

SOME BIOLOGICAL ASPECTS OF SOME FISHES FROM EASTERN DARINGE / BALAD, IRAQ .

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ABSTRACT

The length – weight relationship and condition factor of twelve freshwater fishes (*Acanthobrama marmid*, *Aspius vorax*, *Barbus grypus*, *B. luteus*, *B. sharpeyi*, *B. xanthopters*, *Carassius auratus*, *Chondrostoma regium*, *Cyprinion macrostoma*, *Cyprinus carpio*, *Liza abu* and *Silurus triostegus*), and reproduction for *B. luteus*, *L. abu*. and *C. auratus* collected from Eastern Daringe region during April 2009 to March 2010 were worked out in the present study.

The growth coefficients (b) for the relation between length and weight for the fish species ranged between 2.780-3.231. The (b) value for *C. auratus*, and *B. sharpeyi* were nearly isometric. The growth in weight for *Cyprinus carpio*, *B. grypus* and *S. triostegus* increased with a rate of less than cubic length, while for the remaining species were more than the cubic length.

Condition factors values were 0.640-1.503. No significant differences between sexes were observed.

Gonads development and spawning periods were found to be differing between the three species. The correlation coefficient between gonads somatic index and condition factor were negative and significant ($p > 0.01$), (0.73995) for *C. auratus* and (0.84844) for *B. luteus*.

The smallest mature male for *B. luteus*, *L. abu*. and *C. auratus* were (90, 93 and 115) mm respectively, and smallest mature female were (96, 67, and 110) mm respectively. These lengths for male and female were differing within stations.

Key words: Eastern dringe, fish, biology, growth, reproduction.