

ORIGINAL RESEARCH

Hydrobiological parameters and phytoplankton analysis in Kadamba pond and Arumugamangalam pond of South Tamilnadu

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ABSTRACT:

The planktonic composition along with the hydrobiological parameters of the Kadamba pond and Arumugamangalam pond was studied during the period of January 2012 to December 2012. The hydrobiological characteristics of pond water have direct impact on prevailing human activities and exploitation of agricultural fertilizers, manures, pesticides and insecticides. A total number of 130 micro algae were observed. Among these 48 species belongs to Cyanophyceae, 33 species belongs to Bacillariophyceae, 32 species belongs to Chlorophyceae, 07 species belongs to Euglenophyceae, 04 species belongs to Dinophyceae, 01 species belong to Chrysophyceae, 01 species belong to Noctiluciphyceae, 01 species of Prymnesiophyceae, 01 species belong to Pyrrophyceae, 01 species belong to Ulvophyceae and 01 species belong to Zygnemophyceae were present. Included to this some of the zooplanktons such as *Bosmina longirostris*, Chaborus, Asplanchna and *Daphnia longispina* were present. In the present investigation Cyanophyceae emerged as a major Algal group.

Keywords:

Phytoplanktons, zooplanktons and Physico-chemical parameters.

Web Address:

[http://ecologyresearch.info/
documents/EC0030.pdf](http://ecologyresearch.info/documents/EC0030.pdf)

Article Citation:

Esther Isabella Eucharista.F and Mohanraj Ebenezer
Hydrobiological parameters and phytoplankton analysis in Kadamba pond and
Arumugamangalam pond of South Tamilnadu
Journal of Research in Ecology (2015) 3(1): 001-020

Dates:

Received: 3 Nov 2014

Accepted: 5 Jan 2015

Published: 16 Mar 2015

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