

Hydrobiological studies of zooplankton of Owena reservoir, Ondo state, Nigeria

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Owena Reservoir was constructed in 1966 primarily to supply water to Ondo, Akure, and Bolorunduro mostly during the dry season. There is dearth of information on the zooplankton of Owena Reservoir. The aim of the study was to investigate the zooplankton of the river and its reservoir in order to provide baseline information which can be utilized as a platform for impacts assessment, planning and implementation of policies for monitoring and effective development. Monthly sampling was carried out from June, 2007 to July; 2009. plankton net of 55 μ m mesh size was used for collection of plankton using APHA methods. Ecological indices including Shannon weaver (H') margalef (d) and Equitability (E) were used for biological assessment. Data were analyzed using correlation coefficient and one way analysis of variance (ANOVA). The zooplankton community was dominated by *Branchionus falcatus* in both seasons followed by *Branchionus quadridentatus*, other abundant species include *Lepadella patella*, *Asplanchna brightwelli*, *Filinia oponienses* and *Odonata nymphs*. The percentage composition by number of the zooplankton decrease at Inflow, Reservoir and Outflow. zooplankton present are indicative of organic pollution in Owena river and its reservoir.

Biography

Olaniyan R.F completed his M.Sc in 2003 at age of 32 years in University of Ibadan, Nigeria Department of Zoology, presently a Lecturer in department of biology, Obafemi Awolowo University, Adeyemi Campus, Nigeria. He had published more than 10 papers in reputable Journals. He is currently a Ph.D. student at University of Ibadan, Nigeria.

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