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## LIMNOLOGY SECTION

# CANADIAN WILDLIFE SERVICE

## MANUSCRIPT REPORTS

PRELIMINARY REPORT

Drainage Basin Catalogue for Kejimkujik National Park, Nova Scotia and a proposed Drainage, Reference Numbering System, applicable for all National Parks with reference to the National Park Aquatic Resource Inventories.



J. Kerekes
and P. Schwinghamer

April 1971

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Limnology Section

CANADIAN WILDLIFE SERVICE



Manuscript Reports



by

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and

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# Drainage Basin Catalogue for Kejimkujik National Park, Nova Scotia, and a proposed Drainage, Reference Numbering System, applicable for all National Parks with reference to the National Park Aquatic Resource Inventories.

Canadian Wildlife Service,
Halifax, N.S.

April, 1971
December, 1973 (corrected)

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# INTRODUCTION

The existence of the cycling of water on the surface of the earth is well established, thus a body of water whether it is lake, pond or stream must not be looked in isolation. More than a passing attention must be given that where the water originates and when. These questions have important bearing on the quality and the quantity of water in a given body of water which will reflect on the physical and biological characteristics of that water. Also, it is often important where the water will flow, what is its destination. Therefore, the preparation of a Drainage Systems Catalogue emerged as the first logical step in the preparation of an aquatic inventory for Kejimkujik National Park.

The Drainage System Catalogue could act as a supporting frame to keep together the inventory data. It will help to relate information obtained on one body of water to another body of water and to the surrounding land. This catalogue will provide a background and a framework for resource management and interpretive officers to make the best use of the aquatic inventory.

The purpose of this preliminary report is to provide a starting point for an aquatic resource inventory in Kejimkujik National Park and to define the problems at least in a geographical sense. In addition to that, a Drainage Reference Numbering System is proposed here which if accepted might have application for all National Parks with reference to the Aquatic Resource Inventories.

## I. PROPOSAL FOR A DRAINAGE REFERENCE NUMBERING SYSTEM

The need of recognition and appreciation of drainage systems for land use planning and land management cannot be overemphasized. Consequently, it was felt that the usefulness of a Drainage Basin Catalogue could be increased if an adequate reference numbering method is developed which would facilitate the geographic and functional orientation of individual bodies of water to the various components of adjacent water systems and improve data storage and data retrieval.

If it will be decided at a later date that the various Natural Resource Inventories will be stored by the use of a computer, the proposed Drainage Reference Numbering System could be easily adapted for computer use. In fact the water quality data obtained for 39 lakes in Kejimkujik National Park during the fall of 1970 will be analyzed with the use of a computer and the lakes in question will be identified by their drainage reference number.

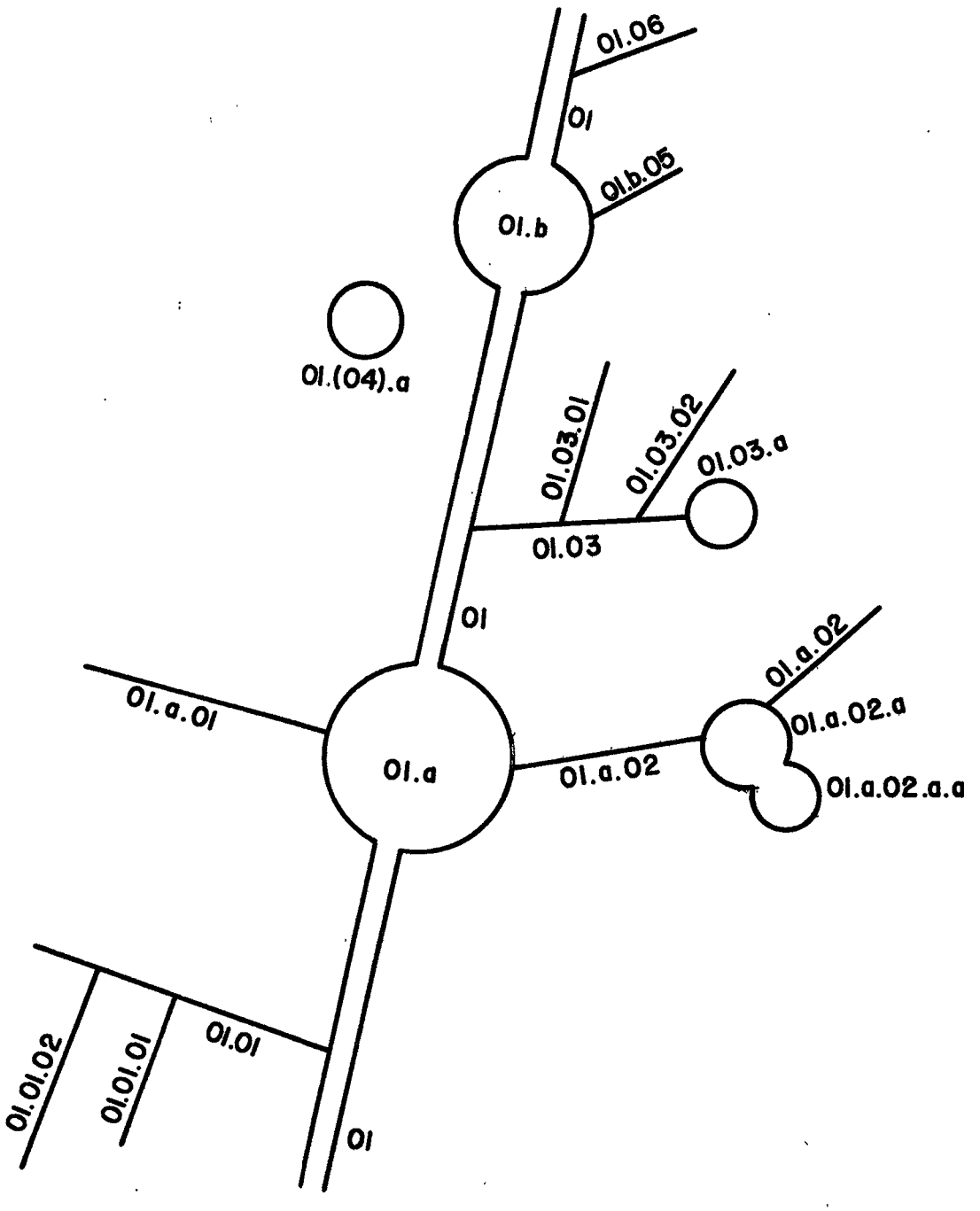
The Drainage Reference Numbering System is an attempt to provide an identification system for bodies of water in such a way that in addition to its primary function, which is identification,* the reference number would indicate the position of a body of water in relation to other water bodies. The combination of numbers and letters of the alphabet would indicate whether a given body of water is a lake or stream, and how far upstream that body of water is in relation to other bodies of water in the same drainage system. It would also indicate its relationship to other drainage systems.

The Drainage Reference Numbering System is proposed with considerable reluctance. The preparation of a useful aquatic inventory is not a simple task, it is complicated in itself. The introduction of a redundant numbering system which does not improve the usefulness of the resource inventory should be avoided. It is felt however that

* Large number of lakes and streams (which have no name) exist in most national parks.

the proposed Drainage Reference Numbering System could serve some useful functions as it was pointed out above. It is likely that it could be simplified or otherwise improved. Therefore comments and suggestions regarding its usefulness are invited preferable not later than August 1971. Comments and suggestions prior to that date will enable us to prepare a more useful report on the aquatic resources of Kejimkujik National Park during the fall of 1971.

FIGURE 1 - Diagram showing the application of the proposed Drainage Reference Numbering System. Explanation on Page 5.



## II. RULES OF THE DRAINAGE REFERENCE NUMBERING SYSTEM

The diagram shown in Figure 1 illustrates the application of the Drainage Reference Numbering System.

1. Lakes and streams in the park are given numbers which signify their position within a drainage system. This number consists of series of digit pairs and individual lower case letters separated by points or commas:

   e.g. 01.a.02.05.b
   or 02.01.c.13

   Separate drainage systems are numbered clockwise along the park boundary, counting the mouth of the stream when it enters the sea, or when it crosses the park boundary, e.g., 01,02,03. The numbering should originate at the most northerly point in the park, but it may start at another point if it gives a more logical numbering sequence, depending on the particular geography of the park.

2. The main stream of each drainage system is signified by the first (left) digit pair in the numbers of all waters within that system, e.g., all waters draining into the Mersey River have a number beginning with 01.

3. Streams are signified by digit pairs. Lakes are signified by lower case letters.

4. The numbering and lettering starts at the farthest downstream point of the main stream within the park and works upward and outward along the main stream and its tributaries: e.g., the first tributary of the main stream (01) is 01.01, the second 01.02, etc. The first lake on the main stream is 01.a, the second 01.b, etc. The stream entering the first tributary nearest its mouth would then be 01.01.01; a lake on this stream would be 01.01.01.a. A stream entering the first lake on the main stream would be 01.a.01, etc.

5. Tributaries entering lakes are numbered clockwise starting to the left of the outflow. Exceptions are: if the main inflow is named the same as the outflow, or inflow and it is not named, or if neither outflow nor the main inflow are named. In these cases the main inflow is numbered the same as the outflow; e.g., the Mersey River above and below Kejimkujik Lake is designated 01. The West River is designated 01.c.08 because it is the eighth tributary entering the Mersey River within the park and it enters through Kejimkujik Lake (01.c) which is the third lake (a,b,c) in the system within the park.

6. Upstream from a lake, tributaries entering the main stream are numbered as in (4) continuing from the number of the tributary entering the lake immediately to the right of the outflow, i.e., the highest number tributary entering the lake. Since these tributaries enter the main stream directly, the letter signifying the lake is not present in their numbers; e.g., Snake Lake southern outflow is 01.c.16, but the first stream entering the main stream above lake c is 01.17.

7. Where a lake has no known outflowing stream, it is given an imaginary one which fits in the sequence of tributaries of the stream into which the lake drains. The number given this stream preceeds the letter of the lake, as usual, but is enclosed in brackets: e.g., Lake 7 is 01.c.11.(06).a.

8. If a lake has two distinct basins with the main inflow and the outflow both in one basin, the other basin is signified by a letter directly following the letter signifying the major basin: e.g.,
Big Dam West 01.c.11.c
Big Dam East 01.c.11.c.a

9. All positions to the right of the last written digit pair or letter are considered insignificant zero pairs, and for writing purposes these numbers could be shortened to 1, 1.1, 1.a, 1.a.2.a, from 01, 01.01, 01.a, 01.a.02.a and so on.

Note:

In Kejimkujik National Park the Peskowesk Drainage System is considered part of the Mersey Drainage System because it enters the Mersey very soon after it leaves the park. The various streams draining into the Shelburne River all begin with 02 for the same reason and also to clearly differentiate them from the Mersey Drainage System including Peskowesk Brook.

## III. DRAINAGE BASIN CATALOGUE

Figure 2 depicts the significant drainage basins, Table I gives an alphabetical listing of lakes and Table II the same for streams in Kejimkujik National Park. In addition to its name, each body of water is identified by a drainage reference number and by a military grid reference. There are 46 lakes and ponds in the park, 13 of them are unnamed. The smallest of the unnamed lakes (No.45) has a surface area of 0.5 acres. Big Dam Lake consists of two well defined, distinct basins therefore each basin is recognized as a separate lake (Big Dam (East) and Big Dam (West)).

For the purpose of this Drainage Basin Catalogue, a stream was recognized if it was shown on the topographic maps (scale 1:50.000) covering the park area. Some of these streams may be temporary ones that are not carrying water during prolonged dry periods. On the other hand, some small permanent streams might be in existence which were not shown on these maps. These may be added to the list when discovered and identified. Of the 72 streams shown on the maps and listed in Table II, 25 have official names and 47 are without names. In the Stream Catalogue, 12 of these unnamed streams were tentatively named, usually after a lake from which they originated. The unofficial status of these names is signified by the use of quotation marks.

Basic data describing the drainage basins in Kejimkujik National Park is given in Table III. The drainage basins are listed in the sequence of their drainage reference number, but the name of the drainage basin is also given. The total drainage area for each basin is listed also. If the drainage basin extends outside the park boundaries, than the total drainage area is given in brackets and the drainage area within the park boundary is listed without brackets.

The drainage boundaries were determined from maps and air photographs. In some places where the land was flat they might have been drawn contrary to existing conditions. It is hoped that these instances will be corrected when more ground observations will be available. The Warden Service and other Park personnel could provide valuable assistance in this area. The approximate relief of the drainage basins (in feet) obtained from the same topographic maps is also given.

For lake drainage basins, the area and the elevation of the principal lake is presented in addition to the basic drainage basin data whenever this information is available. Lake surface areas were determined by planimetry from air photographs and they will be provided for all lakes in the final report.

Table 1.
Alphabetical listing of 46 lakes in Kejimkujik National Park. Unnamed lakes are at the end of list. Drainage reference, military grid reference numbers and geographic positions are given. Numbers beside lake names refer to map key.

| Lake | No. | Drainage Reference | Military Grid Ref. | Latitude | Longitude |
|---|---|---|---|---|---|
| Back | 39 | 02.01.a | 190070 | 44°18' | 65°18' |
| Beaverskin | 37 | 02.02.a | 140085 | 44°18' | 65°20' |
| Ben | 26 | 01.c.08.06.b | 140127 | 44°21' | 65°20' |
| Big Dam (East) | 4 | 01.c.11.c.a. | 195242 | 44°27' | 65°16' |
| Big Dam (West) | 2 | 01.c.11.c | 175255 | 44°27' | 65°17' |
| Big Red | 21 | 01.c.08.06.a | 100130 | 44°21' | 65°23' |
| Central | 6 | 01.c.11.a | 160220 | 44°26' | 65°19' |
| Coblielle | 35 | 01.01.a.05.a | 220090 | 44°19' | 65°14' |
| Dennis Boot | 5 | 01.c.11.b.01.(01).a | 099238 | 44°27' | 65°23' |
| Frozen Ocean | 3 | 01.c.11.b | 130245 | 44°27' | 65°21' |
| George | 30 | 01.b | 238116 | 44°27' | 65°13' |
| Grafton | 11 | 01.c.14.a | 260165 | 44°23' | 65°11' |
| High | 22 | 01.c.06.a | 200137 | 44°21' | 65°16' |
| Hilchemakaar | 41 | 01.01.02.c | 213064 | 44°17' | 65°14' |
| Kejimkujik | 10 | 01.c | 220160 | 44°23' | 65°15' |
| Liberty | 9 | 01.c.08.07.a | 065175 | 44°23' | 65°26' |
| Little Liberty | 8 | 01.c.08.05.01.a | 070180 | 44°23' | 65°25' |
| Little Peskowesk | 43 | 01.01.02.a | 226059 | 44°17' | 65°13' |
| Little Red | 25 | 01.01.b.06.01.a | 089123 | 44°20' | 65°24' |
| Loon | 36 | 01.a | 255095 | 44°19' | 65°12' |
| Lower Silver | 40 | 02.01.b | 197066 | 44°17' | 65°16' |
| Luxion | 19 | 01.c.08.03.a | 132146 | 44°22' | 65°21' |

continued....

Alphabetical listing of 46 lakes in Kejimkujik National Park (continued)

| Lake | No. | Drainage Reference | Military Grid Ref. | Latitude | Longitude |
|---|---|---|---|---|---|
| McGinty | 20 | 01.c.14.a.02.01.b | 278140 | 44°22' | 65°10' |
| Mountain | 31 | 01.01.a.05.b | 200100 | 44°19' | 65°16' |
| Mud | 44 | 01.01.02.b | 227053 | 44°17' | 65°13' |
| North Cranberry | 29 | 01.c.05.a | 220110 | 44°20' | 65°14' |
| Pebbleloggitch | 38 | 02.03.a | 124079 | 44°18' | 65°21' |
| Peskawa | 33 | 01.01.b | 120100 | 44°19' | 65°22' |
| Peskowesk | 34 | 01.01.a | 170090 | 44°19' | 65°17' |
| Poplar | 18 | 01.01.b.06.a | 060140 | 44°21' | 65°26' |
| Puzzle | 32 | 01.c.05.b | 221100 | 44°19' | 65°14' |
| Snake | 23 | 01.c.15.a | 241138 | 44°21' | 65°12' |
| Upper Silver | 42 | 02.01.c | 205056 | 44°17' | 65°15' |
| UNNAMED (Numbers refer to map key) | | | | | |
| No. 1 | | 01.c.11.(05).a | 173267 | 44°28'21" | 65°17'50" |
| No. 7 | | 01.c.10.(03).a | 134193 | 44°24'16" | 65°20'39" |
| No. 12 | | 01.c.08.02.01.a | 161159 | 44°22'31" | 65°18'34" |
| No. 13 | | 01.c.(07).c | 163152 | 44°22'06" | 65°18'23" |
| No. 14 | | 01.c.(07).b | 164153 | 44°22'10" | 65°18'18" |
| No. 15 | | 01.c.07.a | 168152 | 44°22'06" | 65°18'00" |
| No. 16 | | 01.c.14.a.(03).a | 258152 | 44°22'13" | 65°11'10" |
| No. 17 | | 01.c.14.a.(01).a | 274157 | 44°22'31" | 65°10'00" |
| No. 24 | | 01.c.14.a.02.01.a | 273139 | 44°21'34" | 65°10'23" |
| No. 27 | | 01.c.15.a.(02).a | 244129 | 44°21'00" | 65°12'11" |
| No. 28 | | 01.a.04.02.a | 266122 | 44°20'37" | 65°10'32" |
| No. 45 | | | 199049 | 44°16'40" | 65°15'20" |
| No. 46 | | 01.01.02.c.(02).a | 224042 | 44°21'15" | 65°13'30" |

FIGURE 2 - Numbers in brackets refer to the Drainage Reference Numbering System. Explanation on Page 5.

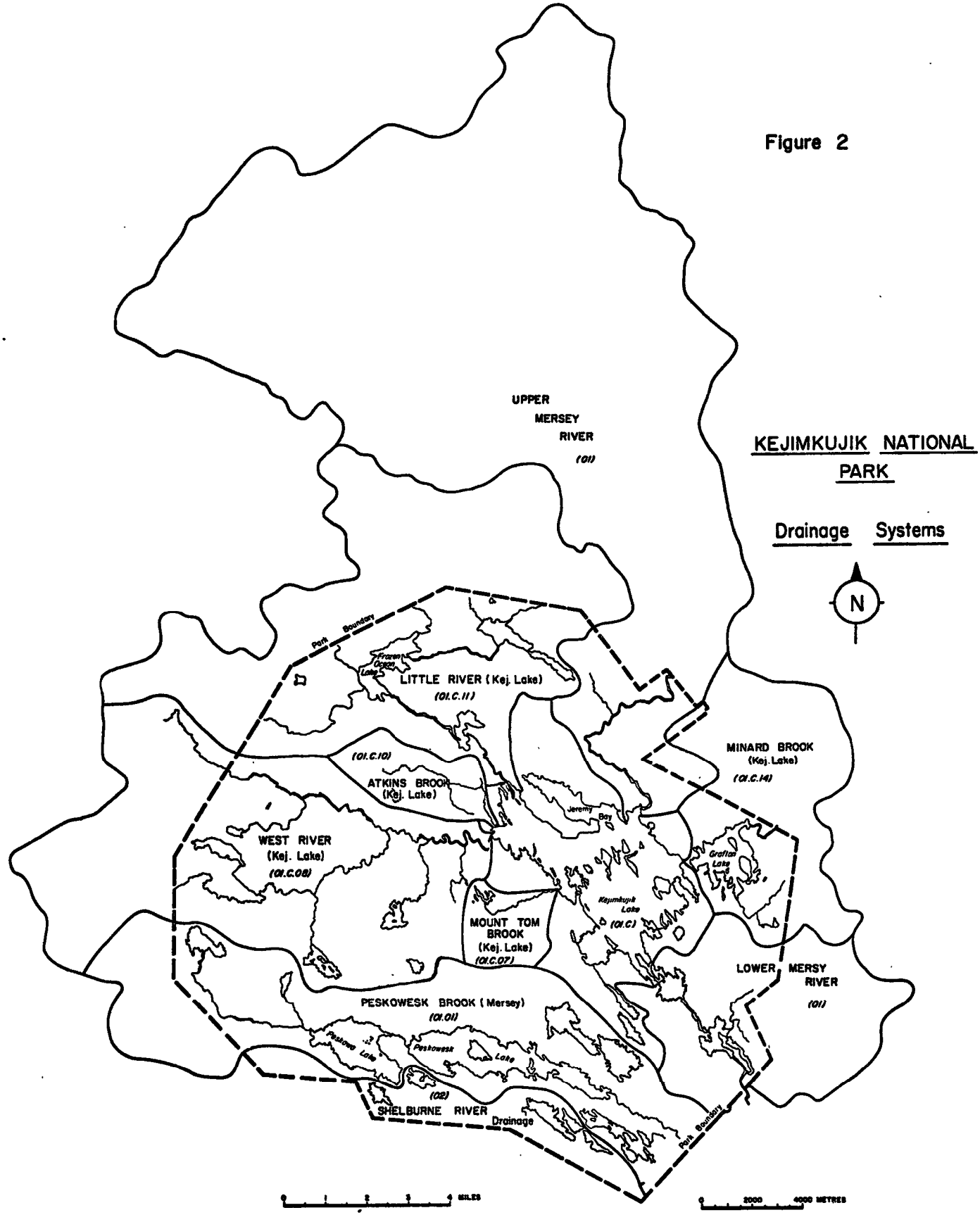


TABLE II

## ALPHABETICAL LISTING OF STREAMS IN KEJIMKUJIK NATIONAL PARK

| Stream | Drainage Ref. | *Std. Military Grid Ref. |
|---|---|---|
| Atkins Bk. | 01.c.10 | 173180 |
| Beaverskin Bk. | 02.02 | 158054 |
| "Big Red" Bk. | 01.c.08.06 | 102156 |
| Butler Meadow Bk. | 01.03 | 267085 |
| Cannon Bk. | 01.a.04 | 260099 |
| "Coblielle" Bk. | 01.01.a.05 | 205084 |
| Fraser Bk. | 01.c.14.05 | 279175 |
| "Granite" Bk. | 02.04 | 110081 |
| Innes Bk. | 01.c.11.b.01 | 123235 |
| Lewis Bk. | 01.c.11.b.03 | 145255 |
| Liberty Bk. | 01.c.08.07 | 081158 |
| Little Liberty Bk. | 01.c.08.05.01 | 098192 |
| "Little Red" Bk. | 01.01.b.06.01 | 096105 |
| Little River | 01.c.11 | 176197 |
| Lucifer Bk. | 01.01.b.06 | 098104 |
| Luxion Bk. | 01.c.08.03 | 146175 |
| "McGinty" Bk. | 01.c.14.a.02.01 | 271145 |
| "Menchan" Bk. | 01.01.02.b.01 | 228050 |
| Mersey River | 01 | |
| "Minard" Bk. | 01.c.14 | 244165 |
| Mount Tom Bk. | 01.c.07 | 195155 |
| "North Cranberry" Bk. | 01.c.05 | 208126 |
| North West River | 01.c.08.05 | 130179 |
| Otter Bk. | 02.01 | 182044 |
| Paddy Bk. | 01.a.04.01 | 261103 |
| "Pebbeloggitch" Bk. | 02.03 | 117079 |
| Peskowesk Bk. | 01.01 | 260055 |
| Red Bk. | 01.01.01 | 256058 |
| Red Bk. | 01.01.02 | 240057 |
| Shelburne River | 02 | (Not in park) |

continued.....

Table II (cont'd)

| Stream | Drainage Ref. | *Std. Military Grid Ref. |
|---|---|---|
| "Snake" Bk. | 01.c.15.a.01 | 242139 |
| Square Camp Bk. | 01.02 | 260072 |
| Stewart Bk. | 01.c.11.b.02 | 120240 |
| Sweeney Bk. | 01.c.14.a.02 | 264150 |
| "Turnpike" Bk. | 01.c.08.08 | 059166 |
| West River | 01.c.08 | 172177 |
| UNNAMED (TRIBUTARIES OF STREAMS IN BRACKETS) | | |
| (Atkins Bk.) | 01.c.10.01 | 167195 |
| | 01.c.10.02 | 155196 |
| | 01.01.a.04 | 161101 |
| | 01.01.a.04.01 | 163105 |
| | 01.01.a.04.02 | 166114 |
| | 01.01.a.04.03 | 166116 |
| | 01.01.a.04.04 | 165117 |
| | 01.01.a.04.05 | 150127 |
| | 01.01.a.04.06 | 147126 |
| (Cannon Bk.) | 01.a.04.02 | 271117 |
| (Kejimkujik Lake) | 01.c.09 | 170178 |
| | 01.c.12 | 197196 |
| | 01.c.13 | 200194 |
| | 01.c.15 | 239141 |
| | 01.c.16 | 237140 |
| (Little River) | 01.c.11.c.04 | 169259 |
| (Lucifer Bk.) | 01.01.b.06.02 | 069110 |
| | 01.01.b.06.02.01 | 067107 |
| | 01.01.b.06.03 | 057131 |
| (Mersey River) | 01.17 | 230191 |
| | 01.18 | 227195 |
| | 01.19 | 212215 |
| | 01.20 | 218222 |
| | 01.21 | 227227 |
| | 01.21.01 | 226231 |

continued....

Table II (cont'd)

| Stream | Drainage Ref. | *Std. Military Grid Ref. |
|---|---|---|
| (Minard Bk.) | 01.c.14.04 | 275173 |
| (Mount Tom Bk.) | 01.c.07.01 | 183151 |
| | 01.c.07.02 | 179149 |
| | 01.c.07.03 | 170146 |
| (Peskowesk Bk.) | 01.01.03 | 233065 |
| (Sweeney Bk.) | 01.c.14.a.02.02 | 286161 |
| (West River) | 01.c.08.01 | 169171 |
| | 01.c.02.02 | 160172 |
| | 01.c.08.02.01 | 159161 |
| | 01.c.08.04 | 143177 |
| | 01.c.08.09 | 048159 |

* Taken at the mouth of river, or exit from park.

Table III. Drainage basins in Kejimkujik National Park, listed in the sequence of their drainage reference number. For drainages with some area out of the park, the figures in brackets refer to the total watershed, while those without refer to the area within the park.

| Drainage Reference Number | Name | Lake | | Watershed | |
|---|---|---|---|---|---|
| | | Surface Hectares | Elevation ft. | Area $km^2$ | Relief ft. |
| 01 | Mersey R. | | | (842)<br>367 | (850-300)<br>650-300 |
| 01.01 | Peskowesk Bk. | | | ( 98)<br>78 | (650-300)<br>650-300 |
| 01.01.01 | Red Bk. | | | (0.75)<br>0.5 | (350-300)<br>350-300 |
| 01.01.02 | Red Bk. | | | (7.7)<br>6.3 | (450-350)<br>400-350 |
| 01.01.02.a | Little Peskowesk L. | 11.3 | 320 | (6.3)<br>4.9 | (450-320)<br>400-320 |
| 01.01.02.b | Mud L. | 6.97 | 330 | (6.1)<br>4.7 | (450-330)<br>400-330 |
| 01.01.02.<br>b.01 | "Menchan" Bk. | | | (2.0)<br>0.6 | (450-350)<br>400-350 |
| 01.01.02.c | Hilchemakaar L. | 95.4 | 350 | 3.8 | 400-350 |
| 01.01.02.c.<br>(02).a | No. 46 | 0.46 | 375 | 0.3 | 400-375 |
| 01.01.03 | | | | 1.6 | 400-350 |
| 01.01.a | Peskowesk L. | 319.4 | 350 | ( 85)<br>65 | (650-350)<br>650-350 |
| 01.01.a.04 | | | | 5.2 | 650-350 |
| 01.01.a.05 | "Coblielle" Bk. | | | 11.9 | 550-350 |
| 01.01.a.05.a | Coblielle L. | 132.0 | 400 | 11.5 | 550-400 |
| 01.01.a.05.b | Mountain L. | 136.0 | 400 | 8.2 | 550-400 |
| 01.01.b | Peskawa L. | 187.2 | 400 | ( 66)<br>46 | (650-400)<br>600-400 |

continued....

Table III (continued)

| Drainage Reference Number | Name | Lake | | Watershed | |
|---|---|---|---|---|---|
| | | Surface Hectares | Elevation ft. | Area $km^2$ | Relief ft. |
| 01.01.b.06 | Lucifer Bk. | | | ( 35)<br>16.9 | (650-400)<br>600-400 |
| 01.01.b.06.01 | "Little Red" Bk. | | | 4.8 | 600-400 |
| 01.01.b.06.01.a | Little Red L. | 19.6 | 500 | 3.8 | 600-500 |
| 01.01.b.06.02 | | | | (10.3)<br>1.2 | (650-450)<br>550-450 |
| 01.01.b.06.02.01 | | | | ( 2.7)<br>0.9 | (550-450)<br>500-450 |
| 01.01.b.06.03 | | | | ( 7.2)<br>0.5 | (650-550)<br>550-550 (-) |
| 01.01.b.06.a | Poplar L. | 82.5 | 550 | ( 5.6)<br>3.2 | (650-550)<br>600-550 |
| 01.02 | Square Camp Bk. | | | 4.6 | 400-300 |
| 01.03 | Butler Meadow Bk. | | | ( 1.5)<br>0.3 | (350-300)<br>350-300 |
| 01.a | Loon L. | 73.8 | 275 | (726)<br>283 | (850-275)<br>650-275 |
| 01.a.04 | Cannon Bk. | | | ( 33)<br>8.5 | (550-300)<br>450-300 |
| 01.a.04.01 | Paddy Bk. | | | (15.3)<br>1.6 | (550-300)<br>350-300 |
| 01.a.04.02 | | | | 4.6 | 450-300 |
| 01.a.04.02.a | Lake No. 28 | 6.32 | 300 | 4.1 | 450-300 |
| 01.b | George L. | 92.0 | 290 | (687)<br>267 | (850-290)<br>650-290 |
| 01.c | Kejimkujik L. | | 292 | (682)<br>260 | (850-292)<br>650-292 |
| 01.c.05 | "North Cranberry" Bk. | | | 4.6 | 400-300 |
| 01.c.05.a | North Cranberry L. | 34.3 | 350 | 3.6 | 400-350 |

continued....

Table III (continued)

| Drainage Reference Number | Name | Lake | | Watershed | | |
|---|---|---|---|---|---|---|
| | | Surface Hectares | Elevation ft. | Area $km^2$ | Relief ft. | |
| 01.c.05.b | Puzzle L. | 33.7 | 400 | 2.1 | 400-400 | (-) |
| 01.c.(06).a | High L. | 3.81 | 300 | 1.1 | 400-300 | |
| 01.c.07 | Mount Tom Bk. | | | 10.2 | 650-300 | |
| 01.c.07.01 | | | | 1.2 | 550-300 | |
| 01.c.07.02 | | | | 1.5 | 550-350 | |
| 01.c.07.a | Lake No. 15 | 14.0 | 375 | 0.6 | 450-375 | |
| 01.c.(07).b | Lake No. 14 | 1.39 | 400 | 0.2 | 450-400 | |
| 01.c.(07).c | Lake No. 13 | 0.28 | 400 | 0.2 | 450-400 | |
| 01.c.08 | West River | | | (120)<br>76 | (700-300)<br>650-300 | |
| 01.c.08.01 | | | | 0.4 | 400-300 | |
| 01.c.08.02 | | | | 5.8 | 650-300 | |
| 01.c.08.02.01 | | | | 0.1 | 450-400 | |
| 01.c.08.02.01.a | Lake No. 12 | 1.30 | 400 | 0.1 | 450-400 | |
| 01.c.08.03 | Luxion Bk. | | | 8.0 | 600-300 | |
| 01.c.08.03.a | Luxion L. | 24.5 | 450 | 4.7 | 600-450 | |
| 01.c.08.04 | | | | 0.5 | 350-300 | |
| 01.c.08.05 | North West R. | | | ( 36)<br>20 | (700-350)<br>550-350 | |
| 01.c.08.05.01 | Little Liberty Bk. | | | 5.8 | 500-400 | |
| 01.c.08.05.01.a | Little Liberty L. | 15.4 | 450 | 1.0 | 500-450 | |
| 01.c.08.06 | "Big Red" Bk. | | | 10.7 | 600-400 | |
| 01.c.08.06.a | Big Red L. | 70.5 | 525 | 8.0 | 600-525 | |
| 01.c.08.06.b | Ben L. | 20.4 | 550 | 1.7 | 650-550 | |

continued....

Table III (continued)

| Drainage Reference Number | Name | Lake | | Watershed | |
|---|---|---|---|---|---|
| | | Surface Hectares | Elevation ft. | Area $km^2$ | Relief ft. |
| 01.c.08.05.01 | Liberty Bk. | | | 3.4 | 550-450 |
| 01.c.08.07.a | Liberty L. | 73.3 | 450 | 2.0 | 550-450 |
| 01.c.08.08 | | | | (3.9)<br>0.9 | (650-450)<br>550-450 |
| 01.c.08.09 | | | | (1.6)<br>1.5 | (600-450)<br>600-450 |
| 01.c.09 | | | | 0.1 | 300-300 (-) |
| 01.c.10 | Atkins Bk. | | | 13.6 | 450-300 |
| 01.c.10.01 | | | | 1.2 | 350?-300 |
| 01.c.10.02 | | | | 1.9 | 350-300 |
| 01.c.10.(03).a | Lake No. 7 | 9.75 | 350 | 0.7 | 400-350 |
| 01.c.11 | Little River | | | (131)<br>56 | (700-300)<br>550-300 |
| 01.c.11.a | Central L. | 68.4 | 320 | (128)<br>53 | (700-320)<br>550-320 |
| 01.c.11.b | Frozen Ocean L. | 228 | 350 | (116)<br>42 | (700-350)<br>550-350 |
| 01.c.11.b.01 | Innes Bk. | | | ( 30)<br>12 | (700-350)<br>550-350 |
| 01.c.11.b.01.(01).a | Dennis Boot L. | 8.73 | 450 | 0.55 | 650-450 |
| 01.c.11.b.02 | Stewart Bk. | | | ( 11)<br>2.0 | (600-350)<br>550-350 |
| 01.c.11.b.03 | Lewis Bk. | | | ( 20)<br>1.6 | (700-350)<br>550-350 |
| 01.c.11.c | Big Dam "West" L. | 105 | 400 | ( 40)<br>11.1 | (700-400)<br>550-400 |
| 01.c.11.c.a | Big Dam "East" L. | 45.5 | 400 | 2.0 | 450-400 |

continued....

Table III (continued)

| Drainage Reference Number | Name | Lake | | Watershed | |
|---|---|---|---|---|---|
| | | Surface Hectares | Elevation ft. | Area $km^2$ | Relief ft. |
| 01.c.11.c.04 | | | | (5.6)<br>1.8 | (650-400)<br>550-400 |
| 01.c.11.(05).a | Lake No. 1 | 2.79 | 450 | (0.4)<br>0.2 | (550-450)<br>500-450 |
| 01.c.12 | | | | 5.3 | 400-300 |
| 01.c.13 | | | | 1.3 | 350-300 |
| 01.c.14 | "Minard" Bk. | | | ( 53)<br>18 | (550-300)<br>500-300 |
| 01.c.14.a | Grafton L. | 270 | 325 | ( 53)<br>18 | (550-325)<br>500-350 |
| 01.c.14.a.(01).a | Lake No. 17 | 0.93 | 330 | 0.3 | 350-330 |
| 01.c.14.a.02 | Sweeney Bk. | | | ( 12)<br>4.7 | (550-350)<br>450-350 |
| 01.c.14.a.02.01 | "McGinty" Bk. | | | (2.0)<br>1.7 | (450-350)<br>450-350 |
| 01.c.14.a.02.01.a | Lake No. 24 | 1.20 | 340 | (1.6)<br>1.3 | (450-340)<br>450-340 |
| 01.c.14.a.02.01.b | McGinty L. | 4.37 | 350 | (1.0)<br>0.7 | (450-350)<br>450-350 |
| 01.c.14.a.02.02 | | | | (2.4)<br>0.2 | (450-350)<br>450-350 |
| 01.c.14.a.(03).a | Lake No. 16 | 2.51 | 330 | 0.8 | 450-330 |
| 01.c.14.04 | | | | 0.8 | 450-350 |
| 01.c.14.05 | Fraser Bk. | | | (0.5)<br>0.4 | (450-350)<br>450-350 |
| 01.c.15 | | | | 1.2 | 350-300 |
| 01.c.16 | | | | 1.2 | 350-300 |
| 01.c.15.a | Snake L. | 12.7 | 300 | 1.1 | 350-300 |

continued....

Table III (continued)

| Drainage Reference Number | Name | Lake | | Watershed | |
|---|---|---|---|---|---|
| | | Surface Hectares | Elevation ft. | Area $km^2$ | Relief ft. |
| 01.c.15.a.01 | "Snake" Bk. | | | 0.4 | 350-300 |
| 01.c.15.a.(02).a | Lake No. 27 | 0.46 | 300 | 0.1 | 350-300 |
| 01.17 | "Joe's" Bk. | | | 3.9 | 500-300 |
| 01.18 | | | | 0.4 | 450-300 |
| 01.19 | | | | 2.2 | 400-350 |
| 01.20 | | | | 3.3 | 450-350 |
| 01.21 | | | | (5.8)<br>2.2 | (550-350)<br>600-350 |
| 01.21.01 | | | | (1.3)<br>0.3 | (450-350)<br>450-350 |
| 02 | Shelburne R. | | | 19.0 | 550-350 |
| 02.01 | Otter Bk. | | | 9.3 | 400-350 |
| 02.01.a | Back L. | 78.4 | 325 | 4.1 | 400-325 |
| 02.01.b | Lower Silver L. | 24.7 | 350 | 1.6 | 400-350 |
| 02.01.c | Upper Silver L. | 24.3 | 375 | .9 | 400-375 |
| 02.02 | Beaverskin Bk. | | | 4.8 | 450-350 |
| 02.02.a | Beaverskin L. | 39.5 | 400 | 1.0 | 450-400 |
| 02.03 | "Pebbleloggitch" Bk. | | | 2.0 | 450-400 |
| 02.03.a | Pebbleloggitch L. | 33.4 | 400 | 1.6 | 450-400 |
| 02.04 | "Granite" Bk. | | | 2.9 | 550-400 |

# APPENDIX

List of Aquatic Resource Inventory Reports,
Kejimkujik National Park, Nova Scotia.

| Report Number | Title |
|---|---|
| Preliminary report | Drainage Basin Catalogue for Kejimkujik National Park |
| 1 | Lake Drainage and Morphometry |
| 2 | Hydrographic Maps, Area and Volume Curves |
| 3 | Selected Limnological Measurements in 29 lakes in 1971 and 1972 |
| 4 | Chemical Composition of Lake and River Waters |
| 5 | A Brief Survey of Thirty Lakes |
| 6 | Distribution of Fishes |
| 7 | Distribution of Aquatic Invertebrates |
| 8 | Winter Conditions in Four Lakes |
| 9 | Series of Maps and Overlays Scale 1:50,000 Summarizing Significant Limnological Features |