The Length-Weight Relationship and Condition Factor (K) of Carangoides *Chrysophory* in the Waters of Hormozgan Province

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Abstract

The length-weight relationship of (*Carangoides chrysophory*) in the waters of Hormozgan province were studied by sampling a monthly of 30-40 pieces of fish for the period March 2014- March 2015. Some 376 fish of this species were studied biometrically. The mean total length and total weight were 43 ± 10.07 cm and 10.87.15 ± 714.07 respectively. The minimum and maximum fish length measured for different month were 25.5 up to 80 cm. The minimum and maximum fish weigh for different months were 198 up to 4350 grams. Analyses of the length and weight indicated that there was a high correlation between the length and weight in this species. The length-weight relationship obtained for this species in the males, females, and combined were $W = 0.0156L^{2.9116}$, $W = 0.181L^{2.8707}$, and $W = 0.0162\ L^{2.9011}$ respectively. Length frequency studies indicated that the highest length frequency of (*Carangoides chrysophory*) were of the lengths 47 up to 51 cm. A t-test indicated that the number b thus obtained was closer to 3 and that this species enjoys isometric growth. The condition factor for (*Carangoides chrysophory*) in the Persian Gulf in Hormozgan province was 1.12. Based on this calculation, the amount of condition factor from April to June increased and then to September decreased.

Keywords: *Carangoides chrysophory*, Length-Weight Relationship, Isometric Growth, condition factor, Persian Gulf

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