# STUDIES ON THE EFFECT OF SELECTED INSECTICIDES ON BRINJAL SHOOT AND FRUIT BORER (*Leucinodes orbonalis*)



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## Abstract

This study intended to find out the effects of insecticides on Brinjal Shoot and Fruit Borer (BSFB). The resurgence of this pest and other pests associated with brinjal was also studied.

Based on the Questionnaire survey among the farmers selected five insecticides were tested in the field with seven replicates, in a Completely Randomized Design compared with untreated control treatment. Laboratory study was conducted to test the efficacy of insecticides on the larva of the BSFB. Damage by the BSFB was assessed by the weight, length and circumference of the fruits and with the number of shoots and fruits affected. Annalysis was done in SAS and compared with Duncan's Multiple Range Test.

Chlorpyrifos was found to have higher efficacy and lesser impact on resurgence of other pests. Red Spider Mites was the most resurged pests in the field in the treatments Acetamiprid and Imidacloprid. In the continuity of present insecticide utilization trend mealy bugs and white flies were identified to have the potential to resurge to Deltamethrin. Carbofuran treatment was ineffective and had most number of affected shoots and fruits. Aphids showed the chances to resurge to Carbofuran. Ladybird beetles were most abundant in the control treatment and moderately found in Carbofuran treatment. Spiders and ants were having predatory activities in the field next to Ladybird beetles. The effect of Carbofuran on the Brinjal Shoot and Fruit Borer and predators was very minimal.

# CONTENTS