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STUDIES ON LENGTH-WEIGHT RELATIONSHIP AND RELATIVE CONDITION FACTOR OF *NEOMACHEILUS MONTANUS* (Mc CLELLAND) FROM KUMAUN REGION, INDIA.

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ABSTRACT

This study describes the length –weight relationships and relative condition factors of *Noemacheilus montanus* (Mc Clelland) from Kumaun region, India. A total of 224 specimens were caught by using hand picking and scoop net from October 2011 to September 2013. Length-Weight a close relationship was observed in *Noemacheilus montanus.* The value of regression coefficient "b" was obtain 0.966 for males (r = 0.9273), 1.114 (r = 0.8921) for females and 1.046 (r = 0.9005) for the pooled data. It is also noticed that correlation coefficient (r) of male (0.9273) is found to be slightly higher when compared to that of female (0.8921). From this study it is presumed that male gained more weight with increase in length, indicating a better well-being. The Relative Condition Factor (K_n) is calculated as a marker of general well being of fish, relative robustness, plumpness or fatness in numerical terms. The highest value for male fish was 1.445 ± 0.225 in the month of June and 1.091 ± 0.351 for the female in June. Season wise the K_n value were observed high 1.154 ± 0.593 for males and 1.055 ± 0.283 for female fishes in summer. It is also observed that the second next peak values were found during winter for both sexes (For male:-1.180 ± 0.763 and female:-1.025 ± 0.411) which represent good condition of fish on the basis of active feeding and suitability of the environment.

KEY WORDS: *Noemacheilus montanus*. Length-Weight Relationships, Relative Condition Factor, Kumaun Region, India.

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