

The Concentration of Radioisotopes in Selected Fishes and Zooplankton Biomass of Dzierżno Duże Dam-reservoir – Maciej Kostecki, Marek Tuszyński

Summary

Concentration of radioisotopes in biological material of fishes tench (*Tinca tinca*, carp (*Cyprinus carpio*), pike (*Esox lucius*) from the Dzierżno Duże dam-reservoir were determined. The concentrations of potassium isotope ^{40}K are with normal limits for living organisms. The concentrations of radioisotopes from uranium-radium (^{238}U) progeny are about 0.1% in comparison to the concentrations of bottom sediments of this lake. The highest concentrations of cesium ^{137}Cs were determined in the muscles of pike (*Esox lucius*). Isotope cesium (^{137}Cs) was not found in the *Copepoda* biomass. The concentrations of radioisotopes from uranium-radium and thorium progeny are not hazardous.