7 | 82.5 |
| C36.1.2a | Broad Cove Mountain | * | 25/11/75 | 12.9 | 15.8 | 65.9 | 4.8 | 0.1 | 0.3 | 9.3 | 32.1 | 58.6 |
| | | | 9/8/76 | 13.3 | 13.3 | 70.8 | 1.9 | 0.4 | 0.4 | 9.9 | 20.6 | 69.5 |
| C36.1.3b | Brown's | * | 25/11/75 | 8.8 | 21.6 | 58.3 | 4.4 | 1.2 | 5.7 | 1.8 | 41.7 | 56.5 |
| | | | 9/8/76 | 11.5 | 15.7 | 65.1 | 1.9 | 1.9 | 3.8 | 7.7 | 29.5 | 62.8 |
| C36.1.5a | Rudderham | * | 25/11/75 | 7.4 | 15.1 | 67.5 | 3.7 | 0.4 | 5.9 | 5.0 | 46.9 | 48.1 |
| | | | 9/8/76 | 10.4 | 17.1 | 63.3 | 2.1 | 1.7 | 5.4 | ~4.4 | ~27.3 | ~68.3 |
| C36.1b | Branch Pond | * | 25/11/75 | 8.2 | 16.0 | 64.1 | 4.3 | 1.0 | 6.4 | 2.0 | 42.1 | 55.9 |
| | | | 9/8/76 | 12.8 | 17.5 | 65.0 | 2.1 | 2.1 | 0.4 | 11.3 | 27.7 | 61.0 |
| C36.13a | Sunday | * | 26/11/75 | 14.6 | 20.7 | 59.1 | 2.1 | 0.8 | 2.7 | 3.3 | 41.0 | 55.7 |
| | | | 9/8/76 | 17.6 | 17.1 | 58.8 | 2.9 | 2.6 | 0.9 | 19.3 | 19.9 | 60.8 |
| C38a | Warren | | 25/11/75 | 18.8 | 16.7 | 59.4 | 3.4 | 1.0 | 0.7 | 12.0 | 26.3 | 61.7 |
| | | | 9/8/76 | 21.6 | 20.6 | 54.8 | 1.7 | 1.3 | | 32.5 | 18.1 | 49.4 |
| C38a3a | Cradle | | 25/11/75 | 11.7 | 19.1 | 64.1 | 3.9 | 0.1 | 0.8 | 12.3 | 36.6 | 51.1 |
| | | | 9/8/76 | 16.6 | 18.8 | 60.9 | 3.0 | 0.4 | 0.4 | 24.2 | 20.1 | 55.7 |
| C38.4a | Spud | * | 26/11/75 | 8.7 | 19.2 | 63.4 | 2.3 | 0.6 | 5.8 | 1.9 | 47.6 | 50.5 |
| | | | 9/8/76 | 11.2 | 16.6 | 66.4 | 1.3 | 1.8 | 2.7 | 5.6 | 31.3 | 63.1 |

continued

Table 67, continued.

| Drainage Reference | Name | Date | $Ca^{++}$ | $Mg^{++}$ | $Na^{+}$ | $K^{+}$ | Percent Fe | $H^{+}$ | $HCO_3^{-}$ | $SO_4^{=}$ | $Cl^{-}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C38b | Lake of Islands | * 27/11/75 | 12.1 | 21.9 | 58.5 | 2.2 | 0.9 | 4.4 | 1.5 | 31.6 | 66.9 |
| | | 9/8/76 | 9.5 | 18.7 | 64.9 | 1.9 | 1.9 | 3.1 | 6.4 | 31.6 | 62.0 |
| C41.4a | Long Pond | 27/11/75 | 24.3 | 21.1 | 48.6 | 5.7 | 0.1 | 0.3 | 25.6 | 16.5 | 57.9 |
| | | 9/8/76 | 25.7 | 20.0 | 50.5 | 2.7 | 1.1 | | 39.1 | 15.9 | 45.0 |
| C41.5c | Roper | * 26/11/75 | 9.3 | 21.6 | 61.6 | 1.9 | 1.9 | 3.7 | 9.3 | 42.8 | 47.9 |
| | | 9/8/76 | 12.0 | 16.8 | 60.6 | 4.8 | 4.3 | 1.4 | 10.1 | 28.4 | 60.8 |
| C41c | Dundas No. 3 | * 26/11/75 | 12.1 | 19.8 | 59.1 | 3.2 | 0.9 | 4.8 | 2.7 | 42.4 | 54.9 |
| | | 9/8/76 | 12.6 | 13.9 | 63.9 | 3.4 | 2.1 | 4.2 | 10.5 | 27.9 | 61.6 |
| C41d10a | Dundas No. 5 | * 26/11/75 | 11.0 | 20.1 | 60.8 | 2.5 | 0.7 | 4.7 | 1.6 | 46.6 | 51.8 |
| | | 9/8/76 | 12.4 | 17.0 | 63.1 | 3.3 | 2.1 | 2.1 | 8.7 | 29.0 | 62.3 |
| C42b | Cann's | 9/8/76 | 16.4 | 20.1 | 60.7 | 2.0 | 0.4 | 0.4 | 11.2 | 26.7 | 62.1 |
| C43a | MacDougall's | 9/8/76 | 19.8 | 20.1 | 56.5 | 2.9 | 0.4 | 0.4 | 25.8 | 20.8 | 53.4 |
| C44.6.1d | Gull | * 26/11/75 | 12.4 | 20.4 | 57.9 | 3.1 | 1.2 | 5.0 | 2.4 | 39.7 | 57.9 |
| | | 9/8/76 | 12.7 | 16.8 | 64.0 | 2.5 | 2.5 | 1.5 | 6.3 | 31.6 | 62.1 |
| C44.8a | Two Island | * 25/11/75 | 7.4 | 18.2 | 64.7 | 3.7 | 2.2 | 3.7 | 7.2 | 22.2 | 70.6 |
| | | 9/8/76 | 14.3 | 14.1 | 62.1 | 1.5 | 7.1 | 0.9 | 21.8 | 16.7 | 61.5 |
| C44.9.1.2a | Indian | * 25/11/75 | 11.2 | 15.4 | 66.9 | 4.9 | 0.7 | 0.9 | 4.1 | 36.2 | 59.7 |
| | | 9/8/76 | 17.2 | 15.3 | 60.1 | 3.9 | 2.0 | 1.5 | 34.1 | 13.7 | 52.1 |
| C44a | White Hill | * 26/11/75 | 8.8 | 21.6 | 60.9 | 2.9 | 1.2 | 4.6 | 2.4 | 34.7 | 62.9 |
| | | 9/8/76 | 11.4 | 14.2 | 57.4 | 2.3 | 5.7 | 9.1 | 15.0 | 23.3 | 61.7 |
| C45a | Freshwater | 27/11/75 | 38.1 | 11.4 | 48.3 | 2.1 | 0.1 | 0.0 | 6.0 | 34.7 | 59.3 |
| | | 10/8/76 | 35.1 | 9.5 | 54.2 | 1.2 | 0.1 | | 17.5 | 26.6 | 55.9 |
| W19.3a | Sugar Brook No. 2 | 9/8/76 | 18.9 | 15.6 | 62.3 | 2.2 | 0.3 | 0.8 | 14.4 | 21.0 | 64.6 |
| W19.4(9)a | MacIntosh | * 27/11/75 | 20.3 | 16.7 | 58.9 | 3.4 | 0.5 | 0.2 | 27.1 | 26.2 | 46.7 |
| | | 9/8/76 | 26.9 | 14.9 | 53.6 | 3.3 | 1.0 | 0.3 | 23.8 | 20.8 | 55.4 |

continued

Table 67, continued.

| Drainage Reference | Name | Date | Percent | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $Ca^{++}$ | $Mg^{++}$ | $Na^{+}$ | $K^{+}$ | Fe | $H^{+}$ | $HCO_3^{-}$ | $SO_4^{=}$ | $Cl^{-}$ |
| W22.2a | Benjie's | 25/10/76 | 14.4 | 20.8 | 60.1 | 2.9 | 1.0 | 0.7 | 11.4 | 17.8 | 70.8 |
| W24.8.1a | Bog Exhibit Pond | 9/8/76 | 60.7 | 17.7 | 19.1 | 0.9 | 1.7 | 0.0 | 77.3 | 4.9 | 17.8 |
| W24.8.1c | Bog South Pond | 11/8/76 | 8.1 | 13.3 | 43.7 | 0.8 | 1.8 | 32.4 | 0.0 | 44.5 | 55.5 |
| W24a | Fishing Cove | 25/10/76 | 16.3 | 22.0 | 52.0 | 4.6 | 2.1 | 1.9 | 3.0 | 22.0 | 75.0 |
| W30.6a | French | *25/11/75 | 16.7 | 13.7 | 66.2 | 2.5 | 0.5 | 0.3 | 6.8 | 26.9 | 66.3 |
| | | 11/8/76 | 15.6 | 16.0 | 65.4 | 1.0 | 0.8 | 1.2 | 8.2 | 18.2 | 73.6 |
| W30b | Corney | *27/11/75 | 14.1 | 19.9 | 60.4 | 3.0 | 1.0 | 1.6 | 5.5 | 24.8 | 69.7 |
| | | 10/8/76 | 18.6 | 24.5 | 48.5 | 2.0 | 6.2 | 0.2 | 27.3 | 27.9 | 44.8 |
| W32a | Little Presqu'ile | *27/11/75 | 43.5 | 11.7 | 43.0 | 1.6 | 0.1 | 0.1 | 33.0 | 10.3 | 56.7 |
| W32b | Presqu'ile | *27/11/75 | 41.6 | 11.9 | 44.7 | 1.8 | 0.1 | 0.1 | 36.3 | 11.2 | 52.5 |
| | | 11/8/76 | 42.8 | 11.8 | 44.3 | 1.1 | 0.0 | | 35.9 | 10.4 | 53.7 |
| W34.3.3c | Lac des Plees Ferrees No. 3 | 10/8/76 | 20.5 | 14.9 | 55.8 | 2.9 | 5.3 | 0.6 | 17.6 | 30.3 | 52.1 |
| W34.32.1a | Cranberry | *25/11/75 | 8.4 | 19.5 | 62.8 | 2.7 | 1.3 | 5.3 | 2.9 | 30.1 | 67.0 |
| | | 9/8/76 | 9.8 | 15.1 | 55.1 | 2.4 | 2.0 | 15.6 | ~5.3 | ~34.2 | ~60.4 |

* Sampled under ice.

Table 68. Concentration of major ions, iron and hydrogen ion in surface waters of 47 lakes collected during aerial surveys of Cape Breton Highlands National Park. All values in milliequivalents per liter.

| Drainage Reference | Name | Date | meq/l | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $Ca^{++}$ | $Mg^{++}$ | $Na^{+}$ | $K^{+}$ | Fe | $H^{+}$ | Total Cations | $HCO_3^{-}$ | $SO_4^{=}$ | $Cl^{-}$ | Total Ions |
| C22.13.4b | Bear No. 1 | *26/11/75 | 0.070 | 0.099 | 0.239 | 0.013 | 0.001 | 0.003 | 0.425 | 0.046 | 0.104 | 0.324 | 0.899 |
| | | 9/8/76 | 0.055 | 0.058 | 0.165 | 0.008 | 0.004 | 0.001 | 0.291 | 0.056 | 0.077 | 0.158 | 0.582 |
| C22.13d | Deer | *26/11/75 | 0.140 | 0.099 | 0.226 | 0.015 | 0.001 | 0.002 | 0.483 | 0.060 | 0.166 | 0.324 | 1.033 |
| | | 9/8/76 | 0.080 | 0.066 | 0.152 | 0.005 | 0.004 | 0.001 | 0.308 | 0.108 | 0.067 | 0.147 | 0.630 |
| C23.1.3e | Chain No.4 | *27/11/75 | 0.040 | 0.058 | 0.183 | 0.010 | <0.001 | 0.002 | 0.293 | 0.024 | 0.166 | 0.197 | 0.681 |
| | | 9/8/76 | 0.040 | 0.049 | 0.174 | 0.001 | 0.003 | 0.001 | 0.268 | 0.034 | 0.062 | 0.178 | 0.542 |
| C23.1d5a | John Dee | *25/11/75 | 0.060 | 0.074 | 0.222 | 0.013 | 0.005 | 0.005 | 0.379 | 0.018 | 0.208 | 0.271 | 0.876 |
| | | 9/8/76 | 0.050 | 0.045 | 0.170 | 0.008 | 0.009 | 0.001 | 0.283 | 0.054 | 0.044 | 0.166 | 0.547 |
| C23.1f8a | Roundhill No. 1 | *26/11/75 | 0.055 | 0.074 | 0.213 | 0.010 | 0.002 | 0.002 | 0.356 | 0.052 | 0.125 | 0.248 | 0.781 |
| | | 9/8/76 | 0.035 | 0.049 | 0.157 | 0.005 | 0.011 | 0.003 | 0.260 | 0.028 | 0.060 | 0.152 | 0.500 |
| C23.1g | Gwinn | *26/11/75 | 0.045 | 0.074 | 0.226 | 0.008 | 0.005 | 0.013 | 0.371 | <0.010 | 0.166 | 0.279 | 0.826 |
| | | 9/8/76 | 0.025 | 0.033 | 0.139 | 0.005 | 0.011 | 0.003 | 0.216 | 0.018 | 0.062 | 0.130 | 0.426 |
| C23.9d | Twin No.1 | *26/11/75 | 0.055 | 0.074 | 0.218 | 0.013 | 0.003 | 0.005 | 0.368 | 0.032 | 0.146 | 0.279 | 0.825 |
| | | 9/8/76 | 0.045 | 0.049 | 0.148 | 0.005 | 0.004 | 0.004 | 0.255 | 0.062 | 0.064 | 0.152 | 0.533 |
| C23c | Baldwin | *26/11/75 | 0.050 | 0.074 | 0.222 | 0.013 | 0.004 | 0.008 | 0.371 | 0.022 | 0.104 | 0.282 | 0.779 |
| | | 9/8/76 | 0.030 | 0.041 | 0.152 | 0.008 | 0.004 | 0.005 | 0.240 | 0.024 | 0.058 | 0.149 | 0.471 |
| C23d | Twin No.2 | *26/11/75 | 0.045 | 0.074 | 0.183 | 0.013 | 0.003 | 0.005 | 0.323 | 0.038 | 0.125 | 0.217 | 0.703 |
| | | 9/8/76 | 0.045 | 0.049 | 0.152 | 0.010 | 0.004 | 0.001 | 0.261 | 0.040 | 0.062 | 0.164 | 0.527 |
| C24a | Burton | *25/11/75 | 0.055 | 0.074 | 0.213 | 0.013 | 0.003 | 0.006 | 0.364 | 0.022 | 0.079 | 0.271 | 0.736 |
| | | 9/8/76 | 0.050 | 0.041 | 0.165 | 0.008 | 0.007 | 0.000 | 0.271 | 0.046 | 0.067 | 0.161 | 0.545 |
| C24g | Glasgow | *25/11/75 | 0.020 | 0.041 | 0.152 | 0.008 | 0.003 | 0.010 | 0.234 | 0.016 | 0.125 | 0.172 | 0.547 |
| | | 9/8/76 | 0.025 | 0.033 | 0.139 | 0.003 | 0.014 | 0.006 | 0.220 | 0.012 | 0.046 | 0.147 | 0.425 |
| C25.2.1a | Paquette | *25/11/75 | 0.230 | 0.082 | 0.296 | 0.174 | 0.001 | 0.000 | 0.783 | 0.212 | 0.250 | 0.367 | 1.612 |
| | | 9/8/76 | 0.324 | 0.055 | 0.213 | 0.003 | 0.013 | 0.000 | 0.608 | 0.352 | 0.042 | 0.178 | 1.180 |

continued

Table 68, continued.

| Drainage Reference | Name | Date | meq/l | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $Ca^{++}$ | $Mg^{++}$ | $Na^{+}$ | $K^{+}$ | Fe | $H^{+}$ | Total Cations | $HCO_3^{-}$ | $SO_4^{=}$ | $Cl^{-}$ | Total Ions |
| C33.3b | Mica Hill | *25/11/75 | 0.070 | 0.082 | 0.305 | 0.087 | 0.003 | 0.016 | 0.563 | <0.010 | 0.250 | 0.409 | 1.232 |
| | | 8/10/76 | 0.070 | 0.066 | 0.252 | 0.015 | 0.007 | 0.006 | 0.417 | 0.032 | 0.085 | 0.237 | 0.771 |
| C33b | Round | *27/11/75 | 0.045 | 0.074 | 0.222 | 0.010 | 0.004 | 0.016 | 0.371 | 0.018 | 0.166 | 0.282 | 0.837 |
| | | 9/8/76 | 0.030 | 0.041 | 0.152 | 0.005 | 0.011 | 0.004 | 0.243 | 0.026 | 0.054 | 0.149 | 0.472 |
| C33h | Five Island No. 1 | *27/11/75 | 0.030 | 0.058 | 0.183 | 0.010 | 0.002 | 0.010 | 0.293 | 0.018 | 0.146 | 0.217 | 0.674 |
| | | 9/8/76 | 0.025 | 0.033 | 0.126 | 0.003 | 0.007 | 0.005 | 0.199 | <0.010 | 0.054 | 0.127 | 0.390 |
| C34a | Jigging Cove | 25/11/75 | 0.110 | 0.123 | 0.587 | 0.020 | 0.002 | 0.006 | 0.848 | 0.028 | 0.270 | 0.719 | 1.865 |
| | | 9/8/76 | 0.070 | 0.067 | 0.566 | 0.005 | 0.001 | 0.001 | 0.710 | 0.010 | 0.100 | 0.620 | 1.440 |
| | | 27/10/76 | 0.125 | 0.107 | 0.783 | 0.013 | 0.009 | 0.020 | 1.057 | 0.018 | 0.156 | 0.818 | 2.049 |
| C36.1.2a | Broad Cove Mountain | *25/11/75 | 0.040 | 0.049 | 0.204 | 0.015 | <0.001 | 0.001 | 0.310 | 0.036 | 0.125 | 0.228 | 0.699 |
| | | 9/8/76 | 0.035 | 0.035 | 0.187 | 0.005 | 0.001 | 0.001 | 0.264 | 0.024 | 0.050 | 0.169 | 0.507 |
| C36.1.3b | Brown's | *25/11/75 | 0.030 | 0.074 | 0.200 | 0.015 | 0.004 | 0.020 | 0.343 | <0.010 | 0.229 | 0.310 | 0.892 |
| | | 9/8/76 | 0.030 | 0.041 | 0.170 | 0.005 | 0.005 | 0.010 | 0.261 | 0.020 | 0.077 | 0.164 | 0.522 |
| C36.1.5a | Rudderham | *25/11/75 | 0.020 | 0.041 | 0.183 | 0.010 | 0.001 | 0.016 | 0.271 | 0.022 | 0.208 | 0.214 | 0.715 |
| | | 9/8/76 | 0.025 | 0.041 | 0.152 | 0.005 | 0.004 | 0.013 | 0.240 | <0.010 | 0.062 | 0.155 | 0.467 |
| C36.1b | Branch Pond | *25/11/75 | 0.025 | 0.049 | 0.196 | 0.013 | 0.003 | 0.020 | 0.306 | <0.010 | 0.208 | 0.276 | 0.800 |
| | | 9/8/76 | 0.030 | 0.041 | 0.152 | 0.005 | 0.005 | 0.001 | 0.234 | 0.026 | 0.064 | 0.141 | 0.465 |
| C36.13a | Sunday | *26/11/75 | 0.070 | 0.099 | 0.283 | 0.010 | 0.004 | 0.013 | 0.479 | 0.022 | 0.270 | 0.367 | 1.138 |
| | | 9/8/76 | 0.060 | 0.058 | 0.200 | 0.010 | 0.009 | 0.003 | 0.340 | 0.060 | 0.062 | 0.189 | 0.651 |
| C38a | Warren | 25/11/75 | 0.055 | 0.049 | 0.174 | 0.010 | 0.003 | 0.002 | 0.293 | 0.038 | 0.083 | 0.195 | 0.609 |
| | | 9/8/76 | 0.065 | 0.062 | 0.165 | 0.005 | 0.004 | 0.000 | 0.301 | 0.108 | 0.060 | 0.164 | 0.633 |
| C38a3a | Cradle | 25/11/75 | 0.030 | 0.049 | 0.165 | 0.010 | <0.001 | 0.002 | 0.257 | 0.042 | 0.125 | 0.175 | 0.599 |
| | | 9/8/76 | 0.045 | 0.051 | 0.165 | 0.008 | 0.001 | 0.001 | 0.271 | 0.072 | 0.060 | 0.166 | 0.569 |
| C38.4a | Spud | *26/11/75 | 0.030 | 0.066 | 0.218 | 0.008 | 0.002 | 0.020 | 0.344 | <0.010 | 0.250 | 0.256 | 0.869 |
| | | 9/8/76 | 0.025 | 0.037 | 0.148 | 0.003 | 0.004 | 0.006 | 0.223 | 0.012 | 0.067 | 0.135 | 0.437 |

continued

Table 68, continued.

| Drainage Reference | Name | Date | meq/l | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $Ca^{++}$ | $Mg^{++}$ | $Na^{+}$ | $K^{+}$ | Fe | $H^{+}$ | Total Cations | $HCO_3^{-}$ | $SO_4^{=}$ | $Cl^{-}$ | Total Ions |
| C38b | Lake of Islands | * 27/11/75 | 0.055 | 0.099 | 0.265 | 0.010 | 0.004 | 0.020 | 0.453 | 0.008 | 0.166 | 0.352 | 0.979 |
| | | 9/8/76 | 0.025 | 0.049 | 0.170 | 0.005 | 0.005 | 0.008 | 0.262 | 0.016 | 0.079 | 0.155 | 0.512 |
| C41.4a | Long Pond | 27/11/75 | 0.085 | 0.074 | 0.170 | 0.020 | 0.000 | 0.001 | 0.350 | 0.096 | 0.062 | 0.217 | 0.725 |
| | | 9/8/76 | 0.095 | 0.074 | 0.187 | 0.010 | 0.004 | 0.000 | 0.370 | 0.152 | 0.062 | 0.175 | 0.759 |
| C41.5c | Roper | * 26/11/75 | 0.025 | 0.058 | 0.165 | 0.005 | 0.005 | 0.010 | 0.268 | 0.036 | 0.166 | 0.186 | 0.656 |
| | | 9/8/76 | 0.025 | 0.035 | 0.126 | 0.010 | 0.009 | 0.003 | 0.208 | 0.022 | 0.058 | 0.125 | 0.412 |
| C41c | Dundas No. 3 | * 26/11/75 | 0.050 | 0.082 | 0.244 | 0.013 | 0.004 | 0.020 | 0.413 | 0.016 | 0.250 | 0.324 | 1.003 |
| | | 9/8/76 | 0.030 | 0.033 | 0.152 | 0.008 | 0.005 | 0.010 | 0.238 | 0.024 | 0.064 | 0.141 | 0.467 |
| C41d10a | Dundas No. 5 | * 26/11/75 | 0.045 | 0.082 | 0.248 | 0.010 | 0.003 | 0.020 | 0.408 | <0.010 | 0.291 | 0.324 | 1.033 |
| | | 9/8/76 | 0.030 | 0.041 | 0.152 | 0.008 | 0.005 | 0.005 | 0.241 | 0.020 | 0.067 | 0.144 | 0.472 |
| C42b | Cann's | 9/8/76 | 0.040 | 0.049 | 0.148 | 0.005 | 0.001 | 0.001 | 0.244 | 0.026 | 0.062 | 0.144 | 0.476 |
| C43a | MacDougall's | 9/8/76 | 0.055 | 0.056 | 0.157 | 0.008 | 0.001 | 0.001 | 0.278 | 0.072 | 0.058 | 0.149 | 0.557 |
| C44.6.1d | Gull | * 26/11/75 | 0.040 | 0.066 | 0.187 | 0.010 | 0.004 | 0.016 | 0.323 | <0.010 | 0.166 | 0.242 | 0.741 |
| | | 9/8/76 | 0.025 | 0.033 | 0.126 | 0.005 | 0.005 | 0.003 | 0.197 | 0.012 | 0.060 | 0.118 | 0.387 |
| C44.8a | Two Island | * 25/11/75 | 0.020 | 0.049 | 0.174 | 0.010 | 0.006 | 0.010 | 0.269 | 0.020 | 0.062 | 0.197 | 0.548 |
| | | 9/8/76 | 0.025 | 0.025 | 0.109 | 0.003 | 0.012 | 0.002 | 0.175 | 0.038 | 0.029 | 0.107 | 0.350 |
| C44.9.1.2a | Indian | * 25/11/75 | 0.030 | 0.041 | 0.178 | 0.013 | 0.002 | 0.002 | .266 | 0.014 | 0.125 | 0.206 | 0.611 |
| | | 9/8/76 | 0.035 | 0.031 | 0.122 | 0.008 | 0.004 | 0.003 | 0.203 | 0.072 | 0.029 | 0.110 | 0.414 |
| C44a | White Hill | * 26/11/75 | 0.030 | 0.074 | 0.209 | 0.010 | 0.004 | 0.016 | 0.343 | <0.010 | 0.146 | 0.265 | 0.764 |
| | | 9/8/76 | 0.025 | 0.031 | 0.126 | 0.005 | 0.012 | 0.020 | 0.220 | 0.028 | 0.044 | 0.116 | 0.407 |
| C45a | Freshwater | 27/11/75 | 0.549 | 0.164 | 0.696 | 0.031 | <0.001 | 0.000 | 1.440 | 0.082 | 0.478 | 0.818 | 2.819 |
| | | 10/8/76 | 0.549 | 0.148 | 0.848 | 0.018 | 0.001 | 0.000 | 1.564 | 0.248 | 0.376 | 0.790 | 2.978 |
| W19.3a | Sugar Brook No. 2 | 9/8/76 | 0.070 | 0.058 | 0.231 | 0.008 | 0.001 | 0.003 | 0.371 | 0.054 | 0.079 | 0.243 | 0.747 |
| W19.4(9)a | MacIntosh | * 27/11/75 | 0.090 | 0.074 | 0.261 | 0.015 | 0.002 | 0.001 | 0.443 | 0.172 | 0.166 | 0.296 | 1.077 |
| | | 9/8/76 | 0.105 | 0.058 | 0.209 | 0.013 | 0.004 | 0.001 | 0.390 | 0.086 | 0.075 | 0.200 | 0.751 |

continued

Table 68, continued.

| Drainage Reference | Name | | Date | meq/l | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $Ca^{++}$ | $Mg^{++}$ | $Na^{+}$ | $K^{+}$ | Fe | $H^{+}$ | Total Cations | $HCO_3^{-}$ | $SO_4^{=}$ | $Cl^{-}$ | Total Ions |
| W22.2a | Benjie's | | 25/10/76 | 0.050 | 0.072 | 0.209 | 0.010 | 0.004 | 0.003 | 0.347 | 0.040 | 0.062 | 0.248 | 0.698 |
| W24.8.1a | Bog Exhibit Pond | | 9/8/76 | 0.649 | 0.189 | 0.204 | 0.010 | 0.018 | 0.000 | 1.070 | 0.793 | 0.050 | 0.183 | 2.096 |
| W24.8.1c | Bog South Pond | | 11/8/76 | 0.025 | 0.041 | 0.135 | <0.003 | 0.005 | 0.100 | 0.309 | 0.000 | 0.102 | 0.127 | 0.538 |
| W24a | Fishing Cove | | 25/10/76 | 0.055 | 0.074 | 0.178 | 0.015 | 0.007 | 0.006 | 0.336 | <0.010 | 0.073 | 0.248 | 0.667 |
| W30.6a | French | * | 27/11/75 | 0.100 | 0.082 | 0.396 | 0.015 | 0.003 | 0.002 | 0.598 | 0.042 | 0.166 | 0.409 | 1.215 |
| | | | 11/8/76 | 0.080 | 0.082 | 0.335 | 0.005 | 0.004 | 0.006 | 0.512 | 0.044 | 0.098 | 0.395 | 1.049 |
| W30b | Corney | * | 27/11/75 | 0.070 | 0.099 | 0.300 | 0.015 | 0.005 | 0.008 | 0.497 | 0.028 | 0.125 | 0.352 | 1.002 |
| | | | 10/8/76 | 0.075 | 0.099 | 0.196 | 0.008 | 0.025 | 0.001 | 0.404 | 0.098 | 0.100 | 0.161 | 0.763 |
| W32a | Little Presqu'ile | * | 27/11/75 | 1.497 | 0.403 | 1.479 | 0.056 | 0.003 | <0.001 | 3.438 | 1.132 | 0.354 | 1.946 | 6.870 |
| W32b | Presqu'ile | * | 27/11/75 | 1.297 | 0.370 | 1.392 | 0.056 | <0.001 | <0.001 | 3.116 | 1.152 | 0.354 | 1.664 | 6.286 |
| | | | 11/8/76 | 1.198 | 0.329 | 1.240 | 0.031 | 0.001 | 0.000 | 2.799 | 0.999 | 0.291 | 1.495 | 5.584 |
| W34.3.3c | Lac des Plees Ferrees No. 3 | | 10/8/76 | 0.070 | 0.051 | 0.191 | 0.010 | 0.018 | 0.002 | 0.342 | 0.058 | 0.100 | 0.172 | 0.672 |
| W34.32.1a | Cranberry | * | 25/11/75 | 0.025 | 0.058 | 0.187 | 0.008 | 0.004 | 0.016 | 0.298 | <0.010 | 0.104 | 0.231 | 0.643 |
| | | | 9/8/76 | 0.020 | 0.031 | 0.113 | 0.005 | 0.004 | 0.032 | 0.205 | <0.010 | 0.064 | 0.113 | 0.392 |

* Sampled under ice.

Table 69 . Order of dominance of major cations and anions based on equivalent percentage concentrations in surface waters of 47 lakes collected during aerial surveys of Cape Breton Highlands National Park.

| Drainage Reference | Name | Date | Ionic Order of Dominance | |
|---|---|---|---|---|
| | | | Cations | Anions |
| C22.13.4b | Bear No. 1 | *26/11/75 | Na > Mg > Ca > K > H > Fe | Cl > $SO_4$ > $HCO_3$ |
| | | 9/8/76 | Na > Mg > Ca > K > Fe > H | Cl > $SO_4$ > $HCO_3$ |
| C22.13d | Deer | *26/11/75 | Na > Ca > Mg > K > H > Fe | Cl > $SO_4$ > $HCO_3$ |
| | | 9/8/76 | Na > Ca > Mg > K > Fe > H | Cl > $HCO_3$ > $SO_4$ |
| C23.1.3e | Chain No.4 | *27/11/75 | Na > Mg > Ca > K > H > Fe | Cl > $SO_4$ > $HCO_3$ |
| | | 9/8/76 | Na > Mg > Ca > Fe > K = H | Cl > $SO_4$ > $HCO_3$ |
| C23.1d5a | John Dee | *25/11/75 | Na > Mg > Ca > K > H = Fe | Cl > $SO_4$ > $HCO_3$ |
| | | 9/8/76 | Na > Ca > Mg > Fe > K > H | Cl > $HCO_3$ > $SO_4$ |
| C23.1f8a | Roundhill No. 1 | *26/11/75 | Na > Mg > Ca > K > H = Fe | Cl > $SO_4$ > $HCO_3$ |
| | | 9/8/76 | Na > Mg > Ca > Fe > K > H | Cl > $SO_4$ > $HCO_3$ |
| C23.1g | Gwinn | *26/11/75 | Na > Mg > Ca > H > K > Fe | Cl > $SO_4$ > $HCO_3$ |
| | | 9/8/76 | Na > Mg > Ca > Fe > K > H | Cl > $SO_4$ > $HCO_3$ |
| C23.9d | Twin No.1 | *26/11/75 | Na > Mg > Ca > K > H > Fe | Cl > $SO_4$ > $HCO_3$ |
| | | 9/8/76 | Na > Mg > Ca > K > Fe > H | Cl > $SO_4$ > $HCO_3$ |
| C23c | Baldwin | *26/11/75 | Na > Mg > Ca > K > H > Fe | Cl > $SO_4$ > $HCO_3$ |
| | | 9/8/76 | Na > Mg > Ca > K > H > Fe | Cl > $SO_4$ > $HCO_3$ |
| C23d | Twin No.2 | *26/11/75 | Na > Mg > Ca > K > H > Fe | Cl > $SO_4$ > $HCO_3$ |
| | | 9/8/76 | Na > Mg > Ca > K > Fe > H | Cl > $SO_4$ > $HCO_3$ |
| C24a | Burton | *25/11/75 | Na > Mg > Ca > K > H > Fe | Cl > $SO_4$ > $HCO_3$ |
| | | 9/8/76 | Na > Ca > Mg > K > Fe > H | Cl > $SO_4$ > $HCO_3$ |
| C24g | Glasgow | *25/11/75 | Na > Mg > Ca > H > K > Fe | Cl > $SO_4$ > $HCO_3$ |
| | | 9/8/76 | Na > Mg > Ca > Fe > H > K | Cl > $SO_4$ > $HCO_3$ |
| C25.2.1a | Paquette | *25/11/75 | Na > Ca > K > Mg > Fe > H | Cl > $SO_4$ > $HCO_3$ |
| | | 9/8/76 | Ca > Na > Mg > Fe > K > H | $HCO_3$ > Cl > $SO_4$ |

continued

Table 69, continued.

| Drainage Reference | Name | | Date | Ionic Order of Dominance: Cations | Ionic Order of Dominance: Anions |
|---|---|---|---|---|---|
| C33.3b | Mica Hill | * | 25/11/75 | Na > K > Mg > Ca > H ≥ Fe | Cl > $SO_4$ > $HCO_3$ |
| | | | 8/10/76 | Na > Ca > Mg > K > Fe ≥ H | Cl > $SO_4$ > $HCO_3$ |
| C33b | Round | * | 27/11/75 | Na > Mg > Ca > H > K > Fe | Cl > $SO_4$ > $HCO_3$ |
| | | | 9/8/76 | Na > Mg > Ca > Fe > K > H | Cl > $SO_4$ > $HCO_3$ |
| C33h | Five Island No. 1 | * | 27/11/75 | Na > Mg > Ca > K ≥ H > Fe | Cl > $SO_4$ > $HCO_3$ |
| | | | 9/8/76 | Na > Mg > Ca > Fe > H > K | Cl > $SO_4$ > $HCO_3$ |
| C34a | Jigging Cove | | 25/11/75 | Na > Mg > Ca > K > H > Fe | Cl > $SO_4$ > $HCO_3$ |
| | | | 9/8/76 | Na > Ca > Mg > K > Fe = H | Cl > $SO_4$ > $HCO_3$ |
| | | | 27/10/76 | Na > Ca > Mg > H > K > Fe | Cl > $SO_4$ > $HCO_3$ |
| C36.1.2a | Broad Cove Mountain | * | 25/11/75 | Na > Mg > Ca > K > H > Fe | Cl > $SO_4$ > $HCO_3$ |
| | | | 9/8/76 | Na > Mg = Ca > K > Fe = H | Cl > $SO_4$ > $HCO_3$ |
| C36.1.3b | Brown's | * | 25/11/75 | Na > Mg > Ca > H > K > Fe | Cl > $SO_4$ > $HCO_3$ |
| | | | 9/8/76 | Na > Mg > Ca > H > K = Fe | Cl > $SO_4$ > $HCO_3$ |
| C36.1.5a | Rudderham | * | 25/11/75 | Na > Mg > Ca > H > K > Fe | Cl > $SO_4$ > $HCO_3$ |
| | | | 9/8/76 | Na > Mg > Ca > H > K > Fe | Cl > $SO_4$ > $HCO_3$ |
| C36.1b | Branch Pond | * | 25/11/75 | Na > Mg > Ca > H > K > Fe | Cl > $SO_4$ > $HCO_3$ |
| | | | 9/8/76 | Na > Mg > Ca > K = Fe > H | Cl > $SO_4$ > $HCO_3$ |
| C36.13a | Sunday | * | 26/11/75 | Na > Mg > Ca > H > K > Fe | Cl > $SO_4$ > $HCO_3$ |
| | | | 9/8/76 | Na > Ca > Mg > K > Fe > H | Cl > $SO_4$ > $HCO_3$ |
| C38a | Warren | | 25/11/75 | Na > Mg > Ca > K > H > Fe | Cl > $SO_4$ > $HCO_3$ |
| | | | 9/8/76 | Na > Ca > Mg > K > Fe > H | Cl > $HCO_3$ > $SO_4$ |
| C38a3a | Cradle | | 25/11/75 | Na > Mg > Ca > K > H > Fe | Cl > $SO_4$ > $HCO_3$ |
| | | | 9/8/76 | Na > Mg > Ca > K > Fe = H | Cl > $HCO_3$ > $SO_4$ |
| C38.4a | Spud | * | 26/11/75 | Na > Mg > Ca > H > K > FE | Cl > $SO_4$ > $HCO_3$ |
| | | | 9/8/76 | Na > Mg > Ca > H > Fe > K | Cl > $SO_4$ > $HCO_3$ |

continued

Table 69, continued.

| Drainage Reference | Name | Date | Ionic order of Dominance: Cations | Anions |
|---|---|---|---|---|
| C38b | Lake of Islands | * 27/11/75 | Na > Mg > Ca > H > K > Fe | Cl > $SO_4$ > $HCO_3$ |
| | | 9/8/76 | Na > Mg > Ca > H > K = Fe | Cl > $SO_4$ > $HCO_3$ |
| C41.4a | Long Pond | 27/11/75 | Na > Ca > Mg > K > H > Fe | Cl > $HCO_3$ > $SO_4$ |
| | | 9/8/76 | Na > Ca > Mg > K > Fe > H | Cl > $HCO_3$ > $SO_4$ |
| C41.5c | Roper | * 26/11/75 | Na > Mg > Ca > H > K > Fe | Cl > $SO_4$ > $HCO_3$ |
| | | 9/8/76 | Na > Mg > Ca > K > Fe > H | Cl > $SO_4$ > $HCO_3$ |
| C41c | Dundas No. 3 | * 26/11/75 | Na > Mg > Ca > H > K > Fe | Cl > $SO_4$ > $HCO_3$ |
| | | 9/8/76 | Na > Mg > Ca > H > K > Fe | Cl > $SO_4$ > $HCO_3$ |
| C41d10a | Dundas No. 5 | * 26/11/75 | Na > Mg > Ca > H > K > Fe | Cl > $SO_4$ > $HCO_3$ |
| | | 9/8/76 | Na > Mg > Ca > K > Fe = H | Cl > $SO_4$ > $HCO_3$ |
| C42b | Cann's | 9/8/76 | Na > Mg > Ca > K > Fe = H | Cl > $SO_4$ > $HCO_3$ |
| C43a | MacDougall's | 9/8/76 | Na > Mg > Ca > K > Fe = H | Cl > $HCO_3$ > $SO_4$ |
| C44.6.1d | Gull | * 26/11/75 | Na > Mg > Ca > H > K > Fe | Cl > $SO_4$ > $HCO_3$ |
| | | 9/8/76 | Na > Mg > Ca > K = Fe > H | Cl > $SO_4$ > $HCO_3$ |
| C44.8a | Two Island | * 25/11/75 | Na > Mg > Ca > K > H > Fe | Cl > $SO_4$ > $HCO_3$ |
| | | 9/8/76 | Na > Ca > Mg > Fe > K > H | Cl > $HCO_3$ > $SO_4$ |
| C44.9.1.2a | Indian | * 25/11/75 | Na > Mg > Ca > K > H > Fe | Cl > $SO_4$ > $HCO_3$ |
| | | 9/8/76 | Na > Ca > Mg > K > Fe > H | Cl > $HCO_3$ > $SO_4$ |
| C44a | White Hill | * 26/11/75 | Na > Mg > Ca > H > K > Fe | Cl > $SO_4$ > $HCO_3$ |
| | | 9/8/76 | Na > Mg > Ca > H > Fe > K | Cl > $SO_4$ > $HCO_3$ |
| C45a | Freshwater | 27/11/75 | Na > Ca > Mg > K > Fe > H | Cl > $SO_4$ > $HCO_3$ |
| | | 10/8/76 | Na > Ca > Mg > K > Fe > H | Cl > $SO_4$ > $HCO_3$ |
| W19.3a | Sugar Brook No. 2 | 9/8/76 | Na > Ca > Mg > K > H > Fe | Cl > $SO_4$ > $HCO_3$ |
| W19.4(9)a | MacIntosh | * 27/11/75 | Na > Ca > Mg > K > Fe > H | Cl > $HCO_3$ > $SO_4$ |
| | | 9/8/76 | Na > Ca > Mg > K > Fe > H | Cl > $HCO_3$ > $SO_4$ |

continued

Table 69, continued

| Drainage Reference | Name | Date | Ionic Order of Dominance: Cations | Ionic Order of Dominance: Anions |
|---|---|---|---|---|
| W22.2a | Benjie's | 25/10/76 | Na > Mg > Ca > K > F > H | Cl > $SO_4$ > $HCO_3$ |
| W24.8.1a | Bog Exhibit Pond | 9/8/76 | Ca > Na > Mg > Fe > K | $HCO_3$ > Cl > $SO_4$ |
| W24.8.1c | Bog South Pond | 11/8/76 | Na > H > Mg > Ca > Fe > K | Cl > $SO_4$ > $HCO_3$ |
| W24a | Fishing Cove | 25/10/76 | Na > Mg > Ca > K > Fe > H | Cl > $SO_4$ > $HCO_3$ |
| W30.6a | French | *27/11/75 | Na > Ca > Mg > K > Fe > H | Cl > $SO_4$ > $HCO_3$ |
| | | 11/8/76 | Na > Mg > Ca > H > K > Fe | Cl > $SO_4$ > $HCO_3$ |
| W30b | Corney | *27/11/75 | Na > Mg > Ca > K > H > Fe | Cl > $SO_4$ > $HCO_3$ |
| | | 10/8/76 | Na > Mg > Ca > Fe > K > H | Cl > $SO_4$ > $HCO_3$ |
| W32a | Little Presqu'ile | *27/11/75 | Ca > Na > Mg > K > Fe > H | Cl > $HCO_3$ > $SO_4$ |
| W32b | Presqu'ile | *27/11/75 | Na > Ca > Mg > K > Fe > H | Cl > $HCO_3$ > $SO_4$ |
| | | 11/8/76 | Na > Ca > Mg > K > Fe > H | Cl > $HCO_3$ > $SO_4$ |
| W34.3.3c | Lac des Plees Ferrees No. 3 | 10/8/76 | Na > Ca > Mg > Fe > K > H | Cl > $SO_4$ > $HCO_3$ |
| W34.32.1a | Cranberry | *26/11/75 | Na > Mg > Ca > H > K > Fe | Cl > $SO_4$ > $HCO_3$ |
| | | 9/8/76 | Na > H > Mg > Ca > K > Fe | Cl > $SO_4$ > $HCO_3$ |

* Sampled under ice.

Table 70 . Concentrations of manganese, lead, mercury, Kjeldahl nitrogen, nitrate-nitrite nitrogen and total organic carbon in surface waters of 47 lakes collected during aerial surveys of Cape Breton Highlands National Park.

| Drainage Reference | Name | Date | mg/l | | $mg/m^3$ | mg N/l | | mg C/l |
|---|---|---|---|---|---|---|---|---|
| | | | Mn | Pb | Hg | Kjeldahl | $NO_2$-$NO_3$ | Total Org. Carbon |
| C22.13.4b | Bear No. 1 | * 26/11/75 | 0.02 | 0.004 | <0.05 | <0.1 | 0.04 | 9.5 |
| | | 9/8/76 | 0.02 | 0.020 | 0.35 | | <0.01 | 8.5 |
| C22.13d | Deer | * 26/11/75 | 0.02 | 0.007 | <0.05 | <0.1 | 0.04 | 8.7 |
| | | 9/8/76 | 0.02 | 0.020 | 0.35 | | <0.01 | 6.9 |
| C23.1.3e | Chain No.4 | * 27/11/75 | 0.01 | 0.007 | <0.05 | <0.1 | 0.05 | 12.0 |
| | | 9/8/76 | <0.01 | 0.010 | 0.14 | | <0.01 | 7.0 |
| C23.1d5a | John Dee | * 25/11/75 | 0.05 | 0.004 | <0.05 | <0.1 | 0.05 | 13.7 |
| | | 9/8/76 | 0.04 | 0.013 | <0.05 | | <0.01 | 9.9 |
| C23.1f8a | Roundhill No. 1 | * 26/11/75 | 0.02 | 0.008 | <0.05 | <0.1 | 0.08 | 9.5 |
| | | 9/8/76 | 0.02 | 0.010 | 0.29 | | <0.01 | 5.9 |
| C23.1g | Gwinn | * 26/11/75 | 0.06 | 0.007 | <0.05 | 0.1 | 0.05 | 11.7 |
| | | 9/8/76 | 0.02 | 0.020 | 0.14 | | <0.01 | 7.8 |
| C23.9d | Twin No.1 | * 26/11/75 | 0.03 | 0.008 | <0.05 | 0.8 | 0.01 | 10.7 |
| | | 9/8/76 | 0.01 | 0.004 | <0.05 | | <0.01 | 5.0 |
| C23c | Baldwin | * 26/11/75 | 0.03 | 0.010 | <0.05 | <0.1 | 0.04 | 10.2 |
| | | 9/8/76 | 0.01 | 0.005 | <0.05 | | <0.01 | 6.6 |
| C23d | Twin No.2 | * 26/11/75 | 0.02 | 0.008 | <0.05 | <0.1 | 0.04 | 13.3 |
| | | 9/8/76 | 0.01 | 0.004 | 0.05 | | <0.01 | 5.5 |
| C24a | Burton | * 25/11/75 | 0.03 | 0.008 | <0.05 | <0.1 | 0.03 | 10.4 |
| | | 9/8/76 | 0.02 | 0.004 | 0.07 | | 0.02 | 7.4 |
| C24g | Glasgow | * 25/11/75 | 0.05 | 0.007 | <0.05 | 0.1 | 0.04 | 7.7 |
| | | 9/8/76 | 0.08 | 0.070 | 0.11 | | <0.01 | 6.8 |
| C25.2.1a | Paquette | * 25/11/75 | 0.02 | 0.008 | <0.05 | 0.1 | 0.05 | 9.2 |
| | | 9/8/76 | 0.03 | 0.020 | 0.05 | | <0.01 | 7.6 |

continued

Table 70, continued.

| Drainage Reference | Name | Date | mg/l Mn | mg/l Pb | mg/m$^3$ Hg | mg N/l Kjeldahl | mg N/l $NO_2$-$NO_3$ | mg C/l Total Org. Carbon |
|---|---|---|---|---|---|---|---|---|
| C33.3b | Mica Hill | *25/11/75 | 0.08 | 0.008 | <0.05 | 0.2 | 0.03 | 13.1 |
| | | 8/10/76 | 0.05 | <0.002 | <0.05 | 0.15 | <0.01 | 16.4 |
| C33b | Round | *27/11/75 | 0.04 | 0.005 | <0.05 | 0.2 | 0.01 | 11.1 |
| | | 9/8/76 | 0.04 | 0.009 | <0.05 | | <0.01 | 7.3 |
| C33h | Five Island | *27/11/75 | 0.02 | 0.007 | <0.05 | <0.1 | 0.06 | 6.0 |
| | No. 1 | 9/8/76 | 0.02 | 0.040 | 0.43 | | <0.01 | 4.5 |
| C34a | Jigging Cove | *25/11/75 | 0.05 | 0.008 | <0.05 | 0.2 | 0.04 | 14.6 |
| | | 9/8/76 | 0.01 | 0.006 | <0.05 | | 0.10 | 6.3 |
| | | 27/10/76 | 0.04 | <0.002 | <0.05 | 0.28 | <0.01 | 26.9 |
| C36.1.2a | Broad Cove | *25/11/75 | 0.01 | 0.001 | <0.05 | 0.2 | 0.03 | 4.4 |
| | Mountain | 9/8/76 | 0.01 | 0.006 | 0.05 | | <0.01 | 4.5 |
| C36.1.3b | Brown's | *25/11/75 | 0.04 | 0.005 | <0.05 | 0.2 | 0.04 | 15.2 |
| | | 9/8/76 | 0.02 | 0.004 | <0.05 | | 0.02 | 11.0 |
| C36.1.5a | Rudderham | *25/11/75 | 0.03 | 0.010 | <0.05 | 0.1 | 0.02 | 10.4 |
| | | 9/8/76 | 0.03 | 0.005 | <0.05 | | 0.02 | 9.1 |
| C36.1b | Branch Pond | *25/11/75 | 0.04 | 0.007 | <0.05 | <0.1 | 0.04 | 14.6 |
| | | 9/8/76 | 0.03 | 0.010 | <0.05 | | 0.32 | 9.3 |
| C36.13a | Sunday | *26/11/75 | 0.06 | 0.008 | <0.05 | 0.1 | 0.02 | 13.7 |
| | | 9/8/76 | 0.01 | 0.015 | <0.05 | | <0.01 | 13.6 |
| C38a | Warren | 25/11/75 | 0.04 | 0.005 | <0.05 | <0.1 | 0.03 | 10.4 |
| | | 9/8/76 | 0.01 | 0.009 | <0.05 | | <0.01 | 7.6 |
| C38a3a | Cradle | 25/11/75 | 0.01 | 0.007 | <0.05 | 0.1 | 0.04 | 5.7 |
| | | 9/8/76 | 0.01 | 0.006 | 0.05 | | <0.01 | 5.1 |
| C38.4a | Spud | * 26/11/75 | 0.02 | 0.008 | <0.05 | <0.1 | 0.04 | 16.0 |
| | | 9/8/76 | 0.02 | 0.006 | 0.05 | | 0.34 | 10.7 |

continued

Table 70, continued.

| Drainage Reference | Name | Date | mg/l Mn | mg/l Pb | $mg/m^3$ Hg | mg N/l Kjeldahl | mg N/l $NO_2$-$NO_3$ | mg C/l Total Org. Carbon |
|---|---|---|---|---|---|---|---|---|
| C38b | Lake of Islands | * 27/11/75 | 0.02 | 0.008 | <0.05 | <0.1 | 0.01 | 15.0 |
| | | 9/8/76 | 0.02 | 0.004 | <0.05 | | <0.01 | 10.3 |
| C41.4a | Long Pond | 27/11/75 | 0.01 | 0.001 | <0.05 | 0.1 | 0.04 | 4.5 |
| | | 9/8/76 | 0.01 | 0.004 | 0.12 | | 0.02 | 5.4 |
| C41.5c | Roper | * 26/11/75 | 0.04 | 0.010 | <0.05 | <0.1 | 0.04 | 11.3 |
| | | 9/8/76 | 0.03 | 0.009 | 0.05 | | <0.01 | 7.6 |
| C41c | Dundas No. 3 | * 26/11/75 | 0.07 | 0.005 | <0.05 | <0.1 | 0.03 | 15.2 |
| | | 9/8/76 | 0.02 | 0.005 | <0.05 | | <0.01 | 10.2 |
| C41d10a | Dundas No. 5 | * 26/11/75 | 0.06 | 0.005 | <0.05 | 0.2 | 0.03 | 14.3 |
| | | 9/8/76 | 0.02 | 0.004 | ---- | | <0.01 | 11.0 |
| C42b | Cann's | 9/8/76 | <0.01 | 0.004 | 0.06 | | <0.01 | 3.9 |
| C43a | MacDougall's | 9/8/76 | <0.01 | 0.005 | 0.27 | | <0.01 | 4.9 |
| C44.6.1d | Gull | * 26/11/75 | 0.07 | 0.008 | <0.05 | <0.1 | 0.04 | 11.8 |
| | | 9/8/76 | 0.02 | 0.005 | <0.05 | | <0.01 | 9.3 |
| C44.8a | Two Island | * 25/11/75 | 0.03 | 0.008 | <0.05 | 0.2 | 0.05 | 9.5 |
| | | 9/8/76 | 0.03 | 0.006 | 0.05 | | 0.02 | 7.7 |
| C44.9.1.2a | Indian | * 25/11/75 | 0.01 | 0.008 | <0.05 | 0.4 | 0.04 | 9.2 |
| | | 9/8/76 | 0.01 | 0.004 | 0.05 | | <0.01 | 8.2 |
| C44a | White Hill | * 26/11/75 | 0.02 | 0.007 | <0.05 | 0.2 | 0.02 | 12.8 |
| | | 9/8/76 | 0.02 | <0.002 | 0.39 | | <0.01 | 6.8 |
| C45a | Freshwater | 27/11/75 | 0.01 | 0.004 | <0.05 | <0.1 | 0.16 | 2.4 |
| | | 10/8/76 | 0.01 | 0.009 | <0.05 | | <0.01 | 4.4 |
| W19.3a | Sugar Brook No. 2 | 9/8/76 | 0.01 | 0.004 | <0.05 | | <0.01 | 4.4 |
| W19.4(9)a | MacIntosh | * 27/11/75 | 0.02 | 0.007 | <0.05 | 0.3 | 0.03 | 9.5 |
| | | 9/8/76 | 0.02 | 0.005 | <0.05 | | <0.01 | 5.8 |

continued

Table 70, continued.

| Drainage Reference | Name | | Date | mg/l Mn | mg/l Pb | $mg/m^3$ Hg | mg N/l Kjeldahl | mg N/l $NO_2$-$NO_3$ | mg C/l Total Org. Carbon |
|---|---|---|---|---|---|---|---|---|---|
| W22.2a | Benjie's | | 25/10/76 | 0.08 | <0.002 | <0.05 | 0.09 | <0.01 | 9.2 |
| W24.8.1a | Bog Exhibit Pond | | 9/8/76 | 0.50 | 0.005 | <0.05 | | <0.01 | 6.4 |
| W24.8.1c | Bog South Pond | | 11/8/76 | 0.02 | 0.010 | <0.05 | | <0.01 | 17.5 |
| W24a | Fishing Cove | | 25/10/76 | 0.06 | <0.002 | <0.05 | 0.11 | <0.01 | 12.4 |
| W30.6a | French | * | 25/11/75 | 0.06 | 0.008 | <0.05 | <0.1 | 0.07 | 9.3 |
| | | | 11/8/76 | 0.04 | 0.004 | <0.05 | | <0.01 | 6.7 |
| W30b | Corney | * | 27/11/75 | 0.08 | 0.007 | <0.05 | <0.1 | 0.08 | 8.6 |
| | | | 10/8/76 | 0.04 | 0.011 | <0.05 | | <0.01 | 5.3 |
| W32a | Little Presqu'ile | * | 27/11/75 | 0.03 | 0.007 | <0.05 | <0.1 | 0.18 | 3.4 |
| W32b | Presqu'ile | * | 27/11/75 | 0.02 | 0.008 | <0.5 | <0.1 | 0.27 | 4.8 |
| | | | 11/8/76 | 0.10 | 0.005 | --- | | <0.01 | 1.5 |
| W34.3.3c | Lac des Plees Ferrees No. 3 | | 10/8/76 | 0.10 | 0.009 | 0.05 | | 0.08 | 16.1 |
| W34.32.1a | Cranberry | * | 26/11/75 | 0.02 | 0.008 | 0.06 | 0.1 | 0.05 | 13.7 |
| | | | 9/8/76 | 0.02 | 0.009 | <0.05 | | <0.0o | 5.1 |

* Sampled under ice.

Table 71 . Selected water quality indices, total alkalinity and percent analytical error in surface waters of 47 lakes collected during aerial surveys of Cape Breton Highlands National Park.

| Drainage Reference | Name | Date | Ratio Salinity / Conduct. | Ratio Alkalinity / Salinity | Ratio Nitrogen / Phosphorus | mgCaCO$_3$/l Total Alkalinity | percent Analytical Error |
|---|---|---|---|---|---|---|---|
| C22.13.4b | Bear No. 1 | *26/11/75 | 0.486 | 0.087 | < 20.9 | 2.3 | - 5.4 |
| | | 9/8/76 | 0.484 | 0.165 | | 2.8 | 0.0 |
| C22.13d | Deer | *26/11/75 | 0.575 | 0.096 | < 14.0 | 3.0 | - 6.5 |
| | | 9/8/76 | 0.510 | 0.303 | | 5.4 | 2.2 |
| C23.1.3e | Chain No.4 | *27/11/75 | 0.626 | 0.055 | 25.9 | 1.2 | 14.0 |
| | | 9/8/76 | 0.447 | 0.106 | | 1.7 | - 1.1 |
| C23.1d5a | John Dee | *25/11/75 | 0.698 | 0.032 | < 11.8 | 0.9 | -13.5 |
| | | 9/8/76 | 0.472 | 0.173 | | 2.7 | 3.5 |
| C23.1f8a | Roundhill No. 1 | *26/11/75 | 0.534 | 0.110 | < 17.0 | 2.6 | - 8.8 |
| | | 9/8/76 | 0.469 | 0.096 | | 1.4 | 4.0 |
| C23.1g | Gwinn | *26/11/75 | < 0.516 | ~0.020 | 7.6 | 0.5 | > 10.2 |
| | | 9/8/76 | 0.472 | 0.071 | | 0.90 | 1.4 |
| C23.9d | Twin No.1 | *26/11/75 | 0.516 | 0.063 | 147. | 1.6 | -10.8 |
| | | 9/8/76 | 0.499 | 0.199 | | 3.1 | - 4.3 |
| C23c | Baldwin | *26/11/75 | 0.473 | 0.047 | < 24.1 | 1.1 | - 4.7 |
| | | 9/8/76 | 0.461 | 0.087 | | 1.2 | 1.9 |
| C23d | Twin No.2 | *26/11/75 | 0.542 | 0.089 | < 33.3 | 1.9 | - 8.1 |
| | | 9/8/76 | 0.470 | 0.129 | | 2.0 | 0.9 |
| C24a | Burton | *25/11/75 | 0.535 | 0.051 | < 16.5 | 1.1 | - 1.1 |
| | | 9/8/76 | 0.487 | 0.143 | | 2.3 | - 0.6 |
| C24g | Glasgow | *25/11/75 | 0.535 | 0.046 | 26.9 | 0.80 | - 14.4 |
| | | 9/8/76 | 0.4428 | 0.048 | | 0.60 | 3.7 |
| C25.2.1a | Paquette | *25/11/75 | 0.849 | 0.209 | 14.0 | 10.6 | - 2.9 |
| | | 9/8/76 | 0.506 | 0.561 | | 17.6 | 3.1 |

continued

Table 71, continued.

| Drainage Reference | Name | | Date | Ratio: Salinity Conduct. | Ratio: Alkalinity Salinity | Ratio: Nitrogen Phosphorus | mgCaCO3 l Total Alkalinity | percent Analytical Error |
|---|---|---|---|---|---|---|---|---|
| C33.3b | Mica Hill | * | 25/11/75 | <0.528 | ~0.013 | 39.0 | 0.5 | <- 8.6 |
| | | | 8/10/76 | 0.531 | 0.072 | | 1.60 | 8.1 |
| C33b | Round | * | 27/11/75 | 0.524 | 0.035 | 16.7 | 0.90 | - 11.4 |
| | | | 9/8/76 | 0.431 | 0.094 | | 1.3 | 3.0 |
| C33h | Five Island No. 1 | * | 27/11/75 | 0.535 | 0.047 | <16.5 | 1.0 | - 13.1 |
| | | | 9/8/76 | <0.426 | ----- | | <0.50 | ~ 2.1 |
| C34a | Jigging Cove | | 25/11/75 | 0.592 | 0.024 | 33.8 | 1.4 | - 9.1 |
| | | | 9/8/76 | 0.484 | 0.012 | | 0.50 | - 1.4 |
| | | | 27/10/76 | 0.523 | 0.015 | | 0.90 | 3.2 |
| C36.1.2a | Broad Cove Mountain | * | 25/11/75 | <0.332 | ~0.082 | 76.7 | 1.8 | >-11.3 |
| | | | 9/8/76 | 0.460 | 0.081 | | 1.2 | 4.1 |
| C36.1.3b | Brown's | * | 25/11/75 | <0.456 | ~0.017 | 34.3 | 0.5 | <-23.1 |
| | | | 9/8/76 | 0.453 | 0.065 | | 1.0 | 0.0 |
| C36.1.5a | Rudderham | * | 25/11/75 | 0.603 | 0.046 | 20.7 | 1.1 | - 24.2 |
| | | | 9/8/76 | <0.454 | ----- | | <0.50 | ~ 2.8 |
| C36.1b | Branch Pond | * | 25/11/75 | <0.487 | ~0.019 | <23.0 | 0.5 | <-23.5 |
| | | | 9/8/76 | 0.494 | 0.094 | | 1.3 | 0.6 |
| C36.13a | Sunday | * | 26/11/75 | 0.611 | 0.030 | 13.5 | 1.1 | - 15.8 |
| | | | 9/8/76 | 0.491 | 0.161 | | 3.0 | 4.5 |
| C38a | Warren | | 25/11/75 | 0.542 | 0.105 | < 26.5 | 1.9 | - 3.8 |
| | | | 9/8/76 | 0.532 | 0.299 | | 5.4 | - 4.9 |
| C38a3a | Cradle | | 25/11/75 | <0.596 | ~0.111 | 26.9 | 2.1 | >14.2 |
| | | | 9/8/76 | 0.526 | 0.217 | | 3.6 | - 4.7 |
| C38.4a | Spud | * | 26/11/75 | <0.525 | ~0.018 | <10.6 | 0.5 | <- 20.8 |
| | | | 9/8/76 | 0.460 | 0.046 | | 0.60 | 2.1 |

continued

Table 71, continued.

| Drainage Reference | Name | Date | Ratio: Salinity / Conduct. | Ratio: Alkalinity / Salinity | Ratio: Nitrogen / Phosphorus | mgCaCO$_3$/l Total Alkalinity | percent Analytical Error |
|---|---|---|---|---|---|---|---|
| C38b | Lake of Islands | * 27/11/75 | 0.466 | 0.014 | 7.9 | 0.4 | 7.5 |
| | | 9/8/76 | 0.445 | 0.053 | | 0.80 | 2.3 |
| C41.4a | Long Pond | 27/11/75 | 0.529 | 0.230 | 26.4 | 4.8 | 3.4 |
| | | 9/8/76 | 0.526 | 0.356 | | 7.6 | 2.5 |
| C41.5c | Roper | * 26/11/75 | 0.592 | 0.086 | < 18.2 | 1.8 | 18.3 |
| | | 9/8/76 | 0.487 | 0.089 | | 1.1 | 1.0 |
| C41c | Dundas No. 3 | * 26/11/75 | 0.543 | 0.025 | < 12.4 | 0.8 | -17.7 |
| | | 9/8/76 | 0.475 | 0.087 | | 1.2 | 1.9 |
| C41d10a | Dundas No. 5 | * 26/11/75 | < 0.570 | ~0.015 | 17.7 | 0.5 | <-21.0 |
| | | 9/8/76 | 0.480 | 0.072 | | 1.0 | 2.1 |
| C42b | Cann's | 9/8/76 | 0.434 | 0.094 | | 1.3 | 2.5 |
| C43a | MacDougall's | 9/8/76 | 0.484 | 0.226 | | 3.6 | -0.2 |
| C44.6.1d | Gull | * 26/11/75 | < 0.585 | ~0.022 | 10.9 | 0.5 | <-12.8 |
| | | 9/8/76 | 0.464 | 0.052 | | 0.60 | 1.8 |
| C44.8a | Two Island | *25/11/75 | 0.470 | 0.062 | 36.8 | 1.0 | -1.8 |
| | | 9/8/76 | 0.4805 | 0.188 | | 1.9 | 0.3 |
| C44.9.1.2a | Indian | *25/11/75 | 0.566 | 0.036 | 41.1 | 0.7 | 12.8 |
| | | 9/8/76 | 0.517 | 0.307 | | 3.6 | -1.9 |
| C44a | White Hill | * 26/11/75 | < 0.476 | ~0.021 | 14.2 | 0.5 | <-10.2 |
| | | 9/8/76 | 0.461 | 0.123 | | 1.4 | 8.0 |
| C45a | Freshwater | 27/11/75 | 0.504 | 0.048 | < 23.2 | 4.1 | 2.2 |
| | | 10/8/76 | 0.693 | 0.143 | | 12.4 | 5.0 |
| W19.3a | Sugar Brook No. 2 | 9/8/76 | 0.561 | 0.124 | | 2.7 | -0.7 |
| W19.4(9)a | MacIntosh | * 27/11/75 | 0.598 | 0.265 | 42.9 | 8.6 | -17.1 |
| | | 9/8/76 | 0.457 | 0.200 | | 4.3 | 3.9 |

continued

Table 71, continued.

| Drainage Reference | Name | | Date | Ratio Salinity / Conduct. | Ratio Alkalinity / Salinity | Ratio Nitrogen / Phosphorus | $mgCaCO_3/l$ Total Alkalinity | percent Analytical Error |
|---|---|---|---|---|---|---|---|---|
| W22.2a | Benjie's | | 25/10/76 | 0.491 | 0.099 | | 2.0 | -0.5 |
| W24.8.1a | Bog Exhibit Pond | | 9/8/76 | 0.825 | 0.739 | | 39.6 | 2.1 |
| W24.8.1c | Bog South Pond | | 11/8/76 | 0.356 | ----- | | <0.50 | 14.9 |
| W24a | Fishing Cove | | 25/10/76 | 0.494 | ----- | | <0.50 | 0.8 |
| W30.6a | French | * | 27/11/75 | 0.570 | 0.057 | <19.3 | 2.1 | -1.6 |
| | | | 11/8/76 | 0.681 | 0.072 | | 2.2 | -2.4 |
| W30b | Corney | * | 27/11/75 | 0.500 | 0.047 | <15.7 | 1.4 | -0.8 |
| | | | 10/8/76 | 0.515 | 0.226 | | 4.9 | 5.9 |
| W32a | Little Presqu'ile | * | 27/11/75 | 0.517 | 0.296 | <14.1 | 56.6 | 0.09 |
| W32b | Presqu'ile | * | 27/11/75 | >0.538 | ~0.329 | < 22.2 | 57.7 | -0.9 |
| | | | 11/8/76 | 0.516 | 0.323 | | 50. | 0.3 |
| W34.3.3c | Lac des Plees Ferrees No. 3 | | 10/8/76 | 0.499 | 0.145 | | 2.9 | 1.8 |
| W34.32.1a | Cranberry | * | 25/11/75 | >0.435 | ~0.026 | 13.9 | 0.5 | <-7.3 |
| | | | 9/8/76 | >0.445 | ----- | | <0.50 | ~4.6 |

* Sampled under ice.

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# Appendix

List of Aquatic Resources Inventory Reports, Cape Breton Highlands National Park, Nova Scotia:

Part 1. Drainage Basin, Stream and Lake Catalogue.

Part 2. Lake Drainage and Morphometry.

Part 3. Selected Limnological Measurements in 62 Lakes.

Part 4. Selected Limnological Measurements in Streams, Lake Inlets and Outlets.

Part 5. Limnological Conditions.