

# **Comparative Efficacy of some Synthetic Insecticides against Leafhopper, *Amrasca biguttula biguttula* (Ishida) and Whitefly, *Bemisia tabaci* (Genn.) on *Bt* Cotton**

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## **ABSTRACT**

Studies were conducted to evaluate some insecticide molecules viz., monocrotophos 36 SL (360 g a.i./ha), acephate 75 SP (562.5 g a.i./ha), imidacloprid 17.8 SL (35.6 g a.i./ha), diafenthiuron 50 WP (300 g a.i./ha), fipronil 5 SC (50 g a.i./ha), dinotefuran 20 SG (40 g a.i./ha), flonicamid 10 WG (15 g a.i./ha) and bifenthrin 10 EC (75 g a.i./ha) as foliar application for their bioefficacy against leafhopper, *Amrasca biguttula biguttula* (Ishida) and whitefly, *Bemisia tabaci* (Genn.) on *Bt* cotton during 2013-14. Among the insecticides evaluated, flonicamid 10 WG had shown greater efficacy against leafhoppers as well as whiteflies up to seven days after spray. Dinotefuran 20 SG and monocrotophos 36 SL were found to be effective in control of leafhoppers after flonicamid 10 WG, while diafenthiuron 50 WP (300 g a.i./ha) and bifenthrin 10 EC which were at par with flonicamid 10 WG in reducing whitefly population. Among all the treatments, highest number of bolls and seed cotton yield was observed in flonicamid 10 WG treated plot which had shown significantly better performance over all other treatments in reducing the pest population.

Key words: *Cotton, flonicamid, insecticide evaluation, leafhopper, whitefly.*