

Length-Weight relationship and condition factor of *Channa aurantimaculata* (Musikasinthorn, 2000) studied in a riparian wetland of Dhemaji District, Assam, India

Authors:

**Banjit Bhatta¹ and
Mrigendra Mohan
Goswami².**

Institution:

1. Department of Zoology,
Dhemaji College, Dhemaji-
787057 (Assam).
2. Department of Zoology,
Gauhati University, Guwahati
- 781014 (Assam).

Corresponding author:
Banjit Bhatta.

ABSTRACT:

Present study reports the length-weight relationship, condition factor and relative condition factor of *Channa aurantimaculata* (Musikasinthorn, 2000), a hole dwelling snakehead endemic fish species (Goswami *et al.*, 2006, Vishwanath and Geetakumari, 2009) of a riparian wetland habitat of Dhemaji district, Assam. Length-weight relationship, condition factor and relative condition factor of the species was evaluated during the feeding cycle (December - March/April) in the year November 2008 to October 2009. The relative growth coefficient (b) values for male was found to be 4.18 and for female was 2.65, the condition factor (K) value was 1.29 ± 0.27 for male and 1.66 ± 0.28 for female, relative condition factor (Kn) value 1.05 ± 0.42 in male and 1.00 ± 0.40 in female were observed. The coefficient of correlation (r) in both the sexes exhibit allometric growth (negative in female and highly positive in male).

Keywords:

Channa aurantimaculata, L-W relationship, condition factor, Dhemaji district