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Climate Change: Its Impact on Bioresources of the Himalayan Region (CCIBHR-2022) ISBN No- 978-93-95651-65-3

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Effect of Seasonal Change on Natural Population of Campanulotes Bidentatus Comparin Relation to Different Eco-factors

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Abstract

Effect of changing season on natural population of small pigeon louse, Campanulotes bidentatus compar on Columba livia, were investigated from March 2017 to February 2018. Eight pigeons (four males and four females) infested with C. bidentatus compar were maintained in natural captivity in Ramnagar throughout the year. Body of birds are demarcated in nine different regions and all demarcated regions were carefully examined with help of magnifying torch for 5- 10 minute fortnightly. Both Adults (male & female) and all three nymphal instars of lice show fluctuation in their population in different months of year. C. bidentatus compar reaches at their topmost in late summer and early rainy months while their population touches to minimal during winter months. For estimating the effect of different eco-factors on lice population, correlation between mean monthly lice index and four environmental factors (i.e. mean monthly