

Intisari

Penelitian ini bertujuan untuk mengetahui Biologi reproduksi ikan daringan (*Mystus nemurus*) hasil tangkapan di badan sungai Sungai Sawur, Kecamatan Mantingan, Ngawi. Sampel ikan dikumpulkan dari hasil tangkapan nelayan yang menggunakan setrum. Pengumpulan sampel ikan dilakukan dari bulan Juli hingga November 2016. Sampel ikan dikumpulkan setiap bulannya tergantung hasil tangkapan. Tiap individu contoh ikan diukur panjang, berat tubuh, dan berat gonad serta diidentifikasi jenis kelamin dan tingkat kematangan gonadnya. Data yang dianalisis meliputi sebaran panjang, berat, tingkat kematangan gonad, indeks kematangan gonad, ukuran pertama matang gonad (L_m), dan fekunditas. Hasil pengamatan menunjukkan panjang ikan daringan berkisar antara 5,0 – 13,7 cm dan kisaran berat 1,8 – 16,8 gram. Ikan daringan di Sungai Sawur memiliki nilai nisbah kelamin 1:2,2. Tingkat kematangan gonad III dan IV ditemukan paling banyak pada bulan September–November. Diameter telur ikan TKG IV berkisar 0,52 – 0,78 mm, terdapat satu modus persebaran sehingga ikan daringan termasuk *single spawner* dengan fekunditas berkisar 23.285–30.625 butir. Ikan daringan diperkirakan pertama kali matang gonad pada panjang 10,5 cm. Berdasarkan ukuran ikan yang tertangkap, Sungai Sawur dapat dikategorikan sebagai *feeding ground*.

Kata kunci : Gonad, ikan daringan, matang, *Mystus nemurus*, reproduksi, Sungai Sawur

Abstract

This purpose of this research was to determine the reproduction aspects of river catfish (*Mystus nemurus*) that caught in the Sawur river, Subdistrict Mantingan, District Ngawi. Fish sample was collected from the fishermen by using electric stun gear. Fish sampling was conducted monthly from July to November 2016. Each individual sample was measured their length, weight, gonade size and sex. The data was analyzed namely the distribution of length and weight, gonadal stage of maturity, index of gonadal maturity, the first length maturity (Lm), and fecundity. The result showed the length of fish was distributed from 5.0 to 13.7 cm and the weight was distributed from 1.8 to 16.8 g. The sex ratio of river catfish was shown result 1:2,2. Gonadal maturity stage III and IV were found mostly in September to November. The diameter of fish eggs at stage IV were found at ranges from 0.5 to 0.7 mm, there was just a single mode of egg distribution, so that can be concluded as single spawner with fecundity in the range of 23285-30625 units. The first length of river catfish maturity was estimated at 10.5 cm long. According to the fish's size, this location (Sungai Sawur) was categorized as feeding ground.

Keyword : Gonad, maturity, *Mystus nemurus*, reproduction, river catfish, Sawur river