

LEUCINODES ORBONALIS

BRINJAL SHOOT & FRUIT BORER

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Scientific Name: ***Leucinodes orbonalis***

Phylum: **Arthropoda**

Class: **Insecta**

Order: **Lepidoptera**

Family: **Pyralidae**

Main Host: **Brinjal (Egg Plant)**

***Leucinodes orbonalis* is a key pest of eggplant in the Indian subcontinent and southern Asia, causing characteristic symptoms such as “dead-hearts” during the vegetative phase and circular holes plugged with excreta on infested fruits.**

The primary larval hostplant is eggplant or brinjal, *Solanum melongena*.

Three species, viz., *Solanum violaceum*, *S. trilobatum*, and *S. lasiocarpum* were recorded for the first time worldwide as new hosts of *L. orbonalis*, on which the pest was able to complete its life cycle.

Identification of pest:

- . **Eggs: Creamy white eggs**
- . **Larva: Pink in colour**
- . **Pupa: Greyish boat shaped cocoon**
- . **Adult: Medium sized moth. Forewings has black and brown patches and dots on white colour, hind wings are opaescent with black dots**



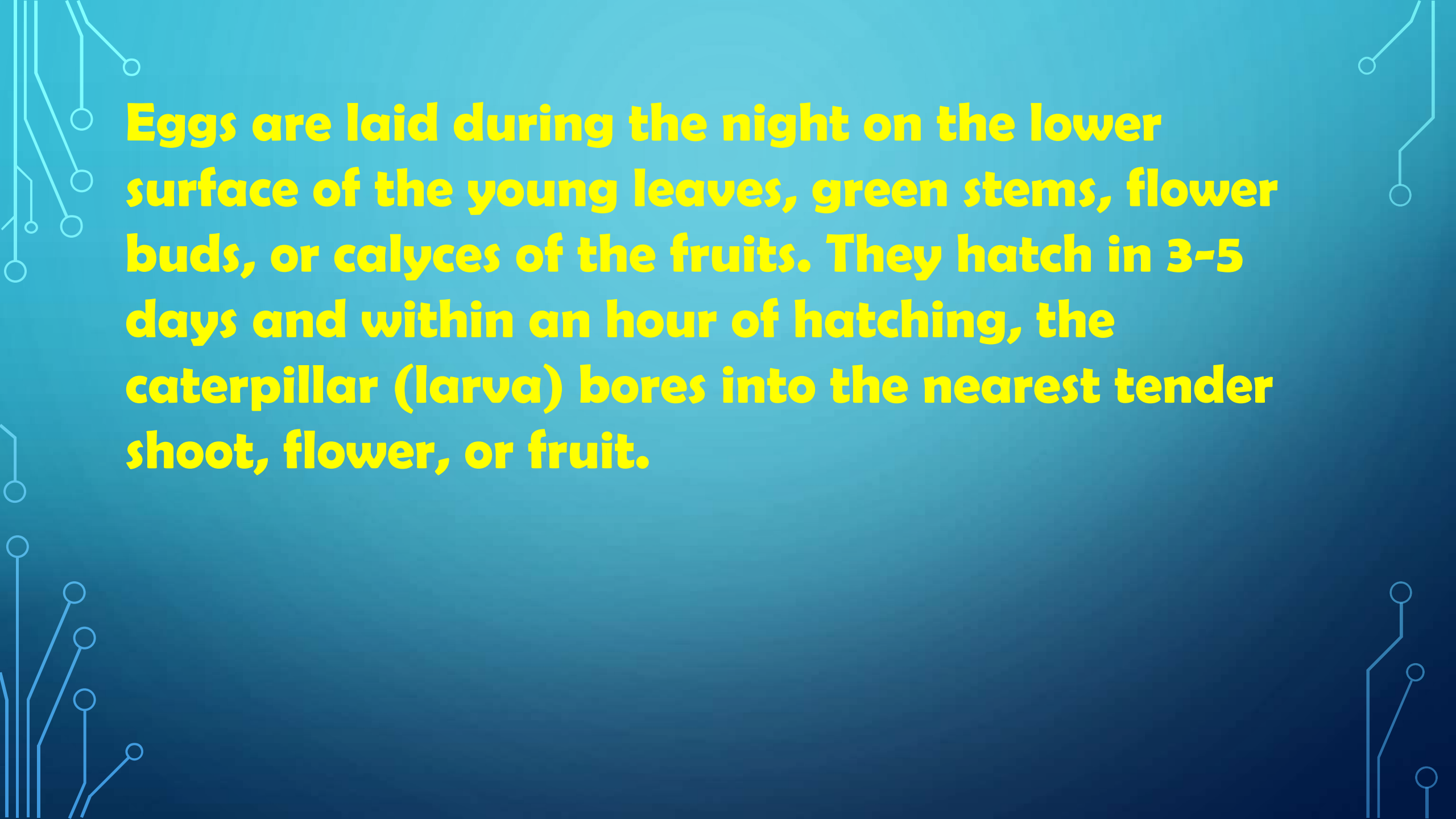
Additionally, *S. insanum*, *S. incanum*, *S. aethiopicum*, *S. melongena*, *S. torvum*, *S. nigrum*, *S. americanum*, *S. macrocarpon* and *S. virginianum* were confirmed that *L. orbonalis* infest fruits of these species with varying degrees of infestation.







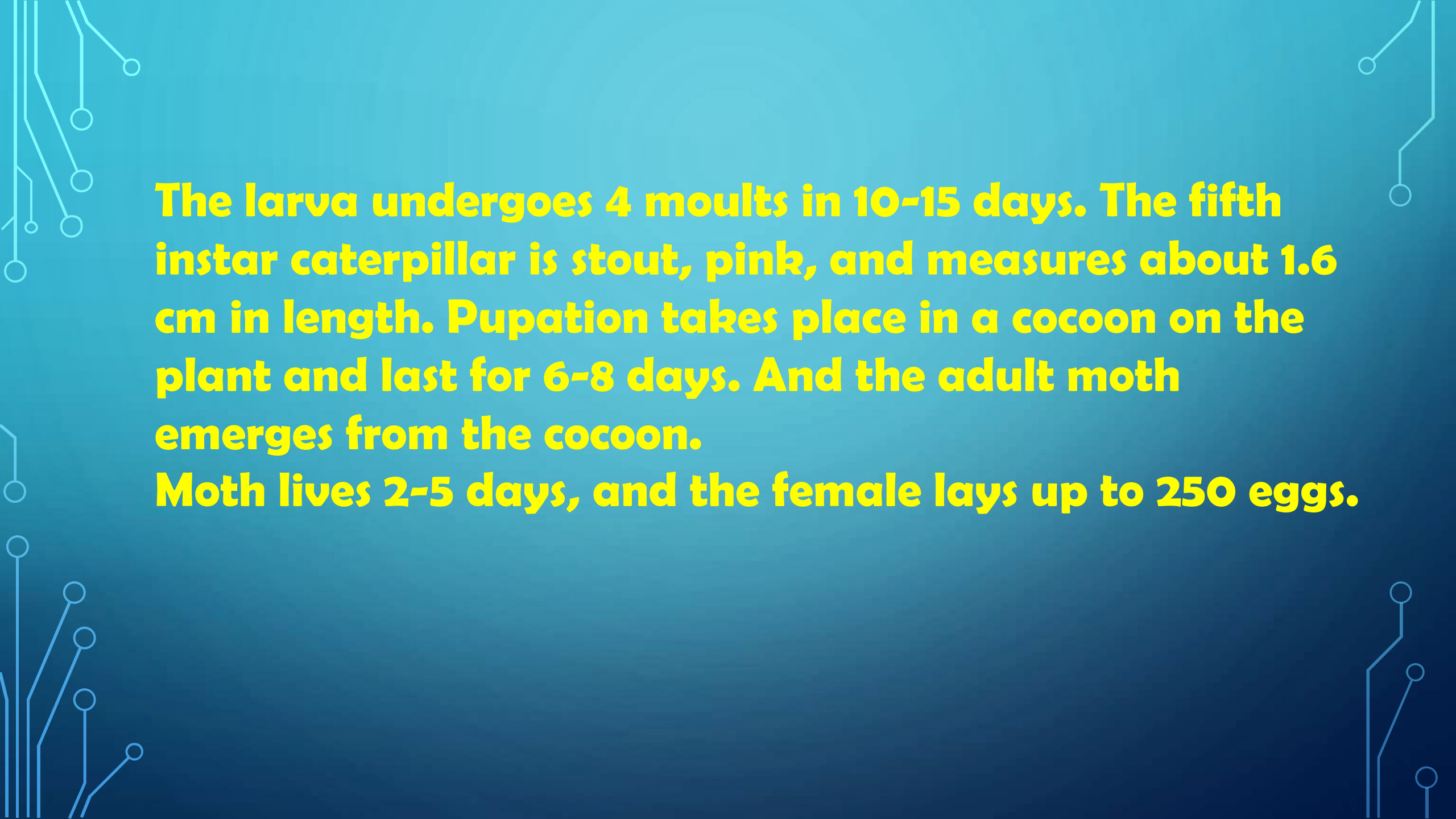
The adult is grey-brown moth, with blackish spots on the dorsum of the thorax and abdomen. The wings are white with pinkish-brown markings and are fringed with small hairs along the apical and anal margins.

The slide features a dark blue background with light blue decorative circuit-like lines in the corners. The text is centered and written in a bold, yellow font.

Eggs are laid during the night on the lower surface of the young leaves, green stems, flower buds, or calyces of the fruits. They hatch in 3-5 days and within an hour of hatching, the caterpillar (larva) bores into the nearest tender shoot, flower, or fruit.



Soon after boring into shoots or fruits, they plug the entrance hole with excreta. In young plants, caterpillars are reported to bore inside petioles and midribs of large leaves. As a result, the affected leaves may drop off.



The larva undergoes 4 moults in 10-15 days. The fifth instar caterpillar is stout, pink, and measures about 1.6 cm in length. Pupation takes place in a cocoon on the plant and last for 6-8 days. And the adult moth emerges from the cocoon.

Moth lives 2-5 days, and the female lays up to 250 eggs.



Types of damage:



REFERENCES:

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2. This article incorporates text from a [free content](#) work. Licensed under CC BY-SA ([license statement/permission](#)). Text taken from [Plantwise *Factsheets for Farmers: Fruit and shoot borer of brinjal - Bangladesh*](#), Md. Rafiquzzaman, Zahidul Islam, M. Anwar Hossain, CABI.
3. TNAU Agritech Portal :: Crop Protection
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