

LENGTH-WEIGHT RELATIONSHIP OF *MACROBRACHIUM ASSAMENSE PENINSULARE* (TIWARI, 1958), A MINOR FRESHWATER PRAWN IN RAWASAN STREAM OF UTTARAKHAND, INDIA

KOSHAL KUMAR¹, ANITA RAWAT RANA² AND C.B. KOTNALA¹

¹Department of Zoology, Pauri Campus HNB Garhwal University, Srinagar, Uttarakhand, India

²Department of Zoology, Govt. P.G. College Rishikesh, Dehradun Uttarakhand, India

Email- koshalbagelu@gmail.com

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ABSTRACT

Macrobrachium assamense peninsulare (Tiwari, 1958) is a minor freshwater prawn inhabiting foothill river and streams of Uttarakhand. Length-weight relationships of prawn species collected from Rawasn stream during the year 2014 were estimated One hundred and seventy five prawns consist of 84 female and 91 male were taken in present study. The length/weight relationship for male, female and pooled of both sexes was expressed as $\log W = -2.873 + 0.997 \log L$ ($r = 0.870$) and $\log W = -2.203 + 0.841 \log L$ ($r = 0.805$) $\log W = -2.6043 + 0.09381 \log L$ ($r = 0.8536$) respectively. A strong positive relationship exist between the *Macrobrachium assamense peninsulare* length and weight in male and female in the study period ($b < 3$). The b values obtained from the length/weight relationship (LWR) showed that there was a high and significant correlation between the total length and weight after using the t-test for the significance of correlation. The highest correlation coefficient 'r' of 0.87 in male prawn obtained in this study showed that there is strong association between length weight of male as compared to female. This means that the length of the prawn increase the weight increase in the same proportion.

KEYWORDS: Garhwal Himalaya, Length-weight relationship, *Macrobrachium assamense peninsulare*, Rawasan stream.

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