

Management of Rodents in Storage

What are rodents?

Rodents are rats and mice. The three most important rodent species in rice storage are

- Black rat or House rat (*Rattus rattus*),
- Norway rat or Common rat (*Rattus norvegicus*), and
- House mouse (*Mus musculus*).



Why is managing rodents in storage important?

Feeding on stored produce

Rats consume about 25 gm of food per day and mice eat approximately 3-4 gm per day. They contaminate a lot of the stored produce with urine, feces, hair and pathogenic agents. Infested batches often have to be declared unfit for human consumption. As rodents mainly feed on the embryo, they cause particular damage to the nutritional value and germination ability of seeds.

Damage to material and equipment

Rodents damage tarpaulins, bags, pallets, sprayers, and to the store itself (cables, doors). These often lead to subsequent damage like Produce leaking out of bags or containers, bag stacks collapsing, sparks or fire from short circuits, silos and warehouses may subside or even collapse as a result of being undermined, and Damaged drainage canals around a store.

Management options

Preventive measures

The most essential factors for the occurrence of rodents are:

- Sufficient supplies of food
- Protected places in which to build burrows and nests
- Hiding places
- Access to produce

Good store management and preventive measures taken as part of an integrated control program can help to deal with these factors.

Keeping Rodents Out

The requirements of preventive rodent control must be taken into account whenever new stores are being built. Particular attention should be paid to doors, ventilation openings, brickwork and the junctions between the roof and the walls. Repair any damage to the store immediately! This applies especially to the doors.

Storage hygiene and technical measures

- Keep the store absolutely clean! Remove any spilt grain immediately!
- Store bags in tidy stacks set up on pallets, ensuring that there is a space of 1 m all round the stack!
- Store any empty or old bags and fumigation sheets on pallets, and if possible in separate stores!
- Keep the store free of rubbish in order not to provide the animals with any places to hide or nest! Bum or bury it!
- Keep the area surrounding the store free of tall weeds so as not to give the animals any cover! They have an aversion to crossing open spaces.
- Keep the area in the vicinity of the store free of any stagnant water and ensure that rainwater is drained away, as it can be used as source of drinking water.

For more information contact

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