

Biology of Brinjal Shoot and Fruit Borer, *Leucinodes orbonalis* Guen. under Allahabad conditions

Raginee Srivastava and P Sudha jacob

Department of Plant Protection, Allahabad Agricultural Institute-Deemed University,
Allahabad 211001, India

ABSTRACT

A laboratory experiment was conducted to study the biology and morphometrics of brinjal fruit and shoot borer at the Department of Plant Protection, Allahabad Agricultural Institute-Deemed University, Allahabad. The average incubation period of egg was 4.3 days, larva passed through five instars and total larval and pupal periods were 12.33 and 69.24 days. The pupation took place in the glass jars, soil, muslin cloth, sometimes inside the fruits and on the leaves of the plants. The adult male and female longevity were 1.82 and 3.12 days, with a total live period of 25-34 days. The pre oviposition, oviposition and post oviposition periods were 7.4 hours, 2.43 and 1.26 days respectively. The mean duration from egg to adult stage was 25.87 days. There is variability in the levels of fecundity with an average of 174 eggs/female. Morphometric data for all the stages of the instar were also recorded and presented.

Key words: Biology of *Leucinodes orbonalis*, Brinjal, Morphometrics.