SUMMARY

The present communication portrays the limnobiology of ITANAGAR, a semiclosed mesotrophic to weak eutrophic lake of Arunachal Pradesh (India) based on 24 months of empirical studies from January, 1983 through December, 1984. Since such studies have not yet been attended in this panoramic N. E. state of India, the work has been extended to the following aspects.

The hydrography of the lake has been studied with particular reference to the characteristic of the catchment, morphology, morphometry and drainage trend.

An extensive investigations have been made on the principal parameters of water having relevance to the present work.

Limnoplankton have been studied seperately as phytoplankton and zooplankton. Qualitative and
quantitative analysis of the plankton have been made along with their nature, distribution, seasonal incidence and occurrence density in the lake during the investigation periods.

Ichthyospecies of the lake have been identified and density structure of the indigenous types has been elucidated. Besides, the average annual growth rate of the principal-cum-commercial species of the lake has been portrayed to help understand the ichthyological potentialities of the lake.

The intra and inter-relationship amongst various limnological parameters and their bearing on fish productivity in the ecosystem have been critically analysed and presented in the chapter, Discussion.


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