

ABSTRAK

Ikan gabus (*Channa striata*, Bloch. 1793) merupakan salah satu ikan spesies asli yang hidup di Waduk PB. Soedirman. Jaring yang digunakan dalam penelitian ini yaitu jaring insang. Tujuan dilakukannya penelitian ini yaitu untuk mengetahui laju eksploitasi dan nilai mortalitas dan aspek pertumbuhan spesies asli ikan gabus (*Channa striata* Bloch, 1793) di Waduk PB. Soedirman. Metode yang digunakan dalam penelitian ini yaitu metode survei, dengan teknik pengambilan yaitu teknik *purposive random sampling* dan dianalisis dengan FISAT II. Penelitian ini dilaksanakan pada Bulan November, April, dan Juni 2021. Hasil penelitian ini diperoleh tangkapan ikan gabus jantan 47 ekor dan betina 17 ekor, dengan ukuran panjang ikan gabus jantan 18-42,4 cm, dan berat 2,57-587 g, sedangkan ikan gabus betina memiliki ukuran panjang 24,5-52 cm dan berat 24,5-1269 g. Hubungan panjang berat ikan gabus jantan yaitu $W = 146.9178$ dan betina $W = 291.936$. Hasil perhitungan terhadap nilai b dan faktor kondisi ikan gabus jantan yaitu 2,4575; 1,218 dan betina 3,0826; 1,221. Laju pertumbuhan ikan gabus jantan yaitu $L_t = 48.3 (1 - e^{-1.5(t+0.01)})$ dan betina $L_t = 54.6(1 - e^{-0.51(t+0.02)})$. Hasil yang didapatkan nilai panjang maksimum (L_{∞}) ikan gabus jantan yaitu 48.3 dan betina 54.6, sedangkan nilai koefisien pertumbuhan (K) yang diperoleh ikan gabus jantan yaitu 1.5 dan betina 0.51. Untuk nilai mortalitas total, mortalitas alami, dan mortalitas penangkapan ikan gabus yaitu (1,78), (1,4), dan (0,38). Laju eksploitasi ikan gabus 0,21 Sedangkan Kualitas air dalam Waduk PB. Soedirman masih dalam kondisi yang layak bagi habitat ikan gabus.

Kata Kunci : *Channa striata*, Bloch 1793, Wd. PB Soedirman, Laju Eksploitasi, Laju Pertumbuhan, Laju Eksploitasi

ABSTRAC

Snakehead fish (*Channa striata*, Bloch, 1793) is one of the native species of fish that lives in the PB Reservoir. Sudirman. The nets used in this study are gill nets. The purpose of this study was to determine the rate of exploitation and the value of mortality and aspects of the growth of the native species of snakehead fish (*Channa striata* Bloch, 1793) in the PB Reservoir. Sudirman. The method used in this study is a survey method, with a sampling technique that is purposive random sampling and analyzed by FISAT II. This research was carried out in November, April, and June 2021. The results of this study obtained that 47 male snakehead fish and 17 female snakehead fish caught, with male snakehead fish length 18-42.4 cm, and weight 2.57-587 g, while the female snakehead fish has a length of 24.5-52 cm and a weight of 24.5-1269 g. The relationship between length and weight of male snakehead fish is $W = 146.9178$ and female $W = 291.936$. The results of the calculation of the value of b and the condition factor of the male snakehead fish are 2.4575; 1.218 and 3.0826 females; 1,221. The growth rate of male snakehead fish is $L_t = 48.3 (1-e^{-1.5(t+0.01)})$ and female $L_t = 54.6(1-e^{-0.51(t+0.02)})$. The results obtained that the maximum length value (L_∞) of male snakehead fish was 48.3 and female was 54.6, while the growth coefficient value (K) obtained by male snakehead fish was 1.5 and female was 0.51. The values for total mortality, natural mortality, and fishing mortality of snakehead fish are (1.78), (1.4), and (0.38). The exploitation rate of snakehead fish is 0.21. While the quality of water in the PB Reservoir Sudirman is still in proper condition for the snakehead fish.

Keyword : *Channa striata*, Bloch 1793. *Reservoir Soedirman, growth rate, exploitation rate.