

عنوان مقاله:

Some of the growth characteristics of Barbatula sp. in Dimeh area of the Zayandehroud River

محل انتشار:

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نویسندگان:

Mahsa Borhani - Esfahan university of Technology, Faculty of Natural Resource, Department of Fisheries, Esfahan

Nasrolah Mahbobi Soofiani - Esfahan university of Technology, Faculty of Natural Resource, Department of Fisheries, Esfahan

Saeed Asadolah

خلاصه مقاله:

In this study age and growth of Barbatula sp. in the Dimeh area as one of origin of the Zayandehroud River, were examined. Sampling was performed monthly during 2013-2014 for twelve months and a total number of 440 specimens were collected. Sex ratio was 1:1.43 (male: female). The age of fish were determined 0+ to 5 + for female and 0+ to 4 + for male. The maximum total length and weight were recorded for females 74.66 (mm) and 2.04 (g) and for male 64.78 (mm) and 1.65 (g), respectively. Bertalanffy parameters based age- size were estimated in female ($K=0.211$ in a year, $L_{\infty}=111.01$ mm and $t_R=-1.62$ year) and male ($K=0.0249$ a year, $L_{\infty}=88.01$ mm and $t_R=-1.46$ year). The relationship between length and weight was expressed in male as $W=0.00002 L^{2.766}$ ($r^2=0.849$) and in female as $W=0.00002 L^{2.574}$ ($r^2=0.812$). Based on b values, both sexes showed a negative allometric growth.

کلمات کلیدی:

Barbatula sp., Growth, Age, Dimeh spring

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