Management of Leafhopper, *Amarasca Devastans* Dist. (Cicadellidae: Hemiptera) through Ecofriendly Insecticides in Cotton under Rainfed Conditions

A Appala Raju, M Sesha Mahalakshmi, C Sandhya Rani and M Adinarayana
Department of Entomology, Agricultural College, Bapatla.

An experiment was conducted to evaluate the inorganic insecticides, botanicals and entomopathogens against leaf hopper (*Amarasca devastans* Dist.) at RARS, Lam, Guntur. The results revealed that among all, the thiacloprid + flubendiamide 480 SC was proven as superior over other treatments in suppressing the leafhopper population with highest per cent reduction over control, with highest yield (18.98 q/ha). But when compared with all other treatments, thiacloprid 48 SC and Azadirachitin 10000 ppm were on par with each other. The entomopathogens *viz*., *Lecanicillium lecanii* and *Beauveria. bassiana* were comparatively less effective in suppressing the leafhopper population infesting cotton. But the natural enemy population was high in entomopathogens and botanical based treatmental plots and were found to be on par with control plot. The seed cotton yield was highest in thiacloprid + flubendiamide 480 SC and thiaocloprid 48 SC together with higher benefit cost ratio.

Keywords: *Botanicals, Cotton, Entomopathogens, Leafhopper, Thiacloprid, Thiacloprid+Flubendiamide.*