

Why has my home been overrun by pantry moths and how do I get rid of them?

December 30 2021, by Tanya Latty



Credit: AI-generated image ([disclaimer](#))

Has your home recently been overrun by tiny gray moths, flapping erratically around your kitchen? Spotted some suspicious webs in a cereal box? You might be sharing your dried food with pantry moths (*Plodia interpunctella*).

Although several species of moth can live and breed in our homes, the pantry moth (also known as the "Indian meal moth") is one of the [most common](#) unwanted moth-guests.

Pantry moths are found on [every continent](#) except Antarctica. They feed on rice, grains, flour, pasta, cereals, dried fruits, spices, seeds, nuts and other dried [food](#). Their fondness for dried foods makes them a major pest in food storage facilities.

So how did they get in your house—and what can you do to get rid of them?

'Large amounts of silk webbing and feces'

Like other moths, pantry moths have four distinct life stages: egg, caterpillar, pupae and adult.

The first sign of a pantry moth infestation is often the sight of adult moths flying in an erratic, zig-zag path around our kitchens.

Pantry moth adults have gray-colored wings with bronze or tan [bands near the wing tips](#).

Although they can be annoying, adult moths do not feed at all. The trouble arises when female moths lay their eggs in or around our food. The tiny eggs hatch into barely visible cream-colored caterpillars small enough to crawl into poorly sealed food containers. There, they begin to feed.

As they grow, caterpillars produce large amounts of silk webbing and feces, both of which can contaminate food.

Once a caterpillar reaches its full size, it leaves the food in search of a

safe space to make a cocoon, usually a crack, container lid, crevice or corner. Sometimes they turn up in the hinges of a pantry door.

A few weeks later, an adult moth emerges from the cocoon, ready to start the cycle again.

How did pantry moths get in my house? And why are they more common lately?

Unfortunately, it's likely you brought them home yourself. Although pantry moths can enter via doors and windows, most infestations probably start when we inadvertently bring home eggs and caterpillars in our dried foods.

Kitchens full of unsealed containers and spilled food create an irresistible smorgasbord for female moths looking for the ideal place to lay eggs.

Like many insects, pantry moths [develop more quickly](#) at warmer temperatures.

At [warmer temperatures](#), [females also lay more eggs](#) and caterpillars are more likely to survive to adulthood.



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But prolonged exposure to temperatures [above 40°C](#) are lethal to eggs and caterpillars.

While pantry moths can be found at any time of the year, the warm temperatures of late spring and early summer are often perfect for supporting rapid population growth.

How do I get rid of pantry moths?

First, eliminate their sources of food. Dry goods should be stored in sealed, airtight containers with tight-fitting lids.

To prevent eggs and caterpillars from hitchhiking in on purchases, place

dried foods in the freezer for three to four days; this should kill any eggs and caterpillars that may be present.

If you already have an infestation, carefully inspect all potential food sources including spices, cereals, grains, dry pet foods, pasta, seeds, nuts, tea, dried flowers and dried fruit.

Pantry moth caterpillars are hard to see; look for the silken webbing they produce, which can cause food grains to clump together. These webbed clumps are often more conspicuous than the caterpillars themselves.

Infested foods should either be discarded or placed in the freezer for three to four days to kill eggs and caterpillars.

Clean up and discard any spilled foods on shelves, under toasters or behind storage containers. Even small amounts of food can support thriving caterpillar populations.

Caterpillars can travel considerable distances to find a safe place to make a cocoon, so make sure to check shelves, walls, crevices and ceilings. Moth cocoons can be removed by wiping with a damp cloth or with a vacuum cleaner.

Cleaning and proper food storage are the best ways to end a pantry moth outbreak. Sticky pantry moth traps are commercially available and can be used to monitor and reduce the moth population.

Pantry moth traps—triangular cardboard covered with a thick sticky glue—are baited with a chemical that mimics the smell of a female pantry moth.

Males are attracted to the trap and become hopelessly stuck to the glue. Since sticky traps only target males, traps are unlikely to stop an

outbreak on their own; always use them with proper food storage and careful cleaning.

Insecticide sprays are unlikely to be effective as pantry moth caterpillars and eggs are protected within food containers. Pantry moths are also resistant to a range of insecticides, rendering them ineffective. Insecticides should never be applied on or near food.

What if I ate some pantry moth eggs or larvae?

While it can be disconcerting to find tiny caterpillars in the cereal you've been enjoying all week, accidentally eating pantry moth caterpillars is unlikely to cause any health problems.

Given how common they are in stored food, you've probably already unknowingly consumed many [moth eggs](#) and larvae.

Thank goodness [caterpillars](#) are generally an [excellent source of](#) protein!

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