

**Vivekanand College Kolhapur
(Autonomous)**

Department of Botany

B.Sc. II Plant Protection

TOPIC: GRAM POD BORER

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Gram pod borer: *Helicoverpa armigera*

Symptoms of damage:

The young larvae feeds on the chlorophyll of young leaves and skeletonize it.

They feed voraciously on the foliage in early stage, may defoliate the plant and later they feed on flowers and pods.

Identification of the pest:

- **Eggs:** Spherical in shape and creamy white in colour, laid singly
- **Larva:** Shows colour variation from greenish to brown. It has dark brown grey lines on the body with lateral white lines and also has dark and pale bands.
- **Pupa:** Brown in colour, occurs in soil, leaf, pod and crop debris

- **Adult:** Light pale brownish yellow stout moth.
- Forewings are olive green to pale brown with a dark brown circular spot in the centre.
- Hind wings are pale smoky white with a broad blackish outer margin.

Management:

- ❑ Deep summer ploughing
- ❑ Install pheromone traps at a distance of 50 m @ 5 traps/ha for each insect pest.
- ❑ Erect bird perches @ 50/ha.
- ❑ Clip terminal shoots on 100 days of crop growth.
- ❑ Setting of light traps (1 light trap/5 acre) to kill moth population

- Dusting with Chlorpyrifos 1.5 % DP or fenvalerate 0.4% or quinolphos 1.5% @ 25 to 30 kg/ha
- Spray with Chlorpyrifos 1.5 % DP @1200 ml/ha or quinolphos 25 EC @ 1.0 lit/ha.



