ABSTRACT

DESRITA. Bioecology Sumatran River Sprat fish (*Clupeichthys goniognathus*, Bleeker 1855) in Inlet Koto Panjang Reservoir at Kampar, Riau Provinci. Under direction of RIDWAN AFFANDI and M. MUKHLIS KAMAL.

Sumatran river sprat fish (*Clupeichthys goniognathus*, Bleeker 1855) is an economic fish inhabiting in the Koto Panjang reservoir Kampar, Riau. The aim of this research was to assess the condition of habitat, food habits, growth and reproduction of *C. goniognathus*. The method used in this research was analytical description. Fish caught with "langgai kelambu" in five location namely Muara Takus, Gunung Bungsu I, Gunung Bungsu II, Tanjung I, and the Tanjung II located in the inlet of Koto Panjang reservoir. Samples were collected from April to August 2010. *C. goniognathus* is a carnivore fish with a main food is *Branchiopodopsis* sp. This species high are in accordance with the number of fish catched in these location, indicating Tanjung II as a feeding ground. The highest value condition factor in the Gunung Bungsu I. Sex ratio for the matured fish is 1:1.24. The male size of the first maturity is 40.38 mm and 40.27 mm for females. Spawning took place throughout the year with peak in July. The spawning ground this fish is in Gunung Bungsu I. Reproductive potential of about 162-926 oocytes.

**Key words**: Sumatran river sprat, Growth, Food habit, Reproduction