Journal of Environmental Hydrology

ISSN 1058-3912

Electronic Journal of the International Association for Environmental Hydrology

JEH Volume 14 (2006), Paper 20 Posted November 25, 2006

ASPECTS OF HYDROBIOLOGY OF LAKE ONA IN SOUTHERN NIGERIA 1: FISH FAUNA

K. Jerimoth Ekelemu Samuel A.A. Zelibe

Department of Animal Science & Fisheries, Delta State University, Asaba Campus, Nigeria

ABSTRACT

A study was conducted at three stations on Lake Ona between August 2001 and July 2003, to provide baseline information on the community structure, species composition, abundance, diversity and spatial distribution of the fish fauna of the lake. Fish samples were collected fortnightly from the stations between 06.00-07.30 hrs and 17.00-18.30 hrs on sampling days. A complement of both surface and bottom fshing gear were used to catch fish. The total catch was 1,394 individuals with a biomass of 184 kg. The catch was made up of 52 species, 33 genera and 22 families. The dominant species in terms of number and biomass were Mochokidae and Osteoglosside respectively. Analysis of variance and LSD showed fish biomass at stations I and V to be significantly different from Station III (P<0.05). Number of fish caught in stations III and V were significantly different from Station I (P<0.05) but were not significantly different from each other (P>0.05). Station I had the lowest number of taxa and individuals caught, but had the highest diversity and evenness. With good management, the fisheries resource of the lake can be profitably exploited.

Reference: Ekelemu, K.J., and S.A.A. Zelibe. 2006. Aspects of hydrobiology of Lake Ona in Southern Nigeria 1: Fish fauna. Journal of Environmental Hydrology, Vol. 14, Paper 20.

CONTACT:

Samuel A.A. Zelibe Department of Animal Science & Fisheries Delta State University - Asaba Campus Abraka, Nigeria

E-mail: azubuikezelibe@yahoo.com

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