Integrated Pest Management (IPM) For North Carolina Schools

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What is Integrated Pest Management?

- "IPM" is a common sense approach to dealing with pest problems. IS THERE A NEED?
- Routine use of pesticides is NOT a part of IPM





WHY IPM IN SCHOOLS?

GAO United States General Accounting Office Committee on Governmental Affairs, U.S. Senate

PESTICIDES

Use, Effects, and Alternatives to Pesticides in Schools



November 1999

 Health issues - from both pests and pesticides



WHY IPM IN SCHOOLS?

School Children Health Act of 2006 requires all North Carolina public schools to:

Notify parents and school staff annually of any scheduled pesticide applications

–Provide advanced notice of any unscheduled or nonexempt pesticide application (at least 72 hours prior to application) to any parents & staff who have requested such notice.

–Implement an IPM program by October 2011

Photo: www.ent.uga.edu

School Children's Health Act What Is Covered?

- Both indoor and outdoor applications
- <u>Most</u> typical pesticides* (Exempts disinfectants & some other types of products)





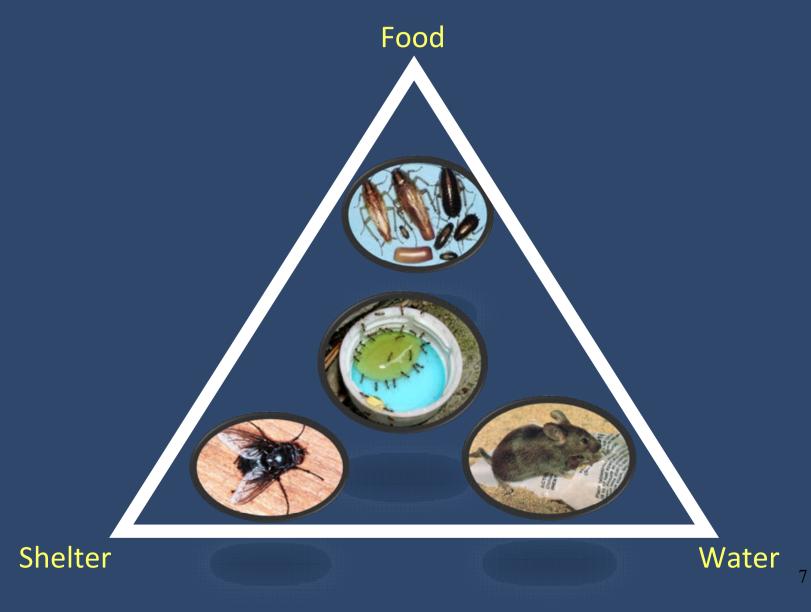
SCHOOL IPM PROGRAM BASICS

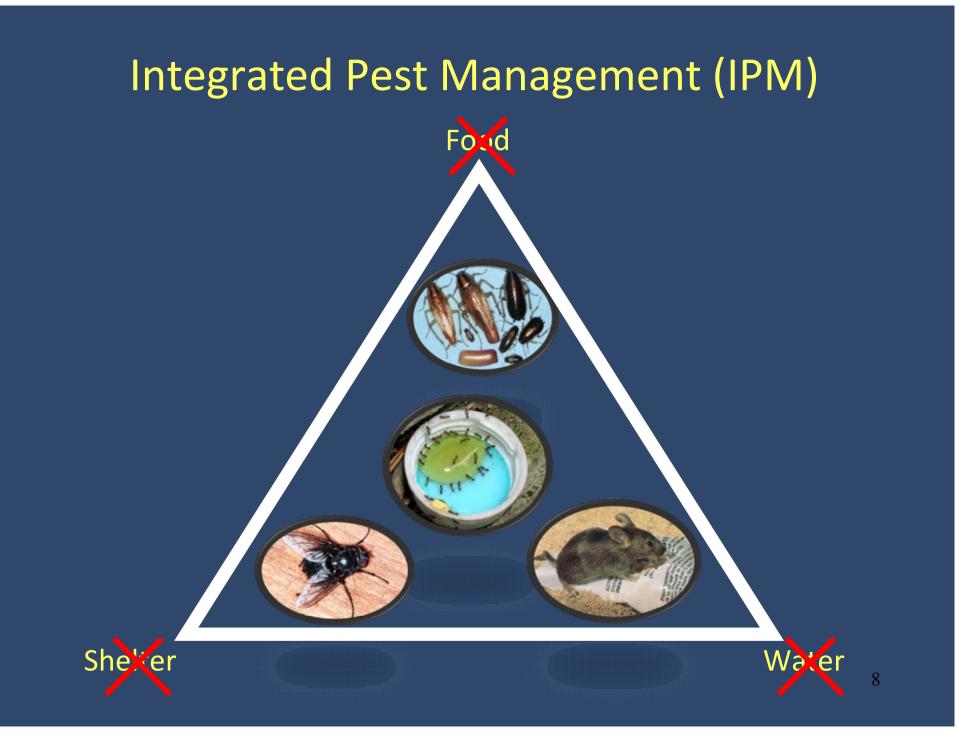
• IPM Policy

- Minimize the potential health, environmental and economic risks from pests or from the use of chemical pest control methods.
- IPM Coordinator
 - Implement the IPM program
 - Educational resource
 - Contact for pest control services









Pest Identification

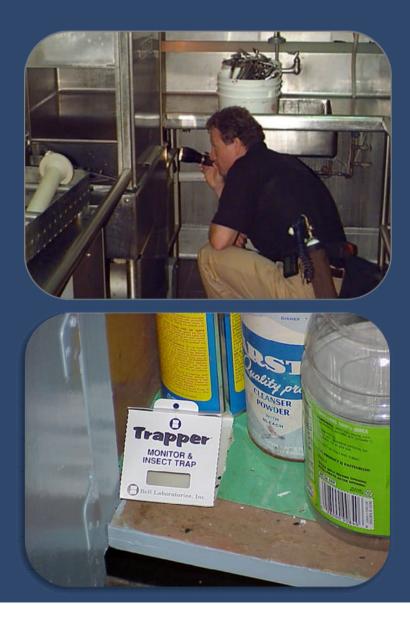


- IPM Coordinator
- Pest Control Contractor
- County Cooperative Extension Center



http://www.ces.ncsu.edu/counties

Inspection & Monitoring



Inspection



Sticky traps for monitoring

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Record-Keeping: Pest Problem Log

			Contractor and the second	
1			Real Property in the second second	
				In Indexe
		PEST PROBLEM	REPORTING LOG	
Name of Sch	1001			
AND FROM		PEST	COMMENTS	RES GROOM
DATE	ROOM NO.	PEST Rom 201 fall grade	COMMENTS	eli alte
DATE 12-11-99	ROOM NO.	PEST Rom 201 fall greaded in actual 1 baby roach	COMMENTS	
DATE /2-//-99	POOM NO.	Room 20' fall greater	COMMENTS	
DATE 12-11-99 1-(1-200	POOM NO.	Room 20' fall greater		
DATE 12-11-99	POOM NO.	Room 20' fall greater		
DATE /2-//-99	ROOM NO.	Room 20' fall greater		



- Pest sightings
- Sanitation & maintenance problems
- Treatment & repair records

Sanitation: Remove pests' food & water







Sanitation: What YOU Can Do

- Eat in designated areas only
- Store all food products, including pet food, in sealed containers





Store items in pest-proof bags or containers



Do not store open food items in desks, lockers or cubbyholes

Sanitation: What YOU Can Do

- KEEP IT CLEAN
- Report sanitation and trash problems



Area under refrigerator needs to be cleaned



Report sanitation problems



Empty trash cans in classroom

Sanitation: What YOU Can Do

 Report leaks, clogged sinks, or standing water



Clogged drainage ditch at school entrance



Misdirected roof drain



Water leak above ceiling

Exclusion: Keep Pests Out



Missing door sweeps



Door not closing properly



Gaps between pipes and walls



Loose/missing window screens

Habitat modification: Reduce pests' shelter



Photo: http://sunny-storyteller.blogspot.com



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- Throw out or remove what you aren't using
- Keep classrooms clean, organized and clutter free





Keep storage areas clean and organized:

 Store items off the floor on shelves
 Store magazines, newspapers, etc. in clear

plastic containers











Report any cracks or holes in walls, loose baseboards or molding, or openings around pipes²⁰





Report shrubs, vines, or tree branches touching the building

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Do not store surplus furniture and equipment near the building exterior

Pesticides Used in IPM - Baits

• Exempt from notification:

- Bait stations
- Gels
- Granular products



Gel bait



Bait stations



Granular bait

Pesticides Used in IPM - Sprays

- Exempt from 72-hour notification:
 - Crack & Crevice
 - EPA Toxicity Category IV (do not require "Caution" on label)



Crack & Crevice Treatment



Category IV Products

One more thing: <u>NEVER</u> apply pesticides

 Never store or apply pesticides in classrooms or anywhere else in the school





What to expect with IPM

- More time spent inspecting and monitoring and less on applying pesticides
- Fewer pest problems
- Use of less toxic pesticides
- Reduction in the overall use pesticides



Resources and References

- School System's IPM Coordinator: Raymond Sapp, Sr. – Facilities and Planning Division, Iredell Statesville Schools
- School system website: ISS Environmental Website will be on line end of October 2011
- NC State University, School IPM program http://schoolipm.ncsu.edu