SEASONAL CHANGES IN THE NUMBERS OF ACTINOMYCETES, FILAMENTOUS FUNGI AND YEASTS IN WATER, SOIL AND PLANTS OF WETLANDS NEAR OLSZTYN

Key words: Actinomycetes, filamentous fungi, plants, soil, water, wetlands, yeasts

Summary

The paper presents result of a study on the seasonal distribution of actinomycetes, filamentous fungi and yeasts in water, soil and on surface of immersed and aerial leaves of the sedge (Carex acutiformis Ehrb.) and on dead and live roots. The study was carried out in one of the largest wetlands near Olsztyn (in Masurian Lakeland) in 1993 and 1994. In all samples of water, soil and particular parts of sedge, actinomycetes were the least frequent, filamentous fungi occurred in 10-fold greater numbers whereas yeasts occurred in 100-fold greater numbers. "Pink yeasts" were rare and occurred usually only in 1993. They were absent on aerial leaves of sedges. The differences in the numbers of studied taxonomic groups of these microorganisms between particular sites in water, soil and sedge were small. Seasonal changes in their numbers were characterised by maximum values found most often in spring and/or in summer, rarely in autumn, and only exceptionally in winter (in December 1993 and in March 1994).

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