



Aspectos reproductivos de Anodonta Luteola Lea 1858 (Unionoida: Unionidae) en Cañas, Guanacaste, Costa Rica [

2017

text (article)

Analítica

Reproductive aspects of *Anodonta luteola* were studied. Between May 2014 and April 2015, samples were collected from a pond culture of tilapia (*Oreochromis niloticus*). Sex was determined by smears of the gonad. The sex ratio was calculated by dividing the number of females by males, and Chi-square test was used to determine their significant differences. It was determined that *A. luteola* is dioecious, and sex ratio was 1.21: 1 male / female. However, the Chi-square test showed no significant difference in the proportion 1: 1 ($X^2 = 3.112$, $p > 0.05$). Females were classified as pregnant and non-pregnant. The condition index as $CI = \text{fresh meat weight} / (\text{height} \times \text{diameter length})$ was calculated $\times 1000$. In addition, the meat yield was calculated. According to the results, this species spawns throughout the year. Spawning peaks were observed during the months of June, August, October, March and April. Higher temperatures marked the major peaks of spawning. The condition index showed no correlation with any of the development stages of demibranchs of females. The meat yield ranged between 47% and 51%

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