

Evaluation of different Insecticides and their Spray Schedules Against Spotted Pod Borer, *Maruca vitrata* on Blackgram

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ABSTRACT

A field experiment was conducted to evaluate the different insecticides and their spray schedules against spotted pod borer, *Maruca vitrata* (Geyer) (Pyralidae: Lepidoptera) on blackgram at Agricultural College Farm, Bapatla during *rabi* 2007-08. Among the chemical schedules (F_1), the profenofos schedule (C_3) recorded the lowest mean number of *M. vitrata* larvae (1.24) and damaged flowers/pods (1.61) per five plants and found effective. Among the spray interval schedules (F_2), the four days interval spray schedule (D_1) was found effective and has recorded the lowest number of *M. vitrata* larvae per five plants (0.80) and mean number of damaged flowers/pods per five plants (0.93). The interaction between the profenofos schedule and four days interval spray schedule *i.e.* C_3D_1 was found effective and has recorded the lowest mean number of *M. vitrata* larvae (0.73) and damaged flowers /pods (0.67) per five plants. The grain yield was highest (1.73 t/ha) in the profenofos schedule and in four days interval spray schedule (1.75 t/ha) as well as in the interaction between profenofos and four days interval spray schedule (C_3D_1 , Profenofos-Chlorpyrifos+Dichlorvos- Novaluron +Dichlorvos at 4 days interval) *i.e.* 2.0 t/ha. However, the BC ratio of profenofos at ten days interval schedule (1: 3.25) was found to be cost effective with profitable returns.

Key words : Blackgram, Insecticides and Spotted pod borer.