

Rodent Pest Management in Agricultural Crops

- ❖ Rodents inflict 2 to 18 per cent damage in vulnerable stages of the agricultural crops.
- ❖ In Karnataka *Bandicota bengalensis*, *Mus booduga*, *Millardia meltada*, *Mus platythrix*, and *Tatera indica*, are the major rodent pests in crop lands.
- ❖ Application of the recommended rodenticides at critical periods helps in limiting the rodent population in crop lands and enhances the crop production.



Rodent infestation

- ### Recommended rodenticides
- ❖ Bromadiolone CB (0.25%): 0.005% in bait w/w (@ 10 g bait per burrow)
 - ❖ Bromadiolone RB (0.005%) ready to use wax blocks (@ 1 block per burrow)
 - ❖ Zinc phosphide: 2.0 per cent in baits w/w (@ 10g bait per burrow)
 - ❖ Aluminum phosphide (6%), a burrow fumigant (@ one 12 g tablet per burrow)

Bait preparation	
Pre bait mixture (1 kg)	Poison bait mixture (1 kg)
Ragi = 450 g	Ragi = 450 g
Rice = 450 g	Rice = 450 g
Ground nut oil = 50 g	Ground nut oil = 50 g
Ground nut powder = 50 g	Ground nut powder = 50 g
Rodenticide = No	Rodenticide = 2g Zinc phosphide or 2g Bromadiolone

➤ Mix the above mixture thoroughly in plastic tub with the help of wooden spoon and pack 10g bait mixture in a polythene bag.



Poison bait preparation

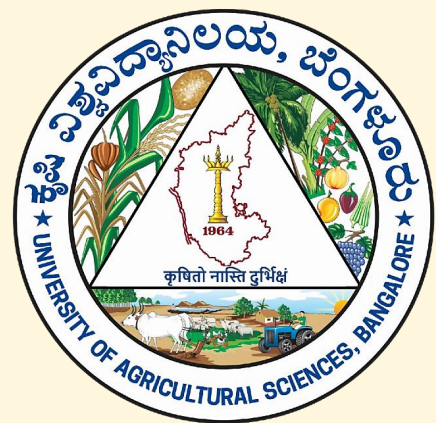
- ### Rodent management schedule
- ❖ **Day 1:** Locate rodent burrows on the bunds and lands. Close all the burrows.
 - ❖ **Day 2:** Place pre bait mixture in reopened /active burrows and close them.
 - ❖ **Day 3:** Prepare poison bait mixture (2% Zinc phosphide) and keep bait deep inside burrows close them.
 - ❖ **Day 5:** Locate dead rodents and bury them.
 - ❖ **After 2 to 3 weeks:** Treat the residual burrows with 2% bromadiolone bait mixture or wax blocks based on the situation.



Placement of poison baits



Control Success



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