SEASONAL INCIDENCE OF RED COTTON BUG (DISDERCUS CINGULATUS) AND FRUIT & SHOOT BORER (EARIAS VITELLA) OF OKRA AND THEIR CORRELATION WITH ABIOTIC FACTORS

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Abstract: The field experiment was conducted at the Horticulture farm, Rathindra Krishi Vigyan Kendra, Palli Siksha Bhavana (Institute of Agriculture), Visva-Bharati, at Sriniketan during the period of March 2010 to June 2010 and Okra variety “Parbhani Kranti” were sown in experimental site. The basic objective of the experiment was to find out the seasonal incidence of Red cotton bug (Disdercus cingulatus) and Fruit & shoot borer (Earias vitella) of okra and their correlation with abiotic factors. Experimental findings revealed that the Red cotton bug and Fruit & shoot borer observed to infest the crop at different growth stages and ecological factors played an important role in their fluctuation during the crop growing season as many weather parameters showed their significant effects on population abundances. The incidence of red cotton bug started from 18th standard week i.e. 1st week of May and the maximum population was recorded to the tune of 2.41/plant on 21st standard week during peak fruiting (4th week of May). The peak populations of fruit & shoot borer (6.97%/plant) were recorded on 1st week of June. Multiple regression analyses depicted that contribution of all the abiotic factors to the variations of red cotton bug population was 8.5% and for fruit & shoot borer it was 98.4%.

Keywords: Okra, Seasonal incidence, Disdercus cingulatus, Earias vitella, Abiotic factors

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