

## Effect of biorationals against the thrips, *Scirtothrips dorsalis* Hood infesting chilli

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### ARTICLE INFO

**Received** : 06.02.2016

**Revised** : 21.02.2016

**Accepted** : 03.03.2016

### KEY WORDS :

Biorationals, Thrips, LCI, Yield, Chilli

### ABSTRACT

The present investigation was carried out to test the efficacy of biorationals against thrips, *Scirtothrips dorsalis* Hood on chilli. Field experiments were conducted at farmers holding during September 2009 - February 2010 and November 2009 - April 2010. Among biorationals tested, spinosad 45 SC @ 0.4ml l<sup>-1</sup> and emamectin benzoate 5 SG @ 0.4g l<sup>-1</sup> was found to be superior to the standard check dimethoate 30 EC @ 2ml l<sup>-1</sup> registering the least population of 0.55 and 0.59 / leaf, followed by *Beauveria bassiana* @ 1 x 10<sup>8</sup> spores ml<sup>-1</sup> and neem oil 3 per cent which recorded thrips population of 1.01 and 1.11 / leaf. With regard to leaf curl damage by thrips, spinosad 45 SC @ 0.4 ml l<sup>-1</sup> and emamectin benzoate 5 SG @ 0.4g l<sup>-1</sup> was very effective. Highest dry chilli yield of 1509 kg ha<sup>-1</sup> was registered in spinosad 45 SC @ 0.4ml l<sup>-1</sup>, which was on par with emamectin benzoate 5 SG @ 0.4g l<sup>-1</sup> (1525 kg ha<sup>-1</sup>) with respective additional income of Rs. 30,300 and Rs. 26,400. The highest cost benefit ratio (1:4.30) was obtained in spinosad 45 SC @ 0.4ml l<sup>-1</sup> followed by 1:4.30 in emamectin 5 SG @ 0.4g l<sup>-1</sup>.

**How to view point the article** : Ravikumar, A., Chinniah, C., Manisegaran, S., Irulandi, S. and Mohanraj, P. (2016). Effect of biorationals against the thrips, *Scirtothrips dorsalis* Hood infesting chilli. *Internat. J. Plant Protec.*, **9**(1) : 158-161.

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