

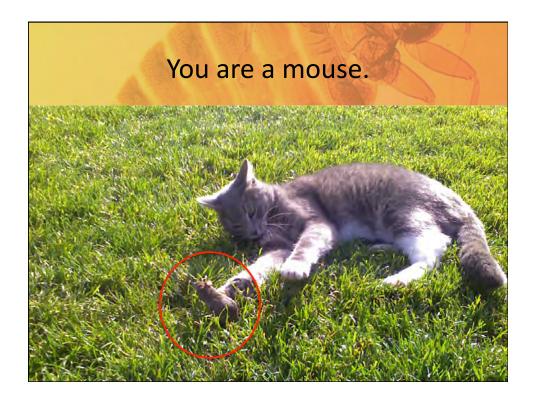
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Today's topics

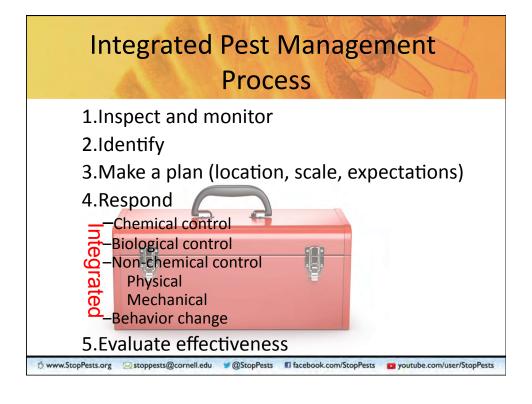
- **★Introductions & more topics**
- *Review of what we know about IPM
- ★ Lessons learned last week
- ***** Discussion
- New resources
- **☀** How to continue to improve your programs







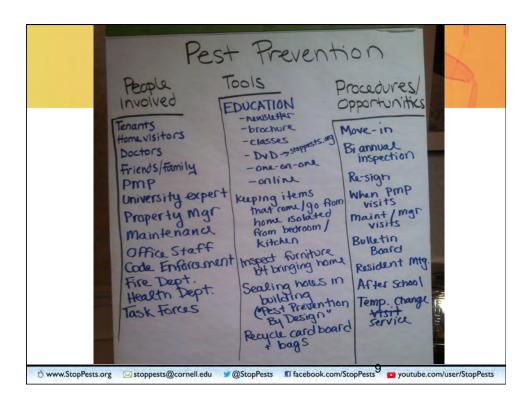




IPM is not...

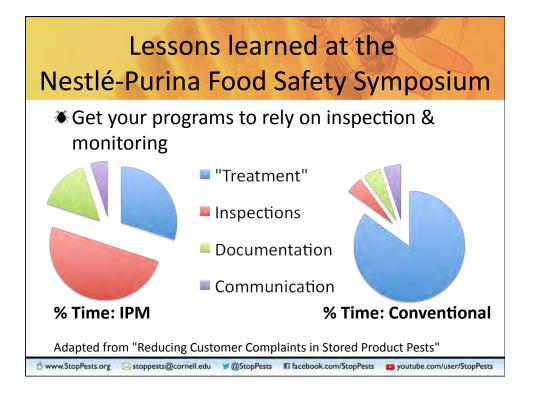
- Using only bait
- Applying more than one kind of pesticide
- A certain set of pesticides
- Using spices and herbs
- A service that can be contracted out





Principles

- "Think like the pest"
- Management is a continuous process
- Pest conducive conditions make pest vulnerable areas
 - If you build it they will come
 - Animals follow food
- LOCATION, LOCATION

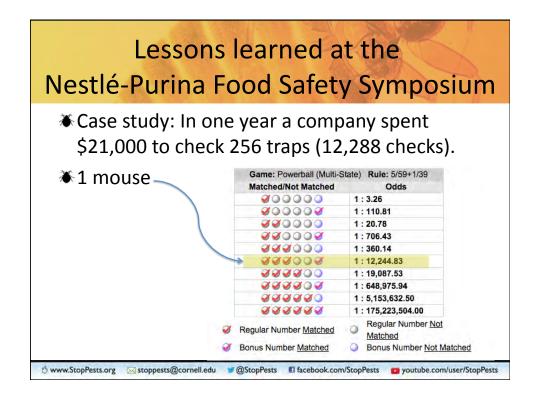


Lessons learned at the Nestlé-Purina Food Safety Symposium

☀ Don't blow or push. Suck.

Lessons learned at the Nestlé-Purina Food Safety Symposium

- Understand the real vs. perceived pest pressure on your building
 - Lots of animals go into rodent bait stations and eat bait
 - Device location should be data driven—scratch where it itches



Lessons learned at the Nestlé-Purina Food Safety Symposium

- Develop the expertise to manage your own program—own your program
 - Do a data-driven review of current practices
 - Plot the data you are paying for
 - In-house training
 - Give staff tools to speak the language of the vendor
 - · Sanitation is 85% of pest control
 - · People do right when the checker checks
 - Establish a "Gatekeeper"

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Lessons learned at the Nestlé-Purina Food Safety Symposium

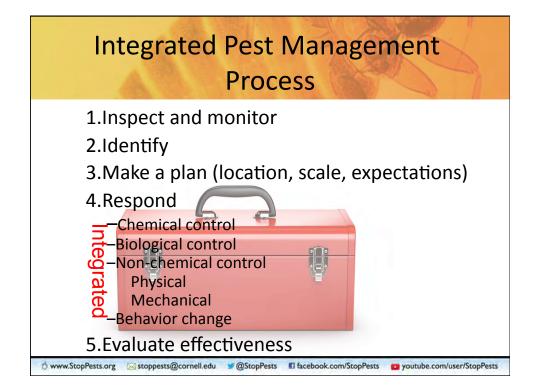
- Word your contract carefully
 - Inspection time stated & enforced
 - Scratch where it itches
 - Reduce treatment time and re-allocate to inspection and communication—move your PMP off the wall

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IPM Log: data & documentation

- Applicator licenses
- Proof of insurance & business registration
- Contract/service agreement
- Potential notifications/ preparation instructions
- Product labels & SDS sheets
- Educational materials
- Trending reports

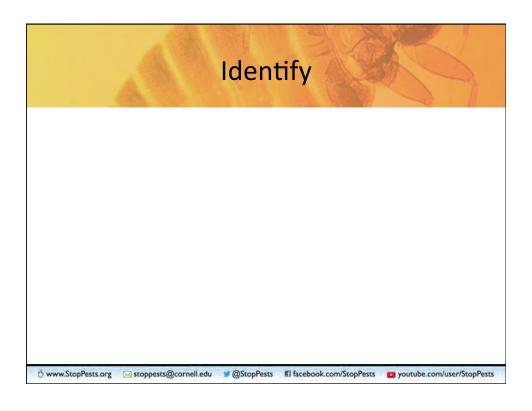
- Maps
- Service schedule
- Service log
 - Time
 - Units serviced
 - Detailed reports of any treatment
- Focus units



Nothing is hidden from pests

- **☀**Think of....
- A place at your work that is not inspectable or cleanable.
- A way to make this spot more inspectable and cleanable.





Plan a scaled response ("treatment")

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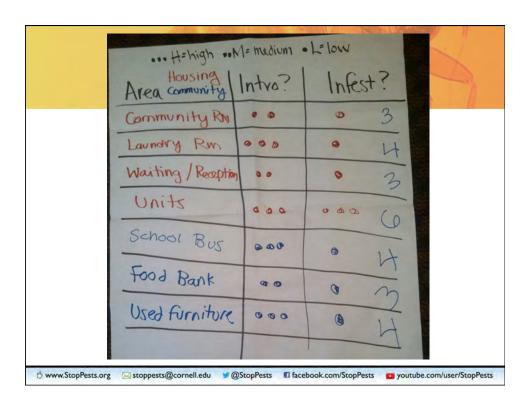


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Areas at-risk for introduction and infestation

- **★**Introduction is likely where people
 - frequently travel
 - set down personal belongings
 - sit or lay down for long periods of time
- ▼Infestation is likely where bed bugs can
 - Crawl (upholstered furniture or bedding)
 - Feed on a person for 5 minutes without being detected
 - Hide in cracks or folds

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Bed Bug Treatment Options

In-house options (minimum training)

- Encasement
- Monitoring
- ▼ Quick (15 min) visual inspection
- Steam
- Clothes Dryer
- Vacuum
- Heat chamber (FL model)
- Diatomaceous Earth (APPLICATOR'S LICENSE)

Leave it to the experts

- Canine inspection
- Whole-unit heat treatment
- Pesticide application
 - Spray
 - Dust
 - Fumigation
- Thorough inspection
- Active Monitoring
- Freezing

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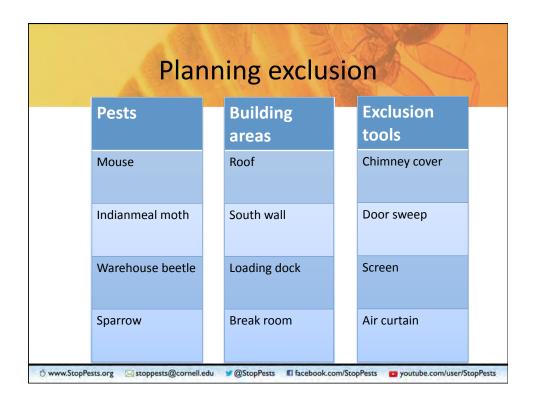
Rodent teeth are well adapted to gnawing through all but the hardest materials. Rats have been known to gnaw through lead. Rodent-resistant materials include concrete with a minimum thickness of 2 inches (5.1 cm) if reinforced, or 3.75 inches (9.5 cm) if not reinforced; galvanized sheet metal if 24 gauge or heavier for wall or pipe barriers, 22-gauge or heavier for kick plates or door edging, or 14-gauge if perforated or expanded sheet metal grills; brick if 3.75 inches (9.5 cm) thick with joints filled with mortar; hardware cloth (wire mesh) if woven, 19-gauge, 1/2-x 1/2-inch (1.3-x 1.3-cm) mesh to exclude rats or 24-gauge, 1/4-x 1/4-inch (0.6-x 0.6-cm) mesh to exclude mice; aluminum if 22-gauge for frames and flashing or 18-gauge for kick plates and guards; plaster; or corrugated metal. Effective on: Mice, Rats, Opossums, Raccoons, and Misc. Vertebrates Compatibility Issues with Other Design Goals: Hygnstrom et al., 1994.

Exclusion: prevent pest entry and eliminate hiding spots

- Screens
- Netting
- Door sweeps
- Hardware cloth
- Caulking
- **Sealant**
- Chimney cap
- Escutcheon plate
- **☀** Expandable foam

- Exterior lighting
- **★**Strip curtain
- Bird spikes
- Drainage
- Sheet metal
- **★**Cement mortar
- **★**Air curtain
- Positive air pressure

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- NH Bed Bug Action Committee: www.nhbedbugs.org
- CT Coalition Against Bed Bugs: www.ct.gov/caes/cwp/view.asp?a=2826&q=437580&caesNav

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HUD's IPM guidances

- PIH 2011-22: Promotion of Integrated Pest Management (IPM)
- Notice H 2011-20/PIH 2012-17: Guidelines on Bed Bug Control

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Prevent introduction and spread: residents

- *Keep coats, backpacks, purses, and bags off beds, recliners, and sofas at home and while out
- ★Inspect used furniture carefully before bringing it home—avoid it if possible
- **☀** Look for signs when sleeping away from home

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Advice for staff, health aides, and contractors

★In units:

- Avoid sitting or placing items on potentially infested surfaces
- Wear a protective layer when moving infested items
- ★In the main office/community areas:
 - Replace fabric-covered furniture that has many crevices with plastic or metal items
 - Have residents set their belongings in plastic totes during meetings

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A lack of pests is your reward

- Pest prevention is the gold-standard
- Early detection and rapid response is the minimum requirement

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In Summary

- **☀** Keep the area good for people and bad for pests.
- **☀** Get yourself some kneepads and a bright flashlight.

Thank You & Good Luck!

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