## Some parameters of golden mullet *Chelon auratus* (Risso, 1810) population under exploitation in the southeast Caspian Sea - Golestan Province

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## **Abstract**

The present study investigated the growth parameters of the golden mullet, Chelon auratus (Risso, 1810) collected a total of 1327 Specimens in the southeast Caspian Sea of the coast of Golestan province in 2016. The total length and the total weight ranged was from 24.86 to 47.42 cm, 134 to 904 gr in population, 24.86 to 47.34 cm, 134 and 845 gr in males and 86. 24 to 47.42 cm, 134 and 904 gr in females, respectively. In the whole population, the age range of both males and females was determined between 4 and 11 years. The relationship between length and weight in the population (r = 0.94) W = 0.262 2.69TL, in males (r = 0.96) 2.64 W = 0.313 TL and in females (r = 0.74)W = 0.0243.71 TL was obtained. The results showed that almost the growth pattern in the population and both males and females showed a negative allometric pattern and tend to be thin. No significant difference was observed between b values during the study period. The infinite length in the population was 51.89 cm in males and 53.45 cm in females. The results of the present research showed that the populations of this species have significant changes in growth.

Keywords: Chelon auratus, Infinite length, Allometric Growth pattern.