

## Field Efficacy of certain Newer Insecticides and their Combination Products against some Major Insect Pests of Rice

D S S R R Raj Kumar, D V Sai Ram Kumar, T Madhumathi and V SrinivasaRao  
Department of Entomology, Agricultural Collge, Bapatla - 522 101, Andhra Pradesh

### ABSTRACT

A field experiment was conducted to evaluate the efficacies of some newer insecticides and their combination products against major insect pests in rice ecosystem at Agriculture College Farm, Bapatla during *Kharif*, 2009-10. Among the newer insecticides flubendiamide 480 SC (0.072%), fipronil 5 SC (0.0063%), ethiprole 10 SC (0.0075%), imidacloprid 17.8 SL(0.0067%), spinosad 48 SC(0.012%), betacyfluthrin 25 EC (0.03%) and their combination products *viz.*, flubendiamide 36% +fipronil 30% 66WG (0.0065%), imidacloprid 40% +ethiprole 40% 80WG (0.02%), imidacloprid+ betacyfluthrin 100 EC (0.006%), betacyfluthrin+chlorpyrifos 262.5 EC (0.08%) were used for the experiment and Chlorpyrifos 20 EC (0.05%) as a standard check. When tested against GLH and BPH, Ethiprole, imidacloprid and betacyfluthrin+ chlorpyrifos were found to be significantly effective by recording highest per cent reduction of populations. Chlorpyrifos, Betacyfluthrin, imidacloprid+ ethiprole and fipronil resulted in moderate efficacies against both the sucking pests. Flubendiamide was found to be the most effective treatment against leaf folder among all the treatments both in terms of per cent reduction of larval population and mean per cent reduction of leaf damage. Chlorpyrifos and spinosad were found to be moderately effective against leaf folder damage. Imidacloprid+ betacyfluthrin, imidacloprid+ ethiprole, ethiprole and imidacloprid were the least effective treatments against rice leaf folder. The plots treated with betacyfluthrin+ chlorpyrifos, ethiprole, fipronil and flubendiamide alone recorded higher grain yields (5.26 t/ha, 5.17 t/ha, 5.05 t/ha and 4.94 t/ha respectively).

**Key words :** Betacyfluthrin + chlorpyrifos, BPH, Ethiprole, Flubendiamide, GLH, Imidacloprid, Leaf folder, Rice.