

## **INFLUENCE OF WEATHER PARAMETERS ON THE POPULATION DYNAMICS OF WHITEFLY (*BEMISIA TABACI*) IN BT AND NON BT COTTON UNDER MALWA REGION<sup>1</sup>**

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**ABSTRACT:** The present study was conducted at College of Agriculture, Indore, during kharif season of 2012-2013 to record the trend of occurrence and the effect of abiotic factors on whitefly (*Bemisia tabaci* Gennadius) in Bt and non Bt cotton in Malwa region of Madhya Pradesh. The occurrence of whitefly (*B. tabaci* Gennadius) commencement in 31<sup>st</sup> SMW and ended in 3<sup>rd</sup> SMW. It remained active throughout the crop growth periods both in Bt and non Bt cotton. In both crops, the pest population reached its peak with 8.5 and 11.38 individuals / leaf in 38<sup>th</sup> SMW respectively. Significant positive correlation was observed with minimum temperature, morning humidity with whitefly population in both the crops. Regression equation was also indicated that significant positive impact of minimum temperature and morning humidity on whitefly population.

**Keywords:** *Correlation, cotton, population dynamics, weather factors, whitefly, regression*

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