

10<sup>th</sup> Euro-Global Summit on

# Aquaculture & Fisheries

October 08-09, 2018 | London, United Kingdom

## Feeding habits, length-weight relationship and condition factor of *Chrysichthys nigrodigitatus* (Lacepède, 1803) from Ogun River, Nigeria

Adeosun F I, Odulate D O, Idowu A A, Ayorinde B J O and Saba A O  
Federal University of Agriculture, Nigeria

This study evaluates the feeding habits, length-weight relationship and condition factor of *Chrysichthys nigrodigitatus* from Ogun River, Nigeria. Samples were collected for four months (February to May, 2013) and analyzed for length-weight relationship, condition factor and stomach contents. Standard lengths of *C. nigrodigitatus* ranged from 8.38-41.61 cm with a mean of 20.79±5.88 cm while the weights ranged from 24.12 g to 273.61 g with mean of 143.51±66.12 g. Length class 11.0-13.99 cm and 41-43.99 cm were the most and least frequently encountered with percentage frequency of 26.67% and 0.67%. Least squares regression of the transformed data gave an exponent b of 1.18, a of 0.68 with straight line equation  $\text{Log } W = \text{Log } 0.6821 + 1.1822 \text{ Log } L$ . A significant positive linear relationship existed between body weight and standard length ( $r=0.80$ ). Condition factor ranged between 0.14 and 12.44 with a mean of 3.97±2.92. Size class 8-10.99 cm had the highest mean condition factor of 8.92±2.4 cm which ranged from 2.25-12.44 cm. A total of twenty eight stomachs (18.67%) were empty and diatoms, followed by green algae, appeared to be the most abundant food items accounting for 42.62% and 19.7% by number as well as 19.97% and 17.7% occurrence, respectively. The study concludes that *C. nigrodigitatus* demonstrates an overlapping feeding pattern and thus contributes to baseline information, not only, on the trophic status but, for conducting future studies on the species. The study presents a baseline data for the trophic status of the species in Ogun River.

adeosunfi@yahoo.com