

Age and growth analysis of the chub,



In this study, the population structure, growth parameters and condition of chub, *Squalius squalus*, from the Assino Creek, a tributary of the River Tiber, were investigated. A total of 1311 specimens were caught monthly from March 2008 to May 2009 by electrofishing. Total length ($TL \pm 0.1$ cm) and weight ($W \pm 0.1$ g) were recorded; age estimation was based on scalimetry and sex was determined by macroscopic observation of the gonads. Age composition ranged from 0+ to 11+ . Total length varied from a minimum of 4.1 cm to a maximum of 48.8 cm, for a weight of 0.5 g and 1233.0 g, respectively. Length-weight regression was $\log 10W = -2.201 + 3.127\log 10TL$ for males and $\log 10W = -2.273 + 3.190\log 10TL$ for females. Previous growth was determined with back-calculation from scale measurements using the non-linear Body Proportional Hypothesis. Theoretical length growth was estimated with von Bertalanffy's model. Condition was evaluated by relative weight. In Italy there are few available data about the biology of *Squalius squalus*: the aim of this study was therefore to fill this lack of information by investigating some important aspects of the growth of the population in Assino Creek.

Auteurs du document : L. Pompei, A. Carosi, G. Pedicillo, E. Rocchini, M. Lorenzoni

Obtenir le document : EDP Sciences

Mots clés : length-weight relationship, back-calculation, von Bertalanffy's parameters, relative weight, relation taille-poids, rétro-calcul, paramètres de von Bertalanffy, poids relatif

Thème (issu du Text Mining) : SCIENCES EXACTES SCIENCES HUMAINES, MILIEU NATUREL

Date : 2011-04-05

Format : text/xml

Source : <https://doi.org/10.1051/kmae/2011011>

Langue : Anglais

Télécharger les documents : <https://www.kmae-journal.org/10.1051/kmae/2011011/pdf>

Permalien : <https://www.documentation.eauetbiodiversite.fr/notice/age-and-growth-analysis-of-the-chub0>

Evaluer cette notice: