

PA IPM FACT SHEET SERIES

Is There a Mouse in the House?

Eliminate Mice with IPM



What Is IPM?

Integrated pest management (IPM) uses information about the pest in order to choose methods of control that are safest and most effective. IPM methods include pest prevention, exclusion, and nonchemical tools first. If chemical pesticides are needed, products are chosen that pose the least risk to human health. With IPM, you start by asking, “Why is this pest here?” and try to remove the conditions allowing the pest to enter and live. This approach solves pest problems rather than just treating the symptoms. It also reduces the need to use pesticides repeatedly.

Why Use IPM to Control Mice?

- More likely to give long-term control
- Less hazardous to human health
- Less risk to nontarget organisms
- More cost effective
- More site appropriate

Steps to Managing Mice

Step 1: Pest Identification

Find out what kind of pest you have to make sure it is a mouse or a rat, if possible. Mice that infest houses are typically 5–8 inches long, including a long, hairless tail. They have large ears and their droppings are pointed, about the size of a grain of rice. Rats are much larger, 13–18 inches in length, including a short tail. Their droppings are blunt, about the size of a small raisin.

Step 2: Prevention

Keep Them Out

- Look at the walls, ceilings, floors, and around pipes and wires on the inside of the house for holes and other points of entry. These openings may have a dirty or oily marking around them. A mouse can fit through a hole about the size of a dime (or a pencil), and a rat can fit through a hole about the size of a quarter.
- Look outside the house to determine how they may have gotten in, especially around pipes and wires, and at the foundation of the house.
- If possible, seal off/plug outdoor holes with rodent-proof materials (copper mesh, hardware cloth, and silicone sealant).
- Install door sweeps under doors. Many mice come in the same way you do—through the doorway!

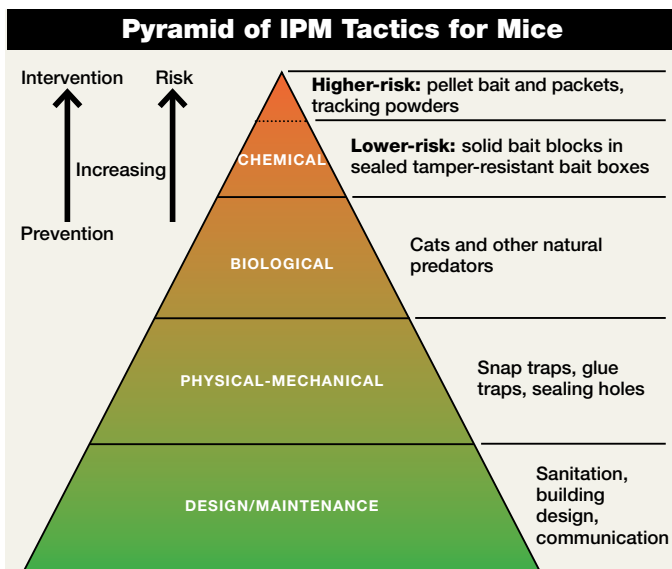
Eliminate Their Needs. All pests look for food, water, and shelter. It is very important to remove access to these items to prevent an infestation.

- Clean up crumbs and spills, and store food (including pet food) up off the floor and in sealed, hard containers with tight-fitting lids.
- Fix dripping faucets and leaking pipes.
- Keep living areas clean and uncluttered.
- Keep yards and vacant lots maintained by mowing and utilizing regular trash pickup.
- Share information with neighbors. Mice do not stay in one place.

Step 3: Controlling Mice Safely

Mouse Traps. The safest traps for catching mice in the home are snap traps that are set by latching or squeezing the back of the trap. This avoids snapping fingers while setting and releasing. These traps kill the mouse quickly and prevent you from having to touch the mouse when disposing of it.

The Pennsylvania IPM Program is a collaboration between The Pennsylvania State University and the Pennsylvania Department of Agriculture.



The pyramid explains some of the different tactics used in an IPM approach. Think of each level as a labeled drawer full of different types of tools. For example, tools used against pests in “design/maintenance” focus on prevention of pests. They are also low in risk of human chemical exposures. Try to use tactics on the lowest levels if possible.

- The snapping side of the trap should be set toward the wall and baited with peanut butter. Mice tend to run along the wall, so this increases your chances of catching them.
- Set mouse traps in those areas where most of the mice droppings are found, but keep traps well hidden and out of reach of children. Since mice are typically awake at night, traps can also be put away during the day to prevent accidents from happening to children or pets.
- Glue boards are not recommended for rodent control and should be used with caution. They are nontoxic, but they do not kill the mouse leaving you to deal with a live mouse. You may be bitten, and the mouse can make loud noises and suffer while on the trap.
- Once mice are eliminated, wear rubber, latex, or vinyl gloves to dispose of them. Place the dead mouse in a bag and throw it away, and then clean the area. Cleaning up mouse droppings should be done carefully due to disease and triggers for asthma. Do not stir up dust by sweeping or vacuuming up droppings, urine, or nesting materials.
- Wear rubber, latex, or vinyl gloves when cleaning urine and droppings.
- Spray the urine and droppings with a disinfectant or a mixture of bleach and water and let soak five minutes. The recommended concentration of bleach solution is one part bleach to ten parts water. When using a commercial disinfectant, follow the manufacturer’s instructions on the label for dilution and disinfection time.
- Use a paper towel to pick up the urine and droppings, and dispose in the garbage.
- After the rodent droppings and urine have been removed, disinfect items that might have been contaminated by rodents or their urine and droppings.

- Clean and disinfect the whole area afterward.
- Remove and dispose of gloves and wash hands with soap and water.

Using Pesticides on Mice

Mouse and rat baits are pesticides (also called rodenticides). Historically, baits in pellet form have accounted for a high number of calls to poison control centers because children put them in their mouths. As a result, the U.S. Environmental Protection Agency (EPA) now requires that such baits be in larger, solid blocks and enclosed in a secured, tamper-resistant bait station. Like all pesticides, these products must be used carefully, according to label instructions.

- Avoid using rodenticides inside homes. Besides increased risks to children and pets, rodents die inside walls and smell bad, attracting insect pests.
- Do not use a product if it does not have an EPA registration number or directions on the package. It is probably illegal and even more dangerous to children and pets.
- Avoid using foggers and sprays. These are designed for insects and do not affect rodents.

If you suspect that a child has been accidentally exposed to chemicals, immediately call the Poison Control Center at 1-800-222-1222.

Need More Help?

- PA IPM Program: extension.psu.edu/ipm
- New York State IPM Program: nysipm.cornell.edu/publications/evictmice/default.asp

For More Information

Pennsylvania IPM Program at Penn State

Phone: 814-865-2839

Email: paipm@psu.edu

extension.psu.edu/ipm

Pennsylvania IPM Program in Philadelphia

Phone: 215-471-2200, ext. 109

Email: pscip@psu.edu

extension.psu.edu/ipm/resources/urbanphilly

An **OUTREACH** program of the College of Agricultural Sciences

Penn State College of Agricultural Sciences research and extension programs are funded in part by Pennsylvania counties, the Commonwealth of Pennsylvania, and the U.S. Department of Agriculture.

Where trade names appear, no discrimination is intended, and no endorsement by Penn State Extension is implied.

This publication is available in alternative media on request.

Penn State is committed to affirmative action, equal opportunity, and the diversity of its workforce.

Produced by Ag Communications and Marketing

© The Pennsylvania State University 2013 Code EE0072 2.5M06/13payne