

عنوان مقاله:

Short Communication : Some morphometric traits, condition factor, and growth indices of *Caridina fossarum* Heller, ۱۸۶۲ (Caridea : Atyidae), endemic to Iran

محل انتشار:

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خلاصه مقاله:

In this paper, both of growth and size structure of a population of *C. fossarum* are studied for the first time. The average sizes of females were significantly higher than those in males ($P < 0.05$). Proportions of morphological characteristics to carapace length in male were significantly higher than those in females ($P < 0.05$). No difference was detected between the ratio of RL/CL of both sexes ($P > 0.05$). The size frequency distribution was normal for either sex, with a peak of occurrence in the size classes ۵, ۶ and ۷ (۴.۰-۵.۵ mm). In females the growth rate of TL in relation to CL was greater than males and constant (isometric growth) in spring and summer, while in males a decreasing rate (negative allometric) in each two seasons of year was observed. Therefore, as expected, the growth rate of W in relation to CL for female sex was greater in spring and summer. Condition factor was higher in female shrimps (۱.۵۶) than males (۱.۵۲) ($P > 0.05$). On monthly based analyses, variations in the condition factor were similar for both sexes, and minimum value was observed in winter. Asymptotic length (L_{∞}), growth rate (k) and maximum life span estimated of males were ۶.۱ mm, ۰.۶۱ per year and ۳.۴۳ years; those for females were ۶.۶۲ mm, ۰.۷۱ per year and ۳.۱۷ years respectively.

کلمات کلیدی:

Growth, Decapoda, freshwater shrimp, condition factor index

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