Growth and biometrics of the Gilthead sea bream *Sparus aurata* (Linné. 1758) on the coast of Kabylia: region of Tigzirt province of Tizi-Ouzou.

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Abstract

This work which relates to the study of growth and biometrics, is an essential tool for a better monitoring of the stocks of the Gilthead sea bream *Sparus aurata* on the coast of Kabylia: region of Tigzirt province of Tizi-Ouzou. The results obtained show that the annual growth of S. aurata is 3,4 cm (all sexes combined) while the growth parameters calculated by the Von Bertalanffy equation are established as follows: $L\infty=79,95$ $K=0,049$ and $t_o=-2,3$. Our estimates show that *S. aurata* would reach a weight of 165g to 22cm in total length after 3 years. The size-weight allometry relationship that we established shows that the Gilthead sea bream has an isometric growth proportional to the cube of the length. Regarding biometrics, the analysis of metric characters by the method of least squares made it possible to follow the relative growth of certain parameters of the body which prove acceptable because the value of the correlation coefficients is always greater than 0, 90.

Keywords: Growth, biometrics, *Sparus aurata*, Tigzirt.