The Impact of Level of the Stocking Density on the Hematological Profile of Cultured Great Sturgeon Juveniles (*Huso Huso* Linnaeus, 1754)

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Abstract

Hematological indices are important parameters for the evaluation of fish physiological status. The purpose of this experiment was to evaluate how level of the stocking density influence the blood physiology of juvenile great sturgeon (*Huso huso*). The experiment was conducted over a period of 35 days. A number of 1125 pieces of great sturgeon juvenile with an average weight of 48.59 ± 8.52 g in a completely random design were divided into five rearing treatments which contain triplicates in order to create different stocking densities with 25, 50, 75, 100 and 125 fish.m^{-2}. At the end if the experiment, a significant differences were observed in Red blood cell counts (RBCc), haematocrit values (Ht) and haemoglobin concentration (Hb) in cultured great sturgeon juvenile influenced by the different stocking density ($p<0.05$). However, Analysis of hematological parameters showed no significant difference between treatments in White blood cell counts (WBCc) ($p>0.05$).

Keywords: Great Sturgeon, stocking density, hematological indices.