

ABSTRACT

The fecundity of female senatorial scallop *Chlamys senatoria* was determined in relation to its shell length (SL) and total weight (TW). The twenty samples used were collected from Gigantes Islands, Carles, Iloilo, central Philippines during the month of June 2013. The shell length and total weight of the samples were 51 - 88 mm and 27.18 - 102.40 g, respectively, with a fecundity of 846,304 — 4,129,760 eggs per female. Fecundity had a linear relationship with the SL ($R^2= 0.783$) and TW ($R'= 0.752$). Moreover, the fecundity per unit length was 15,322 - 46,929 eggs/mm SL. In terms of weight, it was 19,356 - 55,011 eggs/g TW. The best parameter for estimating fecundity seemed to be in terms of SL.

Key words: *Chlamys senatoria*, senatorial scallop, fecundity, shell length, total weight, spawning period