

FLORES GOMEZ VICTOR STIVE. “Estimación de edad y crecimiento del pejerrey *Odontesthes bonariensis*, mediante la fórmula de Von Bertalanffy en cuatro zonas del Lago Titicaca”.

ABSTRACT

Age and growth of pejerrey *Odontesthes bonariensis* was researched on four Zones of Lake Titicaca: North Zone, Puno Bay, South Zone and Lake Minor, realized between June of 2008 and May 2009. The biometrics samples proceed of Commercial catch. The length composition was analyzed monthly. Modal groups, media length of catch, range of exploited to introduce in FCVB in each zone, first was used the Taylor's , model (1959) to determine L_{∞} , it was located in software FiSAT II ELEFAN I application (PAULY 1987, GAYANILO, SPARRE & PAULY 2005) so the growth coefficient was estimated too. To adjust of FCVB, the t_0 was estimated with the FORD (1933) & WALFORD (1946) model. Into of the results, in the analysis of length composition have been determinate of three to six cohorts, the media lengths of catch were very low in Lake Minor and low is South Zone with 21,7 cm and 21,9 cm of total length, it show us that to exist under fishing of youth fishes, with a round of 50% in both zones; the recruitment toke part with hard pulses in June (Puno Bay), in February (North Zone), in March (South Zone) and in January (Lake minor). The growth formulas of Von Bertalanffy was estimated to each zone these were

$L_t = 52,63 (1 - e^{-0,19(t+0,084)})$ to Puno Bay, $L_t = 52,63 (1 - e^{-0,20(t+0,08)})$ to North Zone,

$L_t = 52,63 (1 - e^{-0,23(t+0,054)})$ to South Zone and $L_t = 52,63 (1 - e^{-0,4(t+0,066)})$ to lake Minor. The results show the pejerrey is a fish of quickly growth, of long life and it has been adaptive very good to environmental condition of Lake Titicaca.