

# SEX RATIO AND EXPLOITATION STRUCTURE OF *LABEO CALBASU* (HAMILTON) IN THE TRIBUTARY OF THE GANGA RIVER SYSTEM (GHAGHARA RIVER)

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**ABSTRACT** : Theoretically, the expected sex ratio of males and females is 1:1. The sex ratio is very important to the reproduction of a population. The fish samples were obtained at random during the December 2003 to November 2004. The specimens of *Labeo calbasu* (Hamilton) varying between the 1+ to 6+ age groups. The sex ratio of male was higher than female in 3+ and 6+ age groups, while female was higher than male in 2+, 4+ and 5+ age groups. Chi-square values were varied from 0.12 to 1.0 and all values non-significant. In case of 1+ age group male and female both was equal. In the stock, sex ratio of male and female was 1:1.08 which was close to expected sex ratio 1:1. The structure of male was 50.00%, 46.87%, 52.94%, 40.00%, 40.00% and 66.67% in 1+, 2, 3, 4, 5 and 6 age groups, respectively. In the stock, structure of male and female 48.04% and 51.95%. The maximum exploitation was recorded in 1+ age group (35.75%) and minimum (1.67%) in 6+ age group. The abrupt decline was recorded from the age group 2+ to 3+.. After 3+ age group exploitation was decline systematic. Overall lower and middle age groups were highly exploited.

**Key Words** : Ganga river system, Ghaghara, sex ratio, exploitation pattern, age groups.