ABSTRAK

Lobster laut (*Panulirus sp*) adalah udang berduri yang hidup di air laut yang berukuran lebih besar dibandingkan dengan jenis udang – udang lainya. Hubungan panjang-berat juvenile spiny lobster memberikan suatu petunjuk tentang kondisi biologis lobster. Tujuan dari penelitian ini mengetahui jenis, panjang, berat dan hubungan panjang-berat juvenile spiny lobster di perairan Pantai Teluk Penyu Cilacap. Metode survei lapang ini menangkap langsung juvenile spiny lobster dengan penyelaman pada 3 titik stasiun. Perairan pantai Teluk Penyu Cilacap terdapat tiga jenis juvenile spiny lobster yaitu lobster hijau Pasir (*P. homarus*) dengan ukuran rata-rata 8,8 mm, 4,9 g, komposisi jenis 73, 50 %. Lobster mutiara *(P. ornatus*) dengan ukuran panjang-berat rata-rata 10,2 mm, 4,3 g, komposisi jenis 20, 60 % dan lobster bambu (*P. versicolor*) dengan ukuran panjang-berat rata-rata 10,5 mm, 3,7 g, komposisi jenis 5,9%. Hubungan panjang-berat Juvenile spiny lobster (*Panulirus* sp) di perairan pantai Teluk Penyu Cilacap adalah pola pertumbuhan allometrik negative (b<3).

Kata Kunci: juvenil spiny lobster, panjang-berat.

ABTRACT

Marine lobster (*Panulirus* sp) is spiny lobster that lives in seawater and the size is larger than other group of shrimp. Length-weight relationship of juvenile spiny lobster informs a biological condition of the lobster. The purpose of this study were determine the species, length, weight and length-weight relationship of juvenile spiny lobster in coastal of Teluk Penyu Cilacap waters. The survai method was catch directly juvenile spiny lobster by diving at three site stasions. In Teluk Penyu Cilacap coastal waters were catched three species of juvenile spiny lobster namely *P. homarus* with length and weight of 8,8 mm and 4,9 g, species composition was 73,50%. An average lengt and weight of *P. ornatus* was found 10,2 mm and 4.3 g, composition 20, 60 % and length-weight of *P. versicolor* was obtained 10,5 mm and 3,7 g, species compotion was 5,9 %. Growth patterns of juvenile spiny lobster (*P. homarus* , *P. ornatus* and *P. versicolor*) in coastal waters of Teluk Penyu Cilacap was negative obtained allometric (b<3).

***Keywords* :** Juvenile spiny lobster (*Panulirus* sp.); length-weight.