

Nature of Damage:

- In early stages 'dead heart' noticed.
- Eggs laid in group covered with milky layer.
- Larva with dark brown head, dirty white body with five violet dorsal stripes.
- Makes a hole, enter inside & feeds on soft tissues & dead heart appears
- Also acts as an internode borer.



Management of Early shoot borer:



Egg parasitoids *Trichogramma chilonis* in field @ 3-5 lac parasitized eggs /ha in suitable installments.



- Trash mulching particularly in ratoon crop should be encouraged.
- Avoid late planting after March.
- Light earthing up at 45 to 60 days after planting.
- Removal of the dead hearts at the ground level.
- Release of Egg parasitoids *Trichogramma chilonis* in field @ 3-5 lac parasitized eggs /ha in suitable installments.
- Mass trapping of male adults with use of pheromone trap @ 25 / ha. Trap should be installed at 30 cm above the crop height.
- Seed treatment with 70 % Imidachloprid 36 gm. or 400 ml Chlorpyrifos 20 SC in 100 lit.. of water for 15 minutes.
- Soil application of granular insecticide Cartap hydrochloride 4G @ 15 kg/ha or Fipronil 0.3 GR @ 25 kg/ha or Chlorantraniliprole 0.4 GR @ 22.5 kg/ha at planting and 60 days after planting.
- Spraying of Chlorantraniliprole 18.5% SC @ 375 ml per ha (0.4 ml/ lit of water).

