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Evaluation of thiamethoxam 25 per cent WG against major insect pests of rice (*Oryza sativa* L.)

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ABSTRACT

An experiment was conducted at Regional Agriculture Research Station, College of Agriculture, Waraseoni, Bagalaght, Madhya Pradesh during the 2014-15 to study on the evaluation of Thiamethoxam 25 per cent WG for the management of stem borer (*Scirpophaga incertulas* Walker), leaf folder (*Cnaphalocrocis medinalis* Guenee), gall midge (*Orseolia oryzae* Wood Mason), leaf hoppers *viz.*, green leaf hopper (*Nephotettix virescens* Distant), brown plant hopper (*Nilaparvata lugens* Stal), in rice crop. Thiamethoxam 25 per cent WG used in the experiment was different doses *i.e.* @ 20 g a.i. /ha, 25 g a.i. /ha, 30 g a.i. /ha, 50 g a.i. /ha, and 100 g a.i. /ha, with insecticidal check Imidacloprid 17.8 SL @ 30 ml a.i./ha. Two sprays of insecticides were applied at fifteen days interval. The most effective dose of thiomethoxam 25 per cent WG in controlling the rice insect pests was 50 g. a.i./ha followed by 30 g a.i. /ha and 25 g a.i. /ha. Per cent reduction of insect pests over untreated plot after final sprays was followed this order of efficacy: Thiamethoxam 25 per cent WG @ 20 g a.i. /ha> 100 g a.i. /ha, > Imidacloprid 17.8 SL @ 30 ml a.i./ha.. Highest cost benefit ratio (1:21.69) was observed in thiamethoxam 50 per cent WG @ 20 g a.i. /ha.

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