

PRELIMINARY REPORT ON ALGAL
SURVEY OF THE CHAIN O' LAKES
APRIL 25, 26, 27, 1971

by

Stephen Weller

Aquatic Zoology

Dr. Curry

May 10, 1971

Methods

Samples were taken April 25-27, 1971. Three boats were used to take the sample, the Fish ^{3P}Hook ~~Hook~~ ^{Hawk} coordinated the two smaller boats which worked along the shore. Algae samples were either scraped from stones or logs, or floating algae was collected in a net. These samples were placed in appropriately labeled bottles and returned to Central Michigan University for identification. The sampling stations were recorded on a map for future reference. Keys from Standard Methods (1) and Needham and Needham (2) were used to identify the algae and diatoms to genera.

Results

Each student was required to identify six of the sample bottles and record the results for the preliminary report. The results of my six sampling stations are as follows:

24. 1. FRN - West Elk Lake 4/26/71 white cabin 4 cabins from north point above golf course.
Algae: Zygnema, Microspora, Ulothrix
25. 2. FRN - West Elk 4/26/71 yellow and brown house north of point by golf course in a cove.
Algae: Zygnema, Ulothrix, Microspora
26. 3. FRN - 4/25/71 North Torch Lake new pink house
Algae: Ulothrix, Microspora
27. 4. FRN - 4/26/71 West Torch green and white cabin $\frac{1}{4}$ mile south of French Point
Algae: Ulothrix, Microspora, Zygnema

5. FRN - 4/26/71 West Torch Lake, brick house with stand of oaks beside it about $\frac{1}{2}$ mile down into cove

Algae: Microspora, Zygnema

6. FRN - 4/27/71 West Torch 2 cabins north of Torch Cliff 15 feet from shore gravel.

Diatoms: Navicula, Diatoma

Summary

All generas of algae which occurred in my samples were of the green algae type which usually occur in fairly clean unpolluted waters. From just my samples, the lakes from this preliminary study do not show any pollution. If blue-green algae does begin to appear as in some of the other samples examined, the warning to people will have will have appeared that our previously clean water is becoming polluted.

9.8
9.0 Always -
add sp. or spp.
after scientific
name.

LITERATURE CITED

1. American Public Health Association. 1965. Standard Methods for the Examination of Water and Wastewater. Twelfth Ed. American Public Health Association, Inc. New York, N.Y.
2. Needham, James G, and P.R. Needham. 1962. A guide to the study of freshwater biology. Holden - Day, Inc., San Fransico, California 108 pp.