

Abstract

The aim of this study was to evaluate the material about the asp *Leuciscus aspius* (L., 1758) from the dam Želivka – Švihov in the years 1971 – 2014. Main emphasis was put on the analysis of the flock spawning from 2008 – 2014. Here, basic abiotic conditions were monitored at the time of the spawning and growth and population characteristics were calculated. Spawning took place at two locations, at 4 – 10 °C, the asp showed a spawning site accuracy. Males predominated on the spawning grounds in the overall ratio of 1,22 : 1. The age of the fish examined ranged from 3+ to 13+. The average mortality of adults is about 0,4. Additional flock spawning ranges from 20 to 50%. The length at which scales begin to form (SL = 29,7 mm), was determined by using the rate between the body length and scale radius. Differences in the growth rates between males and females are minimal, only from the third to the fifth age group, males showed a higher growth rates. The length – weight relationship can be described as

$$W = 0,0153 \cdot L^{3,19}.$$