

Efficacy of Pymetrozine 50 WG against brown planthopper *Nilaparvata lugens* (Stal) on paddy *Oryza sativa* L.

■ R. KIRANKUMAR

Department of Entomology, College of Agriculture, BHEEMRAYANGUDI (KARNATAKA) INDIA

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Corresponding author:

Email: kiran.r.cta@gmail.com

ABSTRACT

Efficacy of Pymetrozine 50 WG against brown planthopper of rice *Nilaparvata lugens* was evaluated under field conditions at Agricultural Research Station (AICRIP) Rice at, Siruguppa, Karnataka during *Kharif* 2011 and 2012. New insecticide Pymetrozine 50 WG was tested @200g, 250g, 300g, 350g and 400g a.i/ha against BPH *Nilaparvata lugens* (Stal). Pymetrozine 50 WG @350g a.i/ha found significantly superior during the *Kharif* season of both the year 2011 and 12 and it is at par with Pymetrozine 50WG @400g.a.i/ha. Significant difference in natural enemy population recorded among all the treatments as compared to control. However population built up by natural enemies at 7DAS was at par with control and results revealed that Pymetrozine 50WG @ recommended dose of 350g a.i/ha was quite promising in reducing the population of brown plant hopper without any phytotoxicity symptoms and produced better yield.

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