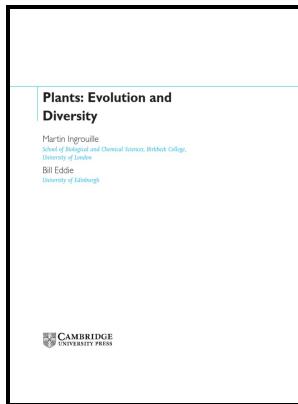


# Study of the effects of pond management on the littoral and marginal vegetation of the Old Flax Ponds, Aspley Guise.

- - Natural and constructed littoral zones as nutrient traps in eutrophicated shallow lakes



Description: -

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Notes: Special study (B.A.) - Bedford College of Higher Education, 1984.

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## The nature value of the ditch vegetation in peat areas in relation to farm management

We expected higher total nutrient contents and higher organic matter content in the natural littoral zones. A similar trend was observed for phosphorus 2. In the pond with aquatic vegetation 1 fish productivity was higher, 2 Daphnia species started to grow significantly earlier, had higher relative abundances, and delayed the population decline, 3 large sized European Daphnia galeata dominated over small sized American Daphnia parvula and Daphnia ambigua, and 4 the cladoceran resting egg bank was less eroded during winter when the ponds were dried.

## Control Methods For Aquatic Plants in Ponds and Lakes

Factor 2 correlated to ammonium and phosphate, but also to bicarbonate and negatively to pH. This, in turn, was positively related to carp biomass. When the samples were clear and green, they were cooled and demineralised water was added up to 75 ml.

## Control Methods For Aquatic Plants in Ponds and Lakes

Also, most of the two-way interactions were significant, indicating that the extractable ammonium showed complex patterns of variance. In order to test the functioning of natural and constructed littoral zones in the IJsselmeer area the following research questions were raised: 1 Are constructed littoral zones comparable to natural zones with respect to nutrient retention in soil and vegetation? Vegetation exposed by lowering the water level should be collected and removed from the pond basin, or the rotting plants will contribute nutrients that promote new growths when the water level is raised. We found differences between vegetated and non-vegetated ponds.

## Natural and constructed littoral zones as nutrient traps in eutrophicated shallow lakes

The amounts of OM, TN and TP were not dependent on the vegetation type.

### **The nature value of the ditch vegetation in peat areas in relation to farm management**

Soil erosion and fertilizer runoff including livestock wastes are the two major causes of water weeds. It might be that bird droppings have added slightly to the accumulation of N and P in the constructed sites, but we have no data to quantify this effect.

### **The nature value of the ditch vegetation in peat areas in relation to farm management**

The plant samples collected were divided into dead and living biomass. Important wetland habitats, such as fish spawning or waterfowl nesting areas, should not be covered.

### **The nature value of the ditch vegetation in peat areas in relation to farm management**

Hydrobiologia 506 1—3 : 135—145. One of the least understood aspects of aquatic ecology is the role of riparian zones of lakes, and how these habitats and their functions are impacted by human development of lakeshores. Wetlands for wastewater treatment: opportunities and limitations.

### **Natural and constructed littoral zones as nutrient traps in eutrophicated shallow lakes**

Table 3 Rotated component matrix of soil parameters with the factor loadings for each variable on the factors after rotation. You have requested a machine translation of selected content from our databases. The colonisation of disturbed freshwater habitats by Characeae.

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