

EFFECT OF DIFFERENT WATER HARDNESS ON GROWTH, SURVIVAL AND SWIM BLADDER INFLATION OF PIKEPERCH (*SANDER LUCIOPERCA*) LARVAE

VLIV RŮZNÉ TVRDOSTI VODY NA RŮST, PŘEŽITÍ A NAPLŇOVÁNÍ PLYNOVÉHO MĚCHÝŘE U LAREV CANDÁTA OBECNÉHO (*SANDER LUCIOPERCA*)

Kalenda V., Baránek V., Dvořák J., Kopp R., Mareš J., Spurný P.

Ústav zoologie, rybářství, hydrobiologie a včelařství, Agronomická fakulta, Mendelova zemědělská a lesnická univerzita v Brně, Zemědělská 1, 613 00 Brno, Česká republika.

E-mail: xkalenda@node.mendelu.cz, vitbaranek@seznam.cz, mares@mendelu.cz

ABSTRACT

The aim of this study was to compare influence of different water hardness on growth, survival and swim bladder inflation of pikeperch (*Sander lucioperca*) larvae, during 3 – 16 day post hatch (DPH). The larvae were divided in 30 l green plastic tanks with three different initial water hardness (A – 174.85, B – 114.90 and C – 59.95 mg.l⁻¹ CaCO₃). Each of treatment had three replicates. The larvae were fed only with *Artemia* nauplii. In the end of the experiment, there was observed the highest survival in the variant A (60.95%), which was significantly ($p < 0.05$) than in the variant B (33.84%), and higher than in the variant C (40.77%). Average TL, SL and W of fish in the variant A were significantly different than in variants B and C ($p < 0.05$).

Key words: pikeperch larvae, water hardness, growth, survival, swim bladder inflation