Welcome! While we wait, please tell us in the chat:
What's your name? Where are you from? Find handouts for today's session at: http://stoppests.org/go/onlinecourse

Session One of Integrated Pest Management for Multifamily Housing



- StopPests is a program of the Northeastern IPM Center of Cornell University, funded by HUD's Office of Lead Hazard Control and Healthy Homes.
- · Training content is research-based.
- Products, vendors or commercial services pictured or mentioned are illustrative, not endorsements.

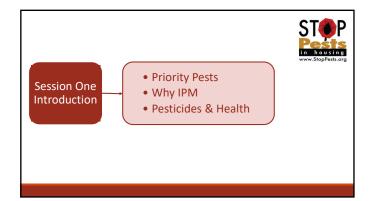
Session One of Integrated Pest Management for Multifamily Housing United States Department of Agriculture National Institute of Food and Agriculture Nati

Session One - Meet Your Host STOP Pests in housing www.StopPests.org

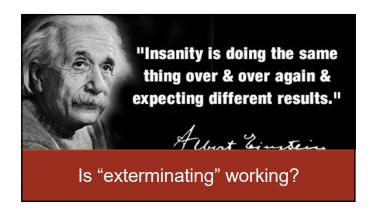


Our Schedule

- Session 1: Introduction to IPM and Pesticide Use
- June 8, 2023; 1:00 pm 2 pm Eastern
- Session 2: Cockroaches
- June 15, 2023; 1:00 pm 2pm Eastern
- Session 3: Rodents
- June 22, 2023; 1:00 pm 2pm Eastern
- Session 4: Bed Bugs
- June 29, 2023; 1:00 pm 2pm Eastern









Think about "Pest Management," rather than Exterminating.

The "Exterminator" is now a Pest Management Professional (PMP)



Poll 1: What pests are most troublesome in your area?

- Cockroaches
- Mice
- Rats
- Bed Bugs
- Other

Select one answer. If you said "other," please enter in the chat.

Three Priority Pests

- Cockroaches
- Rodents
- Bed Bugs





Three Priority Pests





- Cockroaches
- Rodents
- Bed Bugs



Three Priority Pests

Cockroaches

- Rodents
 - Bed Bugs

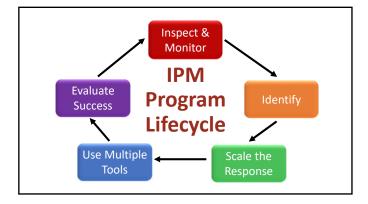


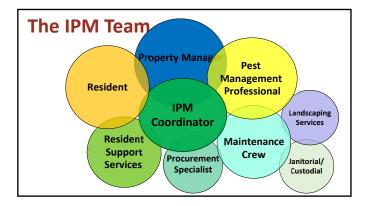


What is IPM?

Integrated: Uses multiple approaches that work together

Pest: What the multiple approaches work to fight **Management:** Use of the most economical means with the least possible risk to people, property, and the environment





Poll 2: Who should coordinate pest control at a housing site? • IPM Coordinator • Building/property manager • Building Super or Head of maintenance • It's team effort • The pest control professional • I don't know Select one answer.

Benefits of IPM

- Cost savings
- A healthier building
- Fewer complaints
- Fewer pests

What all pests need

- Food
- Water
- Shelter



Think Like a Pest







IPM Practice

Please chat!

Examine each photo, then tell us:

What's the problem?
How would you fix it?
Who is responsible?

















Healthy Homes & IPM

What is "Healthy Housing?"

Healthy Housing is designed, constructed, maintained, and rehabilitated in a manner that is conducive to good occupant health.

Healthy Homes & IPM

To reduce housing-based health hazards, "keep it":



3. Keep it Ventilated

4. Keep it Safe

Keep it Contaminant-Free

6. Keep it Maintained

7. Keep it Thermally-Controlled

8. Keep it Pest Free

What does HUD say about pest control?





• HUD is committed to IPM as a pest control strategy.



What does HUD say about pest control?

HUD's promotion of IPM complies with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)



 "Federal agencies shall use Integrated Pest Management techniques in carrying out pest management activities, and shall promote Integrated Pest Management through procurement and regulatory policies, and other activities." 7 USC 136r-1

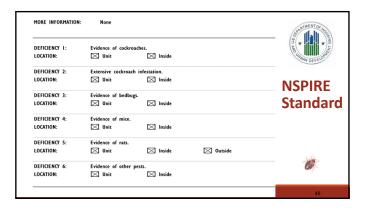
What does HUD say about pest control?

Real Estate Assessment Center (REAC) NSPIRE Standards



- **Deficiency**: Evidence of live or dead rats, mice, cockroaches, droppings, holes, shed skins, eggs
- **Infestation**: Presence of potentially disease carrying animal or insect.





What do your local codes say about pest control?

- Housing sites must also comply with local housing & habitability codes
- The International Property Maintenance Code (IPMC) is an example of a habitability code
- Do you know...does your community have laws regarding bed bugs?



HUD's Guidance on IPM

- Ensure efficacy of pest elimination
- · Protect health of residents, staff and the environment
- · Extend the useful life of a building
- · Generate significant savings that could offset the costs of the pest control

IPM effectively eliminates pests in safer and longer-term, cost-effective ways than traditional pesticide treatments.

Promotion of Integrated Pest Management (PIH 2011-22)

HUD's Guidance on IPM

Promotion of Integrated Pest Management (PIH 2011-22)

Find this guidance at HUD.gov





Documentation is key

One IPM log in each building to:

- Track pest population
- Identify focus units
- Ensure prompt action



Find sample documents at stoppests.org

Documentation is key

Have a system that is available and accessible to everyone who needs the information

- Manual (paper)
- Electronic



Find sample documents at stoppests.org

What's in the IPM log?

- · All documents related to pest management
- Information from HUD inspections related to IPM
- Schedules, Notifications, Product Info, Licenses, etc.

Find sample documents at stoppests.org

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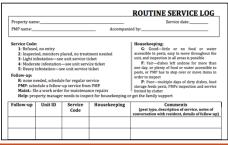
What's in the IPM log?

Focus unit tracking log (sheet)

log?	Date	Unit / Location	Name of Staff Member / Technician	Pest Level	Repairs	i Needed	Recent or Current Focus Unit?	Housekeeping ,	/ Lease Compliano
			Note any pests and circle the level of infestation. Involve your PMP.	Work order number or problem description	Check when completed	Yes or No	Housekeeping level* (circle one)	Action taken (e.g. met with tenant, sent violation notice)	
ınit				Type of Pest: Light Moderate Heavy				GFP	
log				Type of Pest: Light Moderate Heavy				GFP	
				Type of Pest: Light Moderate Heavy				GFP	
				Type of Pest: Light Moderate Heavy				GFP	
				Type of Pest: Light Moderate Heavy				GFP	
	G Goo	dishes left u	food or water and one for more	accessible to pests, easy to n than one day, or plenty of es, sloppy food storage med	food or water a	ccessible to per	its, or PMP ha	s to step over or m	e ove items to inspec

What's in the IPM log?

Service log



Find sample documents in your handouts or at stoppests.org 54

What's in the IPM log?

Product labels and Safety Data Sheets (SDS) for all pesticides



Find sample documents in your handouts or at stoppests.org

What's in the IPM log?

- Educational materials for staff and residents
- Here's a poster on bed bug safety

Stop Bed Bugs Safely! Use this information to help stop the spread of bed bugs in your home and community.
Remember that bod bugs: Cannot jump or ity Do not prepared disease Do not burrow into the skin
Look for signs of bed bugs: bites, black spots on the bed; live or dead bugs Know where to look: paper thin crevices close to where you sleep
Check your home regularly
. Reduce household clutter and vacuum furniture and floors.
 Encase your mattress and box spring in bug proof covers.
. Wash clothes and linens and dry them on a hot setting.
. Do not use "bug bombs" or foggers, which may worsen the problem.
 Do not take discarded furniture or items from the street - these things may already have bed bugs.
. Ask for help! Do this to get a pest control pro involved:

Find sample documents in your handouts or at stoppests.org

What's in the IPM log?

This is the first page of a tri-fold flyer on the tenant's role in IPM.



Find sample documents in your handouts or at stoppests.org

What's in the IPM log?

This is the second page of the flyer.



Find sample documents in your handouts or at stoppests.org

What's in the IPM log?

Other forms to include in the IPM Log include:

- · Service schedule
- · Applicator licenses
- Proof of insurance and business registration
- Potential notifications/ preparation instructions
- Contract/service agreement (Review regularly!)

Find sample documents at stoppests.org

What's in the IPM log?

Examples of Log Entries include:

- Locations of any traps and bait stations that are placed
- Notes about resident cooperation for follow up by resident services
- Notes about needed repairs for follow up by maintenance staff.

Copies of work orders will need to be filed, as well.

Find sample documents at stoppests.org

Poll 3: Does your organization have an IPM Log?

- Yes, contains all of these documents
- Yes, contains some of these documents
- No
- I don't know
- N/A

Select one answer.

-		

Poll 4: What form is your organization's IPM Log?

- Electronic all on the computer
- Paper
- Some electronic, some paper
- I don't know
- N/A

Select one answer.

At First

- More Education, Repairs, and Monitoring
 Increased Work Orders
- - Pests and pest-friendly conditions that were previously overlooked are reported

- Then...Fewer Complaints
- Fewer Pests
- A Better Place To Live

At first more work, but then less



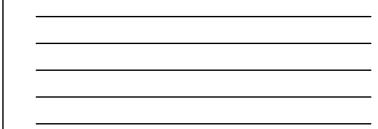
What's a Pesticide?

Any substance or mixture of substances intended for: UNITED STATE

- PreventingDestroyingRepelling or

- Mitigating

...any pest



Pesticides



- Pesticides should be applied only by a licensed PMP
- The label is the law
- EPA does not assess effectiveness, only risk/benefit when used in accordance with the label
- Look for the key words Caution, Danger and Poison

The chemicals that people use to kill pests pose a risk to humans, too



Concerns with Pesticides

Vulnerable populations:

- Elderly, children, pregnant women
- People with breathing or lung disorders such as asthma
- People with chemical sensitivities



Concerns with Pesticides

 Residents use of "illegal" pesticides



Concerns with Pesticides

- Residents use of "illegal" pesticides
- Pests become tolerant/avoid
- Exposure risk may outweigh benefit
- Possible harm to pets and wildlife



Total Release Foggers or "bug bombs"



 Chemicals fail to reach places where cockroaches congregate

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Total Release Foggers "bug bombs"



- Chemicals fail to reach places where cockroaches congregate
- Nasty toxic residue in... areas cockroaches generally avoid but which are heavily used by humans and pets

Pesticide Risk

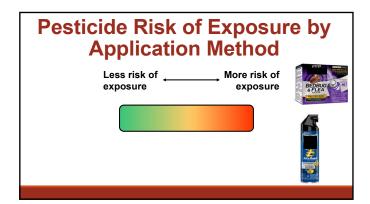


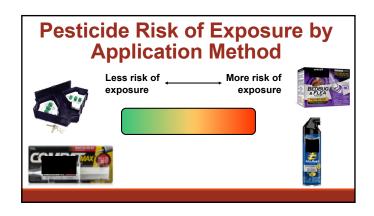
Pesticide Risk of Exposure by Application Method

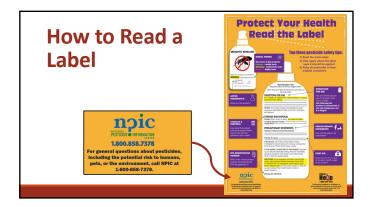
exposure	от _{———}	exposure			
Tamper- resistant station	Gel bait in a crevice	Total release fogger			

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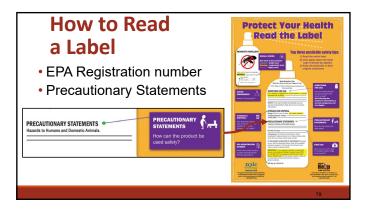
Pesticide Risk of Exposure by Application Method Less risk of exposure exposure

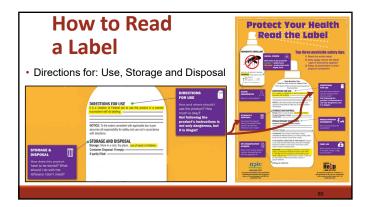












Signal Words on the Label

Signal words:

CAUTION = slightly toxic WARNING = moderately toxic DANGER = severe skin or eye irritation

DANGER-POISON = highly toxic





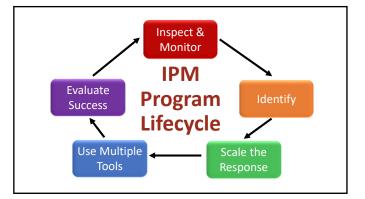
Poll 5: Do residents apply pesticides on their own?

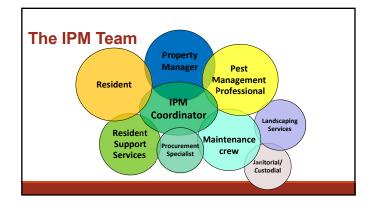
- Yes, without restrictions
- Sometimes, although we have a policy against it
- Never
- I don't know

Select one answer.

If they're so bad, why do people tolerate exposure to pests and pesticides?

- Low expectations for pest control and maintenance
- Other priorities
- · Not aware of the problems
- Accustomed to living with problems, and cannot envision a better way







IPM & Pesticides Who does what? Encourage reacting Pests Conditions heals, heles) Turn PMF & resident observations into work croise Discourage positions use by residents. Executive the conditions of the conditi	- What Will You Do Now? Resident? PMP? Staff? (Specify department)	Your IPM Workplan Who does what?
Cockrosches Who does what? Merdieren Merdieren Serfation Glessehe Repairing leeks Repairing le	Resident? PMP? Staff? (Specify department) Resident? PMP? Staff? (Specify department)	IPM & PesticidesCockroaches
Checking/bearing appliances Bechlups Who does whelt? Education Abstration Abstration Abstration Abstration Abstration English Becklup	Resident? PMP? Staff? (Specify department)	RodentsBedbugs
		88

	Notes	
Contract language to consider		
Focus unit schedule		-
Service scheduleling	 	-
Tools other than sprays		-
Friurational materials for residents		-
COSCUSSIVA INJUNIOS DE PESDANIS		
Cockroaches	Notes	-
Contract language to consider		
No routine spraving		-
No pyrethroid sprays		-
Use monitors in all units		
Treat based on monitor counts:		-
Baits		
Dusts		-
• IGB		
Follow-up schedule (2-4 weeks)		-
Bait rotation schedule		
Rodents	Notes	-
Contract language to consider		
Cleaning rodent residual		
Mouse cleanout		
Traps placement emptying		
odenticides		
TOTAL PROPERTY.		
Bed Bugs	Notes	\neg
Contract language to consider		
Monitors in all or high-risk units		
Inspection of neighboring units		
Assessment-based prep instructions		
Use of non-chemical treatments		
Steam		
Heat		
Vacuum		
Use of dusts	1	-
Use of sprays		
Follow-up treatments scheduled	1	

Your IPM Workplan: Contract language

- •IPM & Pesticides
- Cockroaches
- Rodents
- Bedbugs

Homework for Housing Sites:

- •Find your IPM log
- •Remembering our suggested list of contents, is yours complete?
- •What should you add?



2	9

