



Environmental effect on growth of *Chelon subviridis* found in Indus River, Sindh-Pakistan

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Abstract

Environmental is one of the major factors effecting the growth of any living organism. Length-weight relation (LWR) and condition factor are the best measures to observe the growth condition and environmental effect on the growth of fish. *Chelon subviridis* is one of the species that move with water from marine to fresh water and faces environmental challenges to grow in a quite different variety of environment. In present investigation 200 specimens of *Chelon subviridis* were collected from Indus River near Thatta Sindh-Pakistan, about 100km from estuarine region. LWR was estimated by formulae $w = aL^b$. The observed Weight (w) and Length (L) was found 54.053 ± 5.5 gm and 16.213 ± 6 cm respectively. The intercept value (a) was calculated 0.11, while the exponent (b) was obtained 2.954. Further, condition factor was found as $K=1.268$. The present data reveals and ideal isometric growth in the freshwater while there is a little environmental effect. The present investigation suggests that the *Chelon subviridis* fish would be ideal for culture in the freshwater system.

Keywords: *Chelon subviridis*, Condition factor, estuarine fishes, Growth condition, Length-weight relation.