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## Biología reproductiva del pargo *Lutjanus inermis* (Perciformes: Lutjanidae), en el Pacífico Central Mexicano

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Reproductive aspects and information on the effect of fishery activities over this species stock are scarce, despite the imperative need of effective protection and resource management programs. To support the possible establishment of closed seasons and catch levels for the area, our study aimed to evaluate the spawning season of the Golden snapper (*Lutjanus inermis*). For this, fish caught by artisanal fisheries in the Navidad, Tenacatita and Chamela bays (Jalisco, Mexico) were sampled monthly from 1999-2008, and analyzed sex ratios, spawning season and size at first maturity. A total of 311 (53.1%) females and 275 (46.9%) males were caught, and the observed sex ratio was 1:0.88. The total length range was 14.4-37.0cm and total weight range from 48-575g. The length at first maturity was 23.9cm TL for females and 23.6cm TL for males. The gonadosomatic index showed two principal reproductive periods in the year (February-April and September-November), when the largest number of mature gonads were observed. Ovaries were of asynchronic development type and seven oocyte development stages were identified. Testicles showed lobular development and spermatozoa were observed in the center of the cysts and in the collecting ducts. It is important to mention that our results support the current suitable exploitation of this species in the area.

Palabras clave: Lutjanidae, sex ratio, sexual maturity, maturation stages, gonadosomatic index

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