

## *Intisari*

### STUDI POPULASI IKAN MANGUR (FAMILI CYPRINIDAE) DI SUNGAI SEMPOR KALURAHAN DONOKERTO KABUPATEN SLEMAN

Ikan mangur adalah nama lokal dari kelompok ikan mahseer dalam famili Cyprinidae yang ditemukan di Sungai Sempor, Kalurahan Donokerto, Kapanewon Turi, Kabupaten Sleman. Ikan mangur di Sungai Sempor telah dilindungi secara *in-situ* dengan peraturan desa. Tujuan penelitian ini adalah untuk mengetahui distribusi panjang dan berat, hubungan panjang dan berat, faktor kondisi, kelimpahan populasi dan kelimpahan relatif ikan mangur. Sampel diambil dari Sungai Sempor pada periode Oktober hingga Desember 2022. Ikan yang ditangkap diukur panjang dan berat, serta diamati jenis kelaminnya. Data kemudian dianalisis menggunakan *Microsoft Excel*. Hasil penelitian menunjukkan bahwa diperoleh 8 kelas panjang dan berat ikan mangur di Sungai Sempor. Kelas panjang terdiri dari rentang 2,1-5,2 cm; 5,3-8,4 cm; 8,5-11,6 cm; 11,7-14,8 cm; 14,9-18 cm; 18,1-21,2 cm; 21,3-24,4 cm dan 24,5-27,6 cm. Kelas berat terdiri dari rentang 0,2-26,3 g; 26,4-52,5 g; 52,6-78,6 g; 78,7-104,8 g; 104,9-131 g; 131,1-157,2 g; 157,3-183,3 g dan 183,4-209,5 g. Struktur populasinya sebagian besar ukuran anakan atau usia muda dengan panjang kelas berkisar 2,1-5,2 cm ditemukan sebanyak 29 ekor. Hubungan panjang-berat ikan mangur di Sungai Sempor menunjukkan pola pertumbuhan yang bersifat isometrik yaitu pertumbuhan panjang sebanding dengan pertumbuhan berat. Faktor kondisi ikan mangur diperoleh berkisar 0,47-2,7 dengan rerata sebesar 0,95. Ikan mangur di Sungai Sempor memiliki kelimpahan relatif 18% dan rerata kelimpahan populasi sebesar 2 ind/m<sup>2</sup>.

Kata Kunci : faktor kondisi, kelimpahan, mahseer, panjang berat, populasi, Sungai Sempor

## *Abstract*

### POPULATION STUDY OF MANGUR FISH (FAMILY CYPRINIDAE) IN THE SEMPOR STREAM DONOKERTO VILLAGE SLEMAN REGENCY

Mangur fish is the local name of the mahseer fish group in the Cyprinidae family which is found in the Sempor Stream, Donokerto Village, Kapanewon Turi, Sleman Regency. Mangur fish in the Sempor Stream have been protected in-situ by village regulations. The purpose of this study was to determine the distribution of length and weight, the relationship between length and weight, condition factors, population abundance and relative abundance of mangur fish. Samples were taken from the Sempor Stream from October to December 2022. The length and weight of the fish caught were measured, and their sex was observed. The data was then analyzed using Microsoft Excel. The results showed that there were 8 classes of length and weight of mangur fish in the Sempor Stream. The long class consists of a range of 2.1-5.2 cm; 5.3-8.4cm; 8.5-11.6cm; 11.7-14.8cm; 14.9-18cm; 18.1-21.2cm; 21.3-24.4 cm and 24.5-27.6 cm. The heavyweights comprise the 0.2-26.3 g range; 26.4-52.5 g; 52.6-78.6 g; 78.7-104.8 g; 104.9-131 g; 131.1-157.2 g; 157.3-183.3 g and 183.4-209.5 g. The population structure is mostly the size of juveniles or young age with a class length ranging from 2.1-5.2 cm found as many as 29 individuals. The length-weight relationship of mangur fish in the Sempor Stream shows an isometric growth pattern, namely the growth in length is proportional to the growth in weight. The condition factor for mangur fish ranged from 0.47 to 2.7 with an average of 0.95. Mangur fish in the Sempor Stream had a relative abundance of 18% and an average population abundance of 2 ind/m<sup>2</sup>.

**Keywords :** condition factor, abundance, mahseer, length weight, population, Sempor Stream