



Castro, R.G. & F. Arreguín Sánchez (1997). Mortality and stock assessment of the brown shrimp, *Penaeus aztecus* (Crustacea:Penaeidae), in the northwest Gulf of Mexico. *Revista de Biología Tropical*, 45(3): 1075-1083.

Mortality and stock assessment of the brown shrimp, *Penaeus aztecus* (Crustacea:Penaeidae), in the northwest Gulf of Mexico

Refugio G. Castro & Francisco Arreguín Sánchez

Fishing mortality of *Penaeus aztecus* was estimated off Tamaulipas, Mexico Gulf. Monthly age structure and fishing effort data for the 1974-1980 period, and cohort analysis by the virtual population analysis technique were used. Catchability estimates indicate higher values for the first maturity age, fishing mortality increases with age, with an asymptotic tendency after 8-9 months of age, $F=0.5$ (1/year). F variance also increases with age. Population size has interannual variations because of recruitment. The monthly cohort suggests a stable situation for the stock during this period.

Para obtener copia del documento contacta con el autor (farregui@ipn.mx) o con el personal de la biblioteca (bibliocicimar@ipn.mx).