

SOME HEAVY METALS ACCUMULATION AND DISTRIBUTION IN *TYPHA*
LATIFOLIA L. FROM LAKE WIELKIE IN POLAND

AGNIESZKA KLINK, JÓZEF KRAWCZYK, BARBARA LETACHOWICZ,
MAGDALENA WISŁOCKA

Abstract: The contents of Cd, Pb, Cu, Mn, Zn, Ni and Fe in different organs of *Typha latifolia* L., coming from six sites selected within Jezioro Wielkie (Leszczyńskie Lakeland in western Poland), were determined. Three groups of metals, each with a different accumulation pattern within the plant were distinguished in this study. Pb, Zn and Cu were found to be the least mobile and shown the following accumulation scheme: roots > rhizomes > lower leaf part > top leaf part. By contrast, Mn, a metal which is both easily transported in plants and accumulated in green plant organs, exhibited the following accumulation scheme: roots > top leaf part > lower leaf part > rhizomes. Ni, Cd and Fe were accumulated by the cattail as follows: roots > rhizomes > top leaf part > lower leaf part. The fact that *Typha latifolia* L. had the highest proportion of all the metals studied in its roots can suggest that some kind of protection barrier exists which prevents toxic compounds permeating from that part of this plant to its rhizomes and its aerial parts. The confirmation of this thesis requires some further research.