

ABSTRAK

Nurhanidah, 4172220010.(2021). Studi Morfometrik dan Meristik Ikan Limbat (*Clarias nieuhofii*) di Sungai Aek Siantona Mandailing Natal Sumatera Utara.

Penelitian ini bertujuan untuk mengetahui ciri morfometrik dan meristik ikan Limbat (*Clarias nieuhofii*) jantan dan betina, perbedaan morfometrik dan meristiknya, karakter morfometrik yang berkontribusi paling berpengaruh terhadap panjang total tubuh limbat, serta parameter fisik-kimia habitatnya. Penelitian dilaksanakan bulan di Sungai Aek Siantona Aek Marian Mandailing Natal Sumatera Utara pada bulan Maret-Juni 2021. Sebanyak 60 ekor sampel (jantan=30, betina=30) digunakan untuk pengukuran morfometrik dan meristik, yang kemudian dianalisis menggunakan analisis regresi berganda metode stepwise dan uji-T. Pengukuran suhu, kekeruhan, pH dan oksigen terlarut dilakukan untuk parameter fisik-kimia habitat. Berdasarkan hasil pengukuran karakter morfometrik didapat rata-rata panjang total limbat jantan $20,51 \pm 2,70$, dan rata-rata panjang total betina $16,16 \pm 1,53$. Perhitungan karakter meristik pada ikan Limbat yaitu D 68-70; P I, 8-9; A 50-53; V 5-6; C 10-12. Hasil analisis regresi linier ganda menunjukkan bahwa terdapat 2 karakter berupa panjang standar, dan panjang sirip punggung berkontribusi paling berpengaruh terhadap panjang total jantan, dan 3 karakter berupa panjang standar, panjang preventral, panjang sirip dada yang berkontribusi terhadap panjang total betina. Sedangkan uji-T menunjukkan bahwa terdapat 18 karakter dari 21 karakter morfometrik yang diamati berbeda signifikan antara limbat jantan dan betina. Ikan Limbat di Sungai Aek Siantona berdasarkan standar mutu kualitas air mempunyai kondisi fisik- kimia yang baik dan layak.

Kata kunci: Ikan Limbat (*Clarias nieuhofii*), morfometrik, meristik, Sungai Aek Siantona.

ABSTRACT

Nurhanidah, 4172220010.(2021). Morphometric and Meristic Study of Slender Walking catfish (*Clarias nieuhofii*) in the Aek Siantona River, Mandailing Natal, North Sumatra.

This study aims to determine the morphometric and meristic characteristics of male and female of *Clarias nieuhofii*, the morphometric and meristic differences, the morphometric characters that most contribute to the total length of *Clarias nieuhofii* body, and the physico-chemical parameters of their habitat. The research was carried out on the Aek Siantona River, Aek Marian Mandailing Natal, North Sumatra in March-June 2021. A total of 60 samples (males=30, female=30) was used for morphometric and meristic measurements, which were then analyzed using stepwise multiple regression analysis and T-test. Measurements of temperature, turbidity, pH and dissolved oxygen were carried out for the physical-chemical parameters of the habitat. Based on the results of morphometric character measurements, the average total length of male and female of *Clarias nieuhofii* was 20.51 ± 2.70 and 16.16 ± 1.53 , respectively. The calculation of meristic characters in *Clarias nieuhofii* is D 68-70; P I, 8-9; A 50-53; V5-6; C 10-12. The results of multiple linear regression analysis showed that there were 2 in the form of standart length, and dorsal fin length that contributed the most to the total lenght of male, and 3 characters in the form of standart length, preventral length, and pectoral fin length that contributed to the total of female. While the T-test showed that there were 18 characters out of 21 morphometric characters that were observed to be significantly different between male and female of *Clarias nieuhofii*. Physical and chemical conditions of fish habitat in the Aek Siantona River based on water quality standards have good and proper conditions.

Keywords : *Clarias nieuhofii*, morphometric, meristic, Aek Siantona River.

