



**RESEARCH ARTICLE :**

## Bioefficacy of newer insecticides against onion thrips (*Thrips tabaci* L.) and their effect on ladybird beetle

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**SUMMARY :** A field experiment was conducted at Research Farm of Department of Agricultural Entomology, VNMKV, Parbhani, during *Kharif* 2016, to study bioefficacy of newer insecticides against onion thrips (*Thrips tabaci* L.), their effect on ladybird beetle and onion bulb yield. Nine insecticides including acetamiprid 20 SP @ 20 g. a.i. /ha, emamectin benzoate 5 SG @ 10 g.a.i./ha, fipronil 5 SC @ 50 g.a.i. /ha, flonicamid 50 SG @ 75g a.i./ha, imidacloprid 17.8 SL @ 25 g.a.i. /ha, lamdacyalothrin 5 EC @ 15 g.a.i./ha, spinosad 45 SC @ 73 g.a.i./ha, thiamethoxam 25 WG @ 25 g.a.i./ha were tested along with water spray treatment in RBD with three replication. For management of thrips Spinosad 45 SC @ 73 g. a.i. ha<sup>-1</sup> and fipronil 5 SC @ 50 g. a.i. ha<sup>-1</sup> were the most superior and persistent treatments against thrips as compared to evaluated insecticides followed by lamdacyhalothrin 5 EC @ 15 g. a.i. ha<sup>-1</sup>. Among insecticidal treatment flonicamid 50 SG @ 75 g a.i ha<sup>-1</sup> and spinosad 45 SC @ 73 g a.i ha<sup>-1</sup> were found promising regarding its safety to predators. The highest bulb yield was recorded in spinosad 45 SC @ 73 g a.i ha<sup>-1</sup> (18.03 t/ha) treated plots followed by fipronil 5 SC @ 50 g. a.i. ha<sup>-1</sup> (16.78 t/ha), indicating the significance of thrips management in *Kharif* onion.

**KEY WORDS :**

Bioefficacy, Onion thrips, Spinosad, Flonicamid, Newer insecticides

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