STORED PRODUCT PESTS CAN CAUSE EXTENSIVE DAMAGE AND PRODUCT LOSS

Stored product pests (SPPs) are insects that harbor, feed on or gather around processed and non-processed dry foods such as pasta, flour, cereal, pet foods, dry milk, grains, spices, baked goods and other dry goods. SPPs generally affect food processing and food retail facilities. The ingredients and processes, along with a warm and often moist environment, can create conditions conducive to stored product pests. These insects can cause extensive damage and product loss.

There are four categories of stored product pests
Below is an illustration of how stored product pests feed on a grain kernel.

1. **Internal Feeders**
   - Insects lay their eggs within the grain so the larvae can feed on the product
   - Angoumois Grain Moths
   - Lesser Grain Borers
   - Granary Weevils
   - Rice Weevil

2. **External Feeders**
   - Insects feed on the outside surface of grain kernel and may chew through
   - Indian Meal Moths
   - Warehouse Beetles
   - Cigarette Beetles

3. **Scavengers**
   - Insects feed on grain after the shell breaks by mechanical means or other insects
   - Flour Beetles
   - Sawtoothed Grain Beetles
   - Foreign Grain Beetles

4. **Secondary**
   - Insects feed on deteriorating, moldy materials
   - Psocids – small scavengers which live on fungi, algae and lichens

IMPACT TO YOUR BUSINESS

Stored product pests can damage food and food ingredients, and can have a major impact to your business.

- Product loss
- Lost production time
- Audit score deduction
- Treatment costs
- Brand reputation
- Consumer complaints

DID YOU KNOW...

- There are more than 60 species of stored product pests in North America - most are either moths or beetles.
- According to research at the University of Florida 80% of human food comes from grains; 12% of harvest is lost to insects before harvest; another 36% is lost after harvest to insects.
- Most stored product pests can survive and breed at temperatures ranging from 60 to 95°F.
- All moths and beetles develop through a complete metamorphosis life cycle (egg, larvae, pupa and adult). In optimum conditions this lifecycle can be completed in ~30 days (depending on species).
- Some stored product pests can chew through common packaging such as cardboard and bags, and contaminate the finished product.
A proactive, preventive approach

Our program helps keep plants up and running while preventing stored product pests from infesting your facility and product.

Ecolab uses a partnership approach with a science-based protocol that will drive down stored product pest activity. By thoroughly inspecting for the presence of stored product pests and conditions conducive to pest activity, proper identification, continual monitoring, and implementing best prevention practices, together, we can eliminate these pests.

Partnership is key to success

A successful prevention program requires a strong partnership between you and Ecolab. Ecolab will identify and advise you on actions needed to correct structural, sanitary and operational inefficiencies, proactively treat susceptible areas and provide trend reporting. This proactive, partnership approach will help to prevent conditions that can cause pest-related issues.