

Limnology of Algal Species in Inya Lake (In Part)

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Abstract

An investigation has been made on the biological, physical and chemical parameters at selected stations in Inya lake over a period of ten months. (July 2004 to April 2005). The physico-chemical properties of these water samples such as temperature, color, turbidity, total dissolved solids, suspended solids, total solids, pH, total hardness, free carbon dioxide, salinity, sulphate, ammonia nitrogen, nitrite nitrogen and phosphate were determined. The biological properties involving dissolved oxygen, biochemical oxygen demand and chemical oxygen demand were also investigated. The number of algal species and monthly population changes of algal species were recorded. The temperature of water samples varied from 26°C to 34°C, the total dissolved solids were ranging from 25 mg/l to 100 mg/l, and pH varied between 6.5 mg/l and 7.1 mg/l for all stations during the study periods. A total of 39 genera and 52 species of algae were observed and identified during a period of ten months.

Key words: Physico-chemical parameters, variations of algal species.

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