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### Evaluation of new molecules for management of stem borers on sugarcane

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An experiment was conducted at Regional Sugarcane and Rice Research Station, Rudrur during 2011 and 2012, to assess the chemical control of sugarcane stem borers (*Chilo infuscatellus* and *Chilo sachariphagus indicus*). Seven insecticides namely, Ferterra 4G, Spinosad 45 SC, Acephate 75 SP, Chloropyriphos 20EC, Chloranthriniliprole 18.5 SC, Indoxicarb 14.5 SC, Flubendamide 480 SC and compared with untreated (Check plot) using randomized block design with three replications. Significant differences were noticed among the treatments. The lowest per cent mean cumulative incidence of early shoot borer (11.61) at 45, 60, 90 and 120 days after planting and lowest per cent intensity (1.48) and incidence (1.21) of inter nodal shoot borer was recorded in Chloranthriniliprole 18.5 SC at 0.36 ml/l of water. Further, the same treatment recorded significantly superior cane yield of 85.05 t/ha, while the untreated control recorded 79.01 t/ha. Among the insecticides Chloranthriniliprole 18.5 SC at 0.36 ml/l of water proved superior in checking the stem borer infestation over rest of the insecticides tested.

#### Biography

A. Padmasri is presently working as Scientist (Seed Entomology), Seed Research and Technology Center, ANGR Agricultural University, Hyderabad. She joined as Scientist (Entomology) at RS &RRS, Rudrur during 2006 and involved in testing the efficacy of newer insecticides against early shoot borer in sugarcane and rice stem borer and gall midge. Presently her work is involved in evaluating the novel insecticides and packing materials against stored grain pests in different crops and suitability of the same against the storability of the seed. She was awarded with Junior Research Fellowship by the Indian Council of Agricultural Research during 1997. She was awarded with Hexamer Foundation medal for securing highest OGPA during post graduation in 1999. She was involved in releasing a book on Integrated Pest Management in various crops.

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