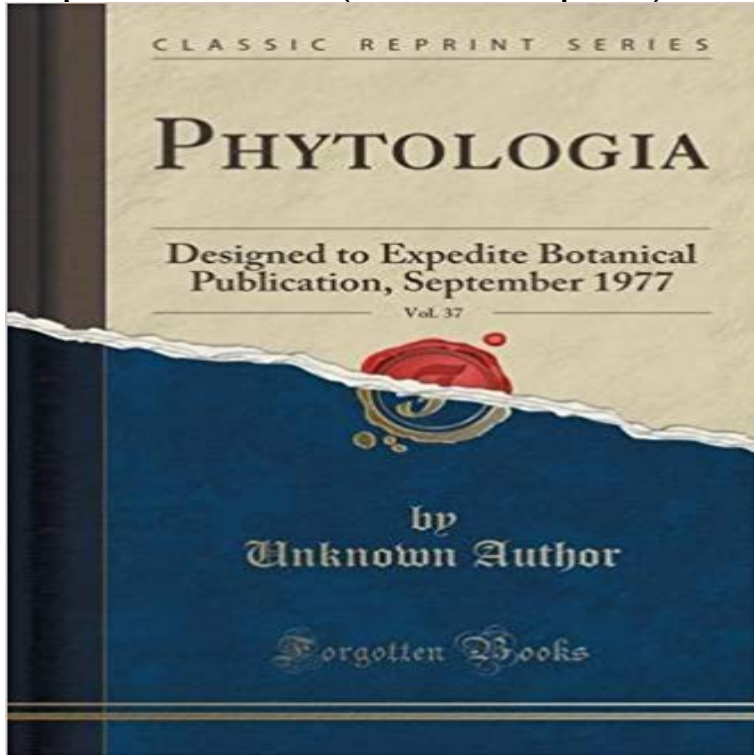


Phytologia, Vol. 37: Designed to Expedite Botanical Publication, September 1977 (Classic Reprint)



Excerpt from Phytologia, Vol. 37: Designed to Expedite Botanical Publication, September 1977. Most floristic and community ecology reports of freshwater algae are based only on preserved or fresh samples. In the present study, the phytoplankton of The Black Warrior River near Tuscaloosa, receiving domestic sewage and industrial wastes, was investigated from cultured as well as natural and preserved samples. Over 380 species and varieties of algae, including some rarely reported forms, were identified. The results of Sedgwick-Rafter and diatom proportional analyses showed that a) phytoplankton density ranged from 117-488 individuals/ml.; b) among the common groups, Chlorococcales were numerically dominant, followed by the Pennales, Chrysophyceae, Centrales and Cryptomonadaceae; c) out of 36 genera of Bacillariophyceae listed, 4 genera were abundant and constant in occurrence. Some difficulties of identification and limitations of enumeration are briefly discussed. Present data confirm the presence of a resident phytoplankton and provide useful data for current research on the taxonomy, ecology and possible pesticide degradation ability of the algae.

Introduction

The Warrior River, which has its source in North Alabama, and following its union with the Tombigbee, flows into the Gulf of Mexico at Mobile. It is impounded at Tuscaloosa by the Oliver Lock and Dam to form the Oliver Pool. Sewage from the City of Northport, after primary treatment, and effluents from several industries including a paper mill, a chemical plant, and a coke plant are discharged into the Oliver Pool. Composition and rates of discharge are available in a thesis by McClure (1968). During the spring of 1971, thirty six algal isolates were obtained in axenic cultures by standard bacteriological methods from a station at Bannetts Marina about 500 meters upstream of the dam.

These algae were studied for their possible ability to degrade pesticides. The algae are considered to be planktonic, but there are no published studies of the Warrior flora on which to base this conclusion. Further, most studies of phytoplankton populations have involved observations only of preserved materials. About the PublisherForgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.comThis book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

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