

INTISARI

Penelitian ini bertujuan untuk mengamati aspek biologi, dan reproduksi ikan banyar yang didaratkan di Pelabuhan Perikanan Pantai Morodemak, Jawa Tengah. Contoh ikan dikumpulkan dari hasil tangkapan nelayan mini purse seine pada bulan April-Juni 2019. Sampel ikan selanjutnya diukur panjang dan bobot individu, dibedah bagian perut untuk diambil gonadnya, dan dihitung jumlah telur dalam sub sampel gonad. Analisis data dilakukan terhadap hubungan panjang-berat ikan, nisbah kelamin, perkembangan kematangan gonad (TKG), indeks kematangan gonad (IKG), ukuran pertama kali matang gonad, dan jumlah telur tiap gonad pada TKG III dan IV. Hasil penelitian menunjukkan hubungan panjang berat bersifat alometrik negatif, pada ikan betina dengan persamaan $w = 0,038 L^{2,59}$ dan pada ikan jantan dengan persamaan $w = 0,178 L^{2,03}$. Ikan pada TKG III berkisar 27,2-82,5 %, sedangkan TKG IV berkisar 3,6-33,8%. IKG ikan berkisar 0,17-4,75. Jumlah telur ikan banyar di perairan Kabupaten Demak berkisar antara 11.235-40.878 butir. Ukuran ikan banyar jenis betina pertama kali matang gonad adalah 15.2 cm.

Kata kunci: Gonad, telur, banyar, Demak

ABSTRACT

The aim of this study was to observe the biology and reproduction of Indian mackerel landed at the Fishery Port of Morodemak coast, Central Java. Fish samples were collected from the fishermen catches that operated one day trip of purse seine in April-June 2019. Fish samples were then measured by individual lengths and weights, dissected the abdomen for gonadal extraction, and calculated the number of eggs contained in the gonad sub-sample. Data analysis was performed on the relationship of fish length-weight, sex ratio, development of gonad maturity level (GML), gonad maturity index (GMI), the first size of gonad maturity, and number of eggs per gonad in TKG III and IV. The results show that the length weight relationship was negative allometric, female fish with the equation $w = 0.038 l^{2.59}$ and in male fish with the equation $w = 0.178 l^{2.03}$. Fish at GML III ranged from 27.2 to 82.5%, while GML IV ranged from 3.6 to 33.8%. Fish GMI ranged from 0.17-4.75. The number of male Indian mackerel eggs in the waters of Demak regency ranged from 11,235-40,878 grains. The size of the first female gonad mature was 15.2 cm.

Keywords: Gonad, egg, Indian mackerel, Demak