

Insect Pests of Cereals and their Management

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Maize pests

Major insect pests

Pests	Scientific name	Damage
Stem borer	<i>Chilo partellus</i>	10-12%
Cob borer	<i>Stenochroia elongella</i>	15-20%

Management

- Early sowing (1st fortnight of April) of maize and using sorghum as a trap crop 1 row per 8 rows of maize controls cob borer effectively.
- Application of carbofuran 3G @10-15 granules per whorl at 25 DAS is effective against stem borer.
- Spraying of EPN (*Steinernema carpocapse*) @ 5 million/ha or Entomogenous fungus, *Beauveria bassiana* @ 10^8 spores/ml at ear head stage controls stem borer and cob borer effectively



Stem borer pupa



Cob borer damage

Rice pests

Major insect pests

Gundhi bug (40-45% damage)
Rice root aphid } (Meghalaya and Mizoram)
White grub }
Rice hispa (Tripura)
Stem borer } (all the north eastern states)
Leaf folder }

Management

- Clipping off the tips of the rice seedlings and root dipping in 0.02% chlorpyrifos + 1% urea for 3-4 hours before transplanting followed by release of local *Trichogramma* spp. @ 50000/ha reduces stem borer, leaf folder, hispa, gall midge and thrips incidence to the extent of 70%
- Funnel trap with crab bait placed at 1/10 m² area controls gundhi bug effectively
- Application of carbofuran @1.0 kg a.i. in split doses each of 0.5 kg a.i./ha one at the time of sowing and other at 45 DAS gives protection against rice root aphid, stem borer and white grubs under upland conditions.



Stem borer larva



Gundhi bug



Improved crab trap



Root aphid



White grub