

ABSTRACT

This Master thesis compares growth of Percidae and Cyprinidae in flooded mining pit Most with water reservoir Vír, which is stable, fifty years old. Fish were caught using toils by workers from Hydrobiology institute, Academy of Sciences, Czech Republic, which are exploring fish stock. Otoliths, scales, and operculas from both families, Cyprinidae and Percidae, were removed from fish for age determination and growth back-calculation in individual years. Due to surplus of nutrients and food in flooding mining pit is assumed a huge growth difference in the first two years of life. The aim of this thesis is not only to describe the difference in the expected growth of individual species, but also to estimate its causes. At the same time will be in a very contrasting conditions compared different methods of age determination.

Key words: otolith, fish age, fish population, fish growth, water reservoir, flooded mining pit, growth back-calculations