

Kepadatan populasi dan pertumbuhan kerang darah *Anadara antiquata* L. (Bivalvia: Arcidae) di teluk Sungai Pisang, Kota Padang, Sumatera Barat

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Abstrak

Kepadatan dan pertumbuhan kerang darah *Anadara antiquata* L. di kawasan Teluk Sungai Pisang Kota Padang, Sumatera Barat telah dilakukan dari Maret sampai Desember 2004. Kerang *A. antiquata* dikoleksi dengan metoda sistematik sampling. Lokasi pencuplikan kerang *A. antiquata* dibagi atas tiga strata. Masing-masing strata dibagi atas 3 stasiun berdasarkan kedalaman.

Hasil penelitian menunjukkan bahwa kepadatan tertinggi kerang *A. antiquata* ditemukan di stasiun 1 strata III yaitu 1.8 ind./m² dan kepadatan terendah di stasiun 3 strata I yaitu 0.9 ind./m². Laju pertumbuhan kerang *A. antiquata* yang tertinggi ukuran 3 cm yaitu $0,064 \pm 0,043$ cm/ind./15 hari dan yang terendah ukuran 5 cm yaitu $0,009 \pm 0,011$ cm/ind./15 hari dengan persamaan korelasi $Y=0,087 \pm 0,0165X$; $r=0,976$.

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The population density and growth of the cockle *Anadara antiquata* L. Pelecypoda in Pisang River bay area Padang city, west Sumatera. The research has been done from March to December in 2004. The cockles *A. antiquata* were collected with systematic stratified method. The cockle *A. antiquata* collection site were divided three strata. The each strata were divided three station based on the water depth.

Results of the research showed that the highest density of the cockle *A. antiquata* was found at station 1 strata III (1.8 ind./m²) and the lowest density at the station 3 strata I (0.9 ind./m²). The highest growth rate of *A. antiquata* was the length 3 cm (0.064 ± 0.043 cm/ind./15 day) and the lowest growth rate was the length 5 cm (0.009 ± 0.011 cm/ind./15 day) with correlation similarity $Y=0.087 \pm 0.0165X$; $r=0.976$.