

## Evaluation of different insecticides against green semilooper, *Thysanoplusia orichalcea* (Fab.) in soybean ecosystem

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### ARTICLE INFO

**Received** : 03.08.2015  
**Revised** : 28.08.2015  
**Accepted** : 13.09.2015

### KEY WORDS :

Semilooper, Soybean, Spinosad,  
Emamectin benzoate, Fenvalrate, Yield

### ABSTRACT

A field study was conducted during *Kharif* season 2014-15 to determine the efficacy of different insecticides against semilooper *Thysanoplusia orichalcea* (Fab.) in soybean ecosystem in the insectory premises of Agricultural Entomology Section, College of Agriculture Nagpur. Least cumulative average number larvae (0.05/ml) was recorded in treatment of Fenvalerate 20 EC @ 0.50 ml/l ( $T_6$ ) found to be superior compared to other treatments. The next effective treatments were emamectin benzoate 5 SG @ 0.3 g/l ( $T_6$ : 0.06/ml) and also in Spinosad 45 SC @ 0.25 ml/l ( $T_3$ : 0.07/ml), Indoxacarb 15.8 EC @ 0.60 ml/l ( $T_5$ : 0.08/ml) found to be at par with  $T_6$  and  $T_3$ . However, the treatment Neem Oil 2 per cent ( $T_2$ ) recorded 0.78 larvae/ml. Whereas, NSE @ 5 per cent ( $T_1$ : 0.95/ml) and *Beauveria bassiana*  $1 \times 10^8$  CFU @ 4 g/l ( $T_4$ : 0.99/ml) were found to be least effective in reducing larval population/ml. Maximum mean larval population (1.48/ml) was recorded in control (Water spray;  $T_8$ ). Fenvalerate 20 EC @ 0.50 ml/l, Indoxacarb 15.8 EC @ 0.60 ml/l, Spinosad 45 SC @ 0.25 ml/l were found to be most effective treatments which recorded highest yield of 21.05 q/ha, 20.10 q/ha and 19.02 q/ha, respectively. From the seed production point of view Fenvalerate 20 EC @ 0.50 ml/l, Indoxacarb 15.8 EC @ 0.60 ml/l, Spinosad 45 SC @ 0.25 ml/l were most effective in recording highest yield.

**How to view point the article** : Matti, M.V. and Deotale, R.O. (2015). Evaluation of different insecticides against green semilooper, *Thysanoplusia orichalcea* (Fab.) in soybean ecosystem. *Internat. J. Plant Protec.*, **8**(2) : 338-342.

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