



STUDIES ON THE EFFECT OF INSECTICIDES

ON

BRINJAL SHOOT AND POD BORER (*Leucinodes orbonalis*. GUEN)

BY

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ABSTRACT.

An experiment was conducted to evaluate , the effectiveness of insecticides, such as Decis, Ekalux, Monocrotophos, Sumicidin and of the botanicals such as Neem oil and Gardenia bud powder solution on the brinjal pod borer, *Leucinodes orbonalis* larvae in the Agricultural Biology laboratory of the Eastern University, Sri Lanka.

All the insecticides and gardenia significantly ($p < 0.01$) reduced larvae of *Leucinodes orbonalis*.

However , the performance of gardenia bud powder was significantly lower than all the insecticides used in the experiment.

The performance of Decis was lower in controlling of this pest, compared to other insecticides . Within the insecticides , Ekalux, Monocrotophos ,sumicidin , were effective in controlling of this pest . There are no significant differences of performance among these three insecticides.

The failure of Decis to control this pest may be attributed to the development of resistance strains in this sampling area where this insecticide has been continuously used by the farmers for the past five years . As an alternative manner, various group of insecticides spraying may leads to achieve better control of this pest.

Neem oil , Neem oil with soap water solution are not effective in controlling of this pest .

Therefore, based on this results, the insecticides such as Ekalux, Monocrotophos, Sumicidin may be recommended to reduce the population of *Leucinodes orbonalis*.

Monocrotophos usage needs highest cost compared to other insecticides while Sumicidin needs lower cost to reduce the above pest.

However, Ekalux and Sumicidin can be recommended to use in alternative manner to suppress the population of *Leucinodes orbonalis*.

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