

Pheromone trapping technology for the management of red palm weevil and Rhinoceros beetle

The use of aggregation pheromone traps is one of the main component in integrated pest management programme of RPW and RB. Mass trapping of adult beetles and weevils using food baited pheromone traps in an infested coconut plantation significantly reduces the infestation levels. The red palm weevil lure (Ferrolure), rhinoceros beetle lure (Rhino lure) and traps are available commercially in private agro firms.

Trap preparation

The traps can be easily prepared by using a five litre plastic bucket. Cut with four windows (1.5 × 5 cm) below the upper rim of the bucket.

Wrap jute sack around the outer surface of the bucket to facilitate the entry of the beetle and weevil in to the trap.

Hang the pheromone lure is to be hung inside of the bucket

Add food bait (200 – 300 g of fresh coconut petiole/ sugarcane pieces) mixed in one litre of insecticidal solution (0.05% carbofuran 3G) in to the bucket.

Mass trapping

The pheromone traps should be placed under the shade of the palm/tree canopy at a height of one meter above the ground.

For mass trapping programme 1 trap/ ha is recommended

The traps should be serviced (discarding the attracted weevils and beetles, replacing the food baits and insecticide solution) every 10 days.

Pheromone lure to be replaced only when most of the lure is exhausted

Community based approach is desired for mass trapping of RPW and RB in coconut plantations

Popularisation of pheromone technology

ICAR-CCARI with assistance from NABARD conducted awareness training programme and field demonstration on use of pheromone traps for management of red palm weevil and Rhinoceros beetle in coconut in various parts of Goa.

✓ Area of implementation

1. Tiswadi- ICAR-CCARI, Old Goa, Goa-Velha, Pillar, Neura, Mandur
2. Ponda – Mardol, Cuncolim, Savai verem
3. Salcete – Arossim,
4. Quepem – Cotomb, Gomvol
5. Sattari- Valpoi

Awarness programme, training, demonstration of pheromone traps and distribution of traps to the farmers

Programme -1

A distribution cum field demonstration on use of pheromone traps of RPW and RB in coconut was organised at Goa - Velha on 8/11/17. The damage symptoms, insect