

**Crop Protection :: Pest of paddy****II. Main Field Pests****Yellow Stem Borer stemborer: *Scirpophaga incertulas*****Symptom of damage:**

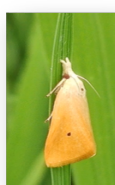
- Presence of brown coloured egg mass near leaf tip
- Larva bores into central shoot of paddy seedling and tiller, causing drying of the central shoot known as “**dead heart**”
- If infestation occurs in grown up plant, the whole panicle becomes dried and known as “**white ear**”
- Affected shoots and panicles could be easily pulled by hand

**Identification of insect pest:**

- **Eggs:** are creamy white, flattened, oval and scale like and laid in mass and covered with buff coloured hairs
- **Larva:** pale yellow with dark brown head
- **Pupa:** White silken cocoon are found inside the stem
- **Adult:**

**Female moth:** Bright yellowish brown; forewings with a black spot.

**Male moth:** Smaller with pale yellow; forewings without black spot

**Dead heart****White ear*****Scirpophaga incertulas*****Egg****Larva****Adult****Larva*****Chilo polychrysus*****Adult*****Sesamia inferens*****Larva****Adult****Management:**

**ETL:** 10% Dead heart symptoms 2% white ear symptoms

- Clip the seedling tips before transplanting to eliminate egg masses.
- Install light trap @ 1 / ha and pheromone trap @ 5 / ac.
- Release egg parasitoid, *Trichogramma japonicum* @ 2cc /ac 3 times at weekly interval.
- Spray Neem seed kernel extract 5% or Azadirachtin 0.03% 400 ml/ac.
- Spray any one of the following insecticides
  - Acephate 75 % SP 267-400 g/ac
  - Carbofuran 3% CG 10 kg/ac
  - Carbosulfan 6% G 6.7 kg/ac
  - Carbosulfan 25% EC 320-400 ml/ac
  - CartapHydrochloride 50 % SP 400 g/ac
  - Chlorantraniliprole 18.5% SC 60 ml/ac
  - Chlorantraniliprole 0.4% G 4 kg/ac
  - Chlorpyrifos 20% EC 500 ml/ac
  - Fipronil 5% SC 400-600 g/ac
  - Fipronil 80%WG 20-25 g/ac
  - Flubendiamide 20% WG 50 g/ac
  - Flubendiamide 39.35% M/M SC 20 g/ac
  - Thiacloprid 21.7% SC 200 g/ac

***Trichogramma japonicum*  
egg card****Egg parasitoid  
(Magnified view)****Light Trap****Pheromone Trap**

- Thiamethoxam 25% WG 40 g/ac