INSECT PEST OF MAIZE & SORGHUM



MAIZE BORER





Taxonomy

• T.N: Chilo partellus

• Family: Pyralidae

Order: Lepidoptera

<u>Identification</u>

• Adults are yellowish-grey in color



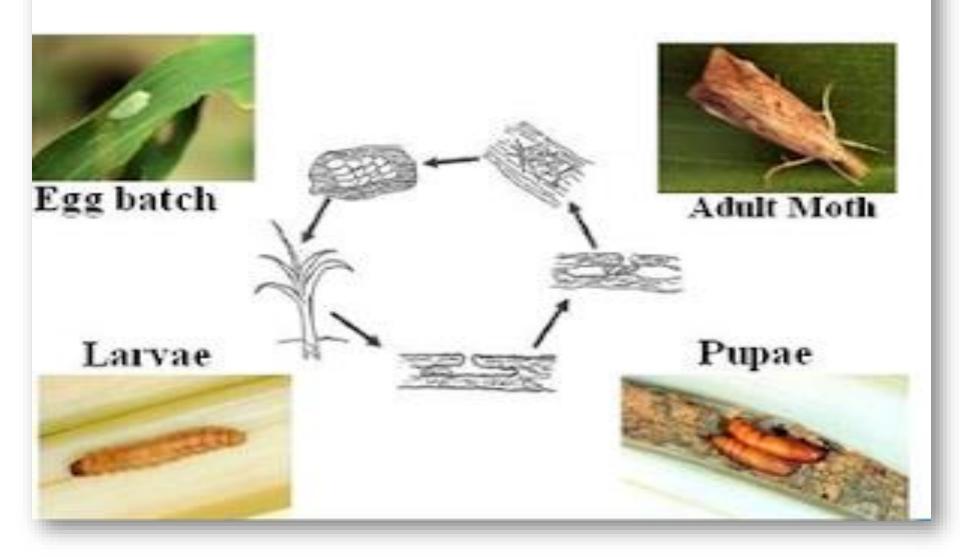
Larvae are dirty grayish white with black head and four

brownish longitudinal stripes

on the back



Life cycle of Chilo partellus



Life Cycle

- The female lays oval and yellowish clusters of eggs on the underside of the leaves
- When the larvae is full grown within 4 weeks it pupates inside the stem after making a hole
- The life cycle is completed in about 3-6 weeks
- There are 5 generations in a year

<u>Damage</u>

- The young larvae firstly feed on the leaves, making a few holes
- Then bore their way downwards through the central whorl and the plant also shows "Dead hearts"
- Young seedlings are more often destroyed by the attack of this pest



<u>Control</u>

- Destroy the weeds, stubbles and other alternate hosts of this pest by ploughing the field after harvest
- Removal and destruction of infested plants, dead hearts and the crop residues
- Trapping the moths by light traps
- *Trichogramma spp*. is the egg parasitoid while *Apanteles spp*. is the larval parasitoid of maize borer
- Use of Carbofuran G 8-10 kg/acre

SORGHUM SHOOT FLY



<u>Taxonomy</u>

• T.N: Atherigona soccata

• Family: Muscidae

• Order: Diptera



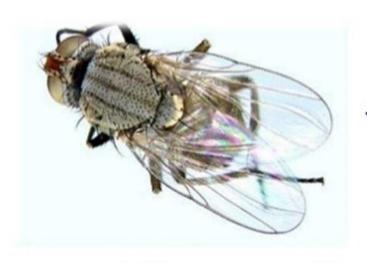
Identification

 The sorghum shoot fly is also known as the sorghum stem fly

- Eggs are white in colour
- Larvae are yellowish brown
- Adults are pale grey with yellowish abdomen



Life Cycle



Shoot fly

Growth stages of shoot fly





Life Cycle

- The female lays flattened, elongate and somewhat boat shaped eggs singly on the underside of the leaves
- After hatching the tiny maggots bore into the stem and feed inside the main shoot
- They may either pupate in the stem or in the soil

<u>Damage</u>

- It attacks on the young seedlings, producing deformed, twisted and dead hearted plants
- The maggots bore into the stem and cut the main shoot and by the time they pupate, the plant is almost dead
- Hence crop yield is reduced





<u>Control</u>

- Grow resistant varieties
- Destruction of attacked plants or plant parts
- Sowing of crop from early June to the 2nd week of July normally escapes the shoot fly attack
- Coating of seed with Imidacloprid WS 5-7 g/kg seed protects the shoot fly attack up to 2 weeks
- Spray Carbosulfan EC 250ml/acre or Carbofuron G 10 kg/acre