Volume 10 | Issue 1 | April, 2015 | 106-109

e ISSN-0976-8343 |

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## A CASE STUDY

## Toxicity of newer insecticides against *Leucinodes orbonalis* (Guen.)

## S.S. MUNJE, P.B. SALUNKE AND B.S. BOTRE

Department of Agricultural Entomology, Post Graduate Institute, Dr. Panjabrao Deshmukh Krishi Vidyapeeth, AKOLA (M.S.) INDIA

Email: pankajsalunke75@gmail.com

Article Info: Received: 08.12.2014; Accepted: 26.03.2015

Efforts were made to study the LC<sub>50</sub> values of newer insecticide against brinjal shoot and fruit borer (*Leucinodes orbonalis*) collected from different location of Vidarbha *viz.*, Akola, Amravati, Yavatmal, Washim and Buldhana by using direct spray method carried out in the toxicology laboratory, Department of Agricultural Entomology, Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola during 2011-12. Five insecticides *viz.*, rynaxypyr 20 SC, flubendiamide 480 SC, emamectin benzoate 5 SG, indoxacarb 14.5 SC and spinosad 45 SC were tested for their toxicity to third instar larvae of *Leucinodes orbonalis* (Guen.). The resultant toxicity in terms of LC<sub>50</sub> values obtained for insecticide against different strain were ranged for rynaxypyr (0.127-0.157), flubendiamide (15.551-23.046), emamectin benzoate (0.277-0.351), indoxacarb (2.016-2.457) and spinosad (3.094-4.940) ppm. Rynaxypyr 20 EC and emamectin benzoate 5 SG were found most effective amongst the insecticides tested. Thus, rynaxypyr and emamectin benzoate could be used for management of *Leucinodes orbonalis* and to delay the development of insecticide resistance.

**Key words:** Insecticides, *Leucinodes orbonalis*, LC<sub>50</sub>, Toxicity

How to cite this paper: Munje, S.S., Salunke, P.B. and Botre, B.S. (2015). Toxicity of newer insecticides against *Leucinodes orbonalis* (Guen.). *Asian J. Bio. Sci.*, **10** (1): 106-109.