

## **Reproductive profile of *Cirrhinus mrigala* and suggestion for restoration (Hamilton, 1822) from the Yamuna river, India**

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**ABSTRACT :** *Cirrhinus mrigala* is a member of Indian major carp group. The species is of commercial significance due to its aquaculture potential and high consumer preference. Studies were undertaken during the period August 2011 to July 2012 from the Yamuna river at Allahabad, India. The age composition of *C. mrigala* varied from 0+ to 10+ age group in the length ranged from 16.8 to 94.3 cm. According to age, proportion of male was higher than female in 0, 1+ and 2+ age group but Chi-square values were not significant. Sex ratio of male fishes was higher than female in 22.1-28.0 cm, 46.1-52.0 cm and 70.1-76.0 cm size groups. Higher proportion of female was observed in the stock, sex ratio of male and female was 1:1.05 and Chi-square value was not significant. It is struggling with *C. carpio* and *L. calbasu* for feeding and breeding ground. Presently it is very necessary to make a policy for restoration of this species in the Yamuna river.

**Key Words:** *Cirrhinus mrigala*, Yamuna river, reproductive profile, sex ratio.