

## **Biometrics and Dietary Studies of *Citharinus citharus* in the Lower Niger River in Kogi State, Nigeria**

**Authors :** Adeyemi, Samuel Olusegun

**Abstract :** Biometrics and dietary habit of *Citharinus citharus* in the lower Niger River area of Kogi State were studied between October and December, 2010. A total of 120 fish sampled were used for the study. The total length, standard length and weight were taken for each fish sample for the estimations of length-weight relationship using the formula  $W = aL^b$  and transformed to  $\log W = \log a + b \log L$ . Stomach contents were analyzed by frequency of occurrence method. The standard length of males, females and combined sexes ranged between 6.8 - 16.5, 7.3 - 14.3 cm, 6.8 - 74.2 (cm) respectively, with  $b$  - values of 3.0963, 3.174 and 3.1382. The condition factor ranged from 2.04 - 2.80, 1.88 - 2.86 and 1.88 - 2.86 respectively. The food and feeding habits shows that the fish feeds mainly sand grain (25.83%), mud (24.16%), plant parts (12.50%), insect part (2.50%), algae (12.50%) and unidentified items (5.00%). *C. citharus* in the lower Niger area of Kogi State could be termed to an omnivore. River Niger could be said to be suitable for growth and survival of the fish species *C. citharus*.

**Keywords :** length-weight, sexes, stomach content, feeding habits, plant materials

**Conference Title :** ICSRD 2020 : International Conference on Scientific Research and Development

**Conference Location :** Chicago, United States

**Conference Dates :** December 12-13, 2020