

Intisari

Penelitian ini bertujuan untuk mengetahui hubungan panjang-berat dan faktor kondisi nila (*Oreochromis niloticus*) di Rawa Jombor, Kabupaten Klaten. Pengambilan sampel dilakukan setiap dua minggu sekali mulai bulan Maret hingga Agustus 2016. Sampel nila berjumlah 600 ekor (230 ekor jantan dan 370 ekor betina) yang ditangkap menggunakan jala. Setiap sampel nila diukur panjang total dan berat tubuhnya. Pembedahan dilakukan pada seluruh sampel untuk mengamati jenis kelamin nila. Analisis data meliputi distribusi panjang dan berat, hubungan panjang-berat, dan faktor kondisi. Hasil penelitian menunjukkan bahwa nila jantan memiliki panjang total berkisar antara 8,9-30,0 cm dan betina 9,0-25,5 cm. Nila jantan memiliki berat antara 12,3-514,1 g dan betina 12,9-352,8 g. Nila jantan dan betina memiliki pola pertumbuhan bersifat isometrik dengan hubungan panjang-berat nila jantan dan betina masing-masing mengikuti persamaan $W=0,017L^{3,016}$ dan $W=0,019L^{2,97}$. Nilai faktor kondisi relatif (Kn) nila betina berkisar antara 0,516-1,632 sedangkan pada nila jantan berkisar antara 0,703-1,323.

Kata Kunci: faktor kondisi, hubungan panjang-berat, isometrik, nila, Rawa Jombor

Abstract

The aim of this research was to find out the length-weight relationship and condition factor of Nile tilapia (*Oreochromis niloticus*) habitat in Rawa Jombor. Fish samples were collected biweekly from fishermen which catch using cash net from March to August 2016. There were 600 individual fish consisting of 230 males and 370 females. The samples measured their individual length and weight, then their belly was dissected to observe their sex. The data were collected namely individual length, weight and sex. The data were analyzed to determine length and weight distribution, length-weight relationship, and condition factor. The result showed that total length of the male fish was ranged 8,9-30,0 cm and the female was ranged 9,0-25,5 cm. Weight of the male fish was ranged 12,3-514,1 g and the female was ranged 12,9-352,8 g. Both of male and female fish have isometric growth model with equation $W=0,017L^{3,016}$ and $W=0,019L^{2,97}$. Tilapia in Rawa Jombor has a good condition ranged in 0,703-1,323 for the male and 0,516-1,632 for the female.

Key word: condition factor, isometric, L-W relationship, Nile tilapia, Rawa Jombor.