

INITIAL REARING OF TENCH LARVAE (*TINCA TINCA* L.) UNDER CONTROLLED CONDITIONS

Počáteční odchov plůdku lína obecného (Tinca tinca) v kontrolovaných podmínkách

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Abstract: The study aimed at initial feeding of early stages of tench fry (*Tinca tinca* L.) (age 12 and 21 days) was carried out from June to July 2008. The experiment was realized in 5 L aquaria in the rearing house of Kolín city. During the experiment three different feeding strategies of tench fry were tested. In the first variant living diet was used (nauplia stages of *Artemia salina*). The second variant was fed by living diet for 3 days, then for another 6 days the method of „co-feeding“ was used. In the third variant fish were fed by commercially produced diet suited for tropical fish (Perla). Main observed indices were total body length (TL), standard length (SL), individual body weight (IBW), survival (PP), survival rate (PK) specific weight growth rate (SWGR), specific length growth rate (SLGR), development index (Di) and Fulton coefficient. The highest growth rate was achieved in the first variant (D21: TL 13.2 mm, IBW 22.69 mg, PK 99.09%, SWGR 9.04%.d⁻¹). Fish from the second variant „co-feeding“ achieved favourable growth intensity (D21: TL 10.42 mm, IBW 10.67 mg, PK 94.9%, SWGR 8.79%.d⁻¹). The lowest intensity of growth was observed in the third variant (commercial diet) (D21: TL 7.72 mm, IBW 2.52 mg, PK 56.43%, SWGR 3.53%.d⁻¹). It seems that „co-feeding“ strategy is the most suitable feeding method for initial rearing of tench fry.

Key words: tench, larvae, diet, growth, survival.

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