



भा.कृ.अनुप – राष्ट्रीय चावल अनुसंधान संस्थान
ICAR - National Rice Research Institute
(An ISO 9001: 2015 Certified Institute)
Cuttack – 753 006, Odisha, India



Agro-Advisory Service

Strategies for Second Fortnight of March 2024

Heavy infestation of yellow stem borer is observed in most of the rice growing areas. Hence, it is advised to take up the following management practices immediately:

- ❖ Place 3 pheromone traps/acre in the rice field for monitoring of the yellow stem borer and leaf folder.
- ❖ Whenever the number of male moths/trap reaches 3 per day, spray or apply any one of the following insecticides:

Spray Azadirachtin 0.15% neem seed kernel based EC formulation @ 800 ml/acre

or

Broadcast granular insecticide Chlorantraniliprole 0.4% GR @4 kg/ acre

or

Cartap hydrochloride 4G @ 10 kg/acre mixing with sand at 1:1 ratio

or

Spray Chlorantraniliprole 18.5% SC @ 60 ml/acre

or

Flubendiamide 480SC (39.35% w/w) @ 20 ml/acre in 200 litre of water

- ❖ Wherever the infestation has just started and egg masses are noticed, farmers are advised to use Tricho cards (*Trichogramma japonicum*) @ 1 card (1cc) per acre. Similar 4 to 5 such releases may be taken up at weekly interval.
- ❖ Farmers are advised to apply nitrogenous fertilizers judiciously to avoid heavy infestation.
- ❖ Collect and destroy egg masses of yellow stem borer wherever possible.
- ❖ Raise level of irrigation water periodically to submerge the eggs deposited on the lower parts of the plant.

- ❖ Use light trap to catch yellow stem borer adults.

1. Transplanted Summer rice

- ❖ If pre-emergence/early-post emergence herbicide was not applied, then apply post-emergence herbicide Penoxsulum 1.02% + Cyhalofop-butyl 5.1% @ 800 ml/acre at 15-20 days after transplanting (DAT) **or** attempt manual weeding at 20 and 40 DAT. In line transplanted rice weeds can be controlled by using finger weeder/cono-weeder/paddy weeder at 20 and 40 DAT.
- ❖ Place 3 pheromone traps with respective lure/acre in the rice field for monitoring of the yellow stem borer and leaf folder. Whenever the number of male moths/trap reaches 4 or 5, spray Azadirachtin 0.15% neem seed kernel based EC formulation @ 800 ml/acre **or** broadcast granular insecticide Chlorantraniliprole 0.4% GR @ 4 kg/acre **or** Cartap hydrochloride 4G @ 10 kg/acre mixing with sand at 1:1 ratio **or** spray Tetraniliprole 200 g/L SC @ 80 ml/acre **or** spray Chlorantraniliprole 18.5% SC @ 60 ml/acre in 200 litre of water.
- ❖ In late transplanted crop apply urea @ 35 kg/acre as first top dressing at 20-25 DAT (tillering stage). For timely transplanted crop apply urea 35 kg along with MOP 11 kg per acre at panicle initiation stage.
- ❖ If infestation of blast disease is noticed, spray Trifloxystrobin 25% + Tebuconazole 50% @ 80 g per acre in 200 litres of water **or** Edifenphos 50 EC @ 200 ml per acre in 200 litres of water or Kasugamycin 3SL @ 500 ml per acre in 200 litres of water.
- ❖ In case of brown spot incidence in the field, apply Carbendazim 12% + Mancozeb 63% WP @ 500 g per acre in 200 litres of water or Propiconazole @ 200 ml per acre in 200 litres of water.

2. Wet direct seeded summer rice

- ❖ Monitoring should continue for stem borer. Whenever the number of male moths/trap reaches 3 or more spray Azadirachtin 0.15% neem seed kernel based EC formulation @ 800 ml/acre or Chlorantraniliprole 0.4% GR @ 4 kg/acre may be applied mixing with sand at 1:1 ratio or spray Chlorantraniliprole 18.5% SC @ 60 ml/acre in 200 litres of water.
- ❖ If pre-emergence herbicides were not applied, to control weeds spray Bispyribac-sodium @ 120 ml/acre at 10-12 DAS or, 2-3 leaf stage of weeds or, Penoxsulum 1.02% + Cyhalofop-butyl 5.1% @ 800 ml/acre at 15-20 DAS in 200 litres of water.
- ❖ If incidence of blast disease is noticed, spray Carbendazim 50 WP @ 200g/ acre in 200 litres of water or Trifloxystrobin 25% + Tebuconazole 50% @ 80 g per acre in 200 litres of water or Edifenphos 50 EC @ 200 ml/acre in 200 litres of water.

- ❖ In case of brown spot incidence, spray Propiconazole 25% EC @ 200 ml/acre or Carbendazim 12% + Mancozeb 63% @ 500 g/acre in 200 litres of water.
- ❖ Farmers are advised to download and use NRRI developed riceXpert mobile App (available in Google Play store) for getting information on all aspects of rice cultivation.

