

Abstract

In 'runted' populations of *Tilapia zilli* positive correlations were found between maturation stages and the following: gonadosomatic index, gonad weight, fish weight and fish length. The minimum size at maturity was 9.0 cm in males and 11.0 cm in females. The mean fecundity in the 'stunted' females was 2359 eggs and it increased with length (L) weight (W) and depth (D) of the fish. There was, however, no correlation between fecundity and egg size. The results indicated that growth in this 'stunted' *T. zilli* population was not isometric. The relative condition factor (K_n) which approached one indicates good condition.