

**Some hematological parameters of silver carp (*Hypophthalmichthys molitrix*)
in warm and cold periods**

Afshin Ghelichi ^{1*}, Sarah Jorjani²

Department of Fisheries, Azadshahr Branch, Islamic Azad University, Azadshahr, Iran. P.O. Box: 30

***Corresponding author e-mail: afsgin.ghelichi@yahoo.com**

Abstract

To determining Hematology parameters for silver carp (*Hypophthalmichthys molitrix*) in both cold and warm periods of the year (August and February) 20 silver carp were caught by netting

blades randomly. Results showed that in females, mean red and white blood cells, hematocrit, hemoglobin were significantly higher in warm period. Also results showed that in males, mean red blood cells, hematocrit, hemoglobin were significantly higher in warm period. There were no significant differences in both females and males, between heterophil, lymphocytes, eosinophils and monocytes in warm and cold periods. Based on our results, it can be seen in the serum levels of some biochemical parameters in a fish species in both sexes and in both warm and cold periods are different; the serum parameters can be affected by the physiological body activities.

Keywords: Silver carp, Hematological parameters, Warm and cold period