

PRODUCTIVITY OF NAJAS FLEXILIS IN DOUGLAS LAKE, MICHIGAN.

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This note is a preliminary report on the status of this project as a requirement for my Grant-in-Aid, 1973.

Field work thus far has consisted of establishment of a series of permanent plots in varying water depths near Maple Point. These plots have been visited four times in the last eight weeks for the purpose of gathering field data (species presence, number of individuals of each species, height of each individual, phenological stage of each species, status of growth of different parts). At each sample period I have collected a series of at least 50 individual plants. These plants were returned to the laboratory for preliminary analysis (consisting of measurement of height of each plant, length of roots of each plant, and general growth status). The plants were then air-dried.

Additional analysis will consist of oven drying and determination of dry weight, combustion of part of the sample to determine ash-free (organic) weight, and tissue analysis. These data will then be analyzed to determine the productivity of the species in Douglas Lake.

Four sets of samples of Najas flexilis have been collected from Douglas Lake. Due to the late flowering of the plants it will be necessary to collect an additional

set of samples on 18 August 1973. This will delay final analysis until early September. Within a reasonable period of time after the final physical and chemical analysis is complete a final written report will be submitted to the director of the biological station. It is anticipated that this report will be suitable for publication after normal revision and editing.

Final Report

...specimens for the study, and eventually to