

PRELIMINARY SURVEY OF PHYTOPLANKTON ON CHAIN OF LAKES

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INTRODUCTION

There has been sporadic phytoplankton surveys in the last two or three years usually made limited areas. These surveys consisted of samples sent into Central Michigan University by members of the lakes associations in the Chain of Lakes area. This preliminary survey is more of a complete test for algae blooms in areas suspected of an influx of unnatural nutrients from various individuals.

MATERIALS AND METHODS

The survey was made in the last weekend of April, 1971, by various members of the Aquatic Zoology class of Central Michigan University. Three boats were used in navigating and collecting algae samples in Lakes Bellaire, Clam, Torch, Skegemog, and Elk. One large boat, the Fishhawk, moved down the middle of the lake with two small outboards collecting samples along the shores. The algae samples taken from rocks and pipes were preserved in 4% formalin and brought back to Central Michigan U. Here they were keyed to Genera and labeled.

RESULTS

Below is a list of genera of algae and diatoms found in 5 sampling stations from the Chain of Lakes:

Stations

Genera of algae and diatoms

FR. 4-25-71-7

location

1. Ulothrix sp.-dominant
2. Cymbella sp.
3. Synedra sp.

FR. 4-25-71-2

ⓔ Torch Lake

where on lake

1. Ulothrix sp.-dominant
2. Gonphonema sp.
3. Achnanthes sp.
4. Meridion sp.
5. Synedra sp.

ⓖ

ⓔ Bellaire Lake

1. Ulothrix sp.-dominant
2. Gonphonema sp.
3. Cymbella sp.

FR. 4-26-71-3

ⓔ Elk Lake

1. Ulothrix sp.-dominant
2. Synedra sp.
3. Meridion sp.
4. Diatoma sp.

?

ⓔ Torch Lake

4-25-71

1. Ulothrix sp.-young colony-dominant
2. Cymbella sp.
3. Phormidium sp.
4. Gonphonema sp.

*9.5
need more
info. as to
location*

REFERENCES

1. Prescott, G. W., 1970. How to Know The Freshwater Algae.
Brown Co., Dubuque, Iowa. 348 pp.