INSECT PESTS OF GRAM

GRAM CUTWORM





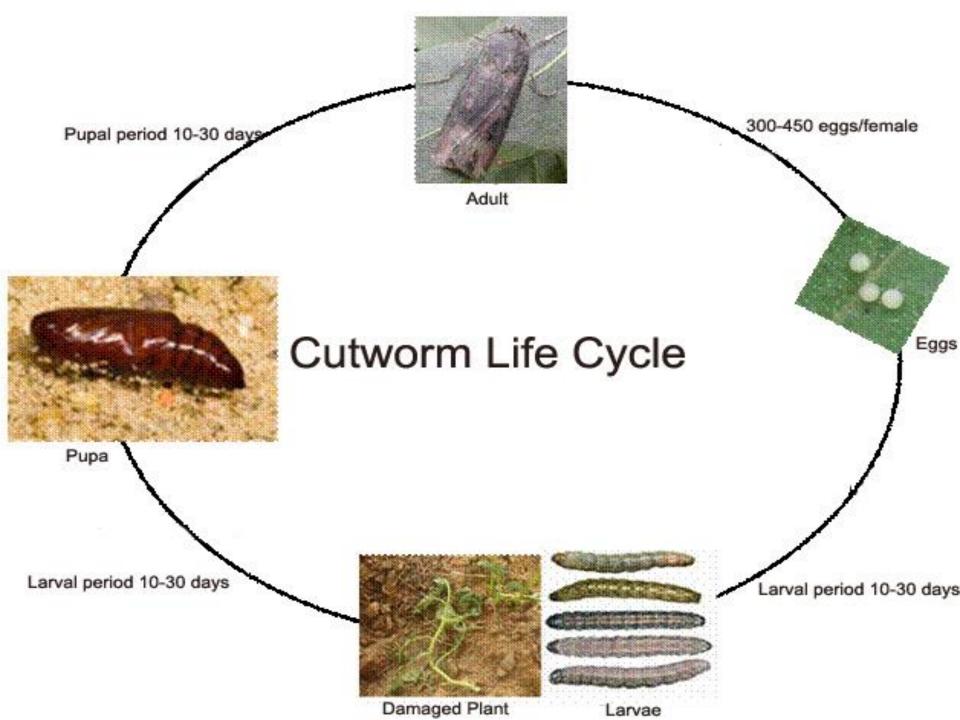
- T.N: Agrotis flammatra
- *Family:* Noctuidae
- Order: Lepidoptera

Identification

- Eggs are yellowish white
- Larvae dark grey in colour
- Adult is a heavy-bodied grayish-brown or wheat colored insect







Life Cycle

- This pest is active from October to April
- The moths appear in October and lay up to 900 eggs on the under surface of leaves, shoot, stems or in soil
- The eggs hatch in one week during summer and in 2 weeks during winter
- Larvae are full-grown in 4-7 weeks and then pupate for 2 weeks in earthen cells in the soil
- The life cycle is completed in 7-11 weeks
- There are generally 2 generations in a year

<u>Damage</u>

- Caterpillars come out from their breeding places at night and become active,
- Cutting down the young plants of gram, just above or slightly below the surface of soil
- The cutaway gram seedlings in the field are indication of its attack





<u>Control</u>

- Hand picking/ hand hoeing will be effective
- It is also controlled by using poisoned bran mash. The bait is placed in small heap in the infested field in the evening
- Trapping the moths by light traps
- Clean cultivation should be done
- The pest is kept under check by enticing birds and insect predators
- Spray Cypermethrin + Monocrotophos EC 500 ml/acre

GRAM POD CATERPILLAR



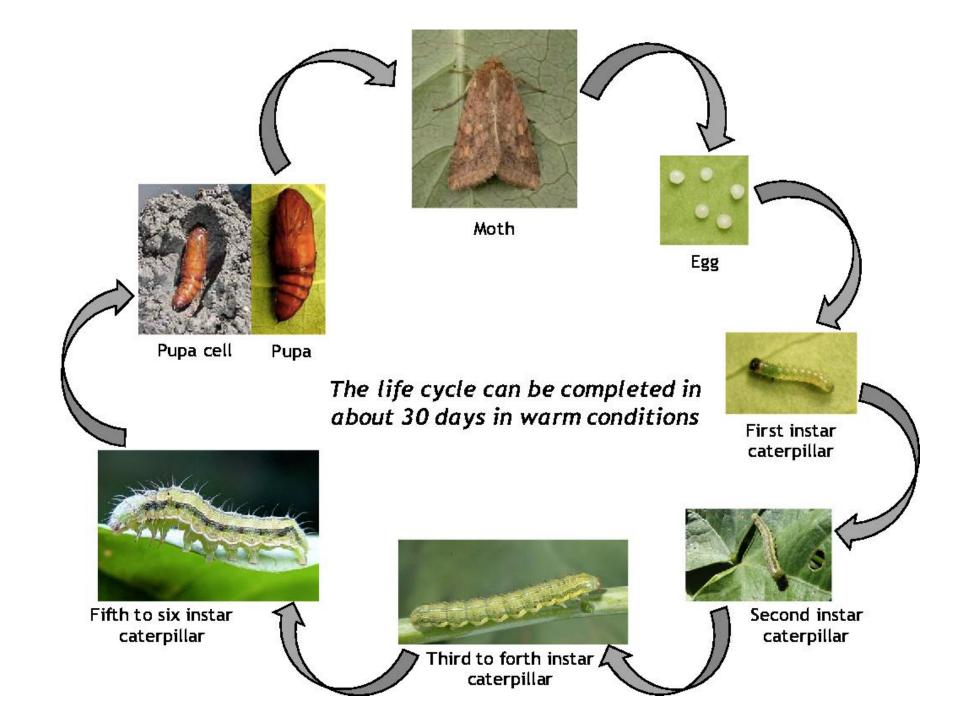




- T.N: Helicoverpa armigera
- *Family:* Noctuidae
- Order: Lepidoptera

Identification

- The gram pod-caterpillar or gram pod-borer is a serious pest of gram and red gram
- The mouth is stoutly built and is yellowish brown
- Caterpillars are greenish with dark broken grey lines along the sides of the body





- The females lay about 500-750 eggs on the tender parts of the plants
- The eggs hatch in one weeks
- Larvae come out and move from pod to pod and are full fed in
 <u>3 weeks</u>
- The full grown larvae come out of the pods and pupate in soil for 2 weeks which prolongs in winter
- There may be 8 generations in a year

<u>Damage</u>

- Larvae feed on the foliage when young and on the seed in later stages
- A single larva may destroy 30-40 pods before it reaches maturity



<u>Control</u>

- The pest can be suppressed by hand picking the caterpillars in the early stages of the attack
- Ichneumonid wasp, larval parasitoid of gram pod-borer should be promoted in the field
- Spray

Profenofos EC 800 ml/acre

Lambda cyhalothrin EC 250 ml/acre