SEASONAL INCIDENCE OF MAJOR INSECT PESTS OF BLACKGRAM [VIGNA MUNGO (L.) HEPPER] IN RELATION TO ENVIORANMENTAL FACTORS

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ABSTRACT: Field investigation was carried out entitled as, "Seasonal incidence of major insect pests of blackgram [Vigna mungo (L.) Hepper] in relation to environmental factors" during 'Kharif' season of 2015 at Agriculture Research Farm, Banaras Hindu University, Varanasi, UP. To ascertain the seasonal incidence of Bemisia tabaci, Caliothrips indicus, Maruca vitrata, Aphis craccivora and Empoasca kerri. The result revealed that the highest mean population of Bemisia tabaci, Empoasca kerri was recorded maximum 8.33, 2.20 nymphs and adult/cage at 37th and 36th standard week, Aphis craccivora 17.60 nymphs and adults/10cm twig, Caliothrips indicus 3.33 nymphs and adults/ 10 flower/ plant from each plot at 37th standard week recorded and Maruca vitrata 2.27 larvae/plant recorded at 38th standard week respectively. The correlation coefficient of Bemisia tabaci, Empoasca kerri, Aphis craccivora, Caliothrips indicus and Maruca vitrata was found non significant negatively correlation with maximum temperature, relative humidity (maximum and minimum) and rainfall while, significant negatively correlation coefficient of Bemisia tabaci showed with rainfall and The correlation coefficient of Bemisia tabaci, Empoasca kerri, Aphis craccivora, was found significant positively correlation with minimum temperature while Caliothrips indicus showed non significant positively correlation. And sunshine hours showed correlation coefficient of Empoasca kerri, Caliothrips indicus and Maruca vitrata was found significant positively correlation. Showed non significant positively correlation.

Key words: Environmental factors, population, whitefly, spotted pod borer, nymphs and adults.