

عنوان مقاله:

Growth patterns of *Oxynoemacheilus bergianus* in the Qarah-Chai River, the Qom Province

محل انتشار:

دومین کنفرانس ماهی شناسی ایران (سال: 1393)

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خلاصه مقاله:

Oxynoemacheilus bergianus is an endemic loach (Nemacheilidae) of Iran and little is known about its biology. This study was carried out to evaluate growth pattern of this species with 182 fish samples that obtained from February up to July 2013 with beach line net. Sex ratio of male to female was 1:1.68 that showed significant deviance from 1:1 ratio ($\chi^2 = 6.83$, $p < 0.05$). The maximum total length and weight were 63 mm and 2.77 g for females, 66 mm 2.21 g for males. The weight-length relationship of female was $W = 0.009 TL^{2.91}$ ($r^2 = 0.89$) and the weight-length relationship of male was $W = 0.007 TL^{3.07}$ ($r^2 = 0.96$) and the total relationship was $W = 0.009 TL^{2.96}$ ($r^2 = 0.91$). The results showed negative allometric growth (t-test, $t_{Rmale} = 1.57$, $t_{Rfemale} = 0.82$, $t_{Rpopulation} = 0.46$, $p < 0.05$). The condition factor was estimated 0.74 ± 0.08 in male and 0.99 ± 0.16 in female and the total condition factor was 0.91 ± 0.13 .

کلمات کلیدی:

Length- Weight relation, *Oxynoemacheilus bergianus*, Qarah-Chai River, Qom

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