



Maine's School Integrated Pest Management (IPM) Program --updates and resources

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Maine School IPM Program

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Pesticide Risks

- 20,116 people treated in health care facilities/yr.
- US pesticide exposures cost nearly \$200 mill/yr (emergency department visits, hospitalizations, and deaths*)
 - Langley & Mort 2012 J of Agromedicine
- Childhood exposure to insecticides and herbicides associated with significant increase in risk of leukemia and lymphoma (Chen et al. 2015, J of Pediatrics)



*Excluding costs from lost work time, hospital physician fees, and pesticide-induced cancers

Unmanaged Pests are Risky Too



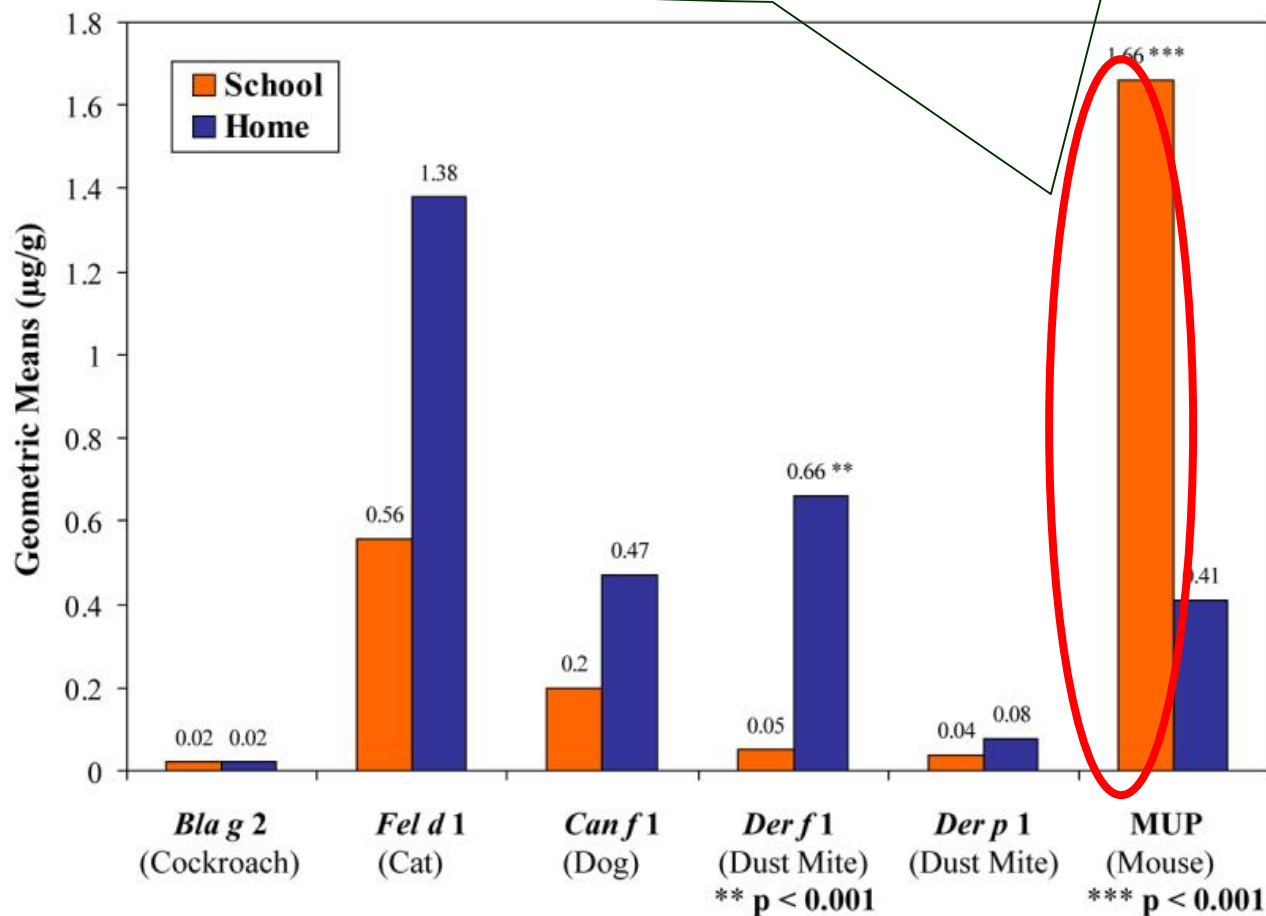
Some Common Pests:

- Asthma triggers (mice, cockroaches, mold)
- Lice & bed bugs
- Ticks, mosquitoes, wasps, bees,
- Wildlife (bats, birds, snakes)
- Weeds & poisonous plants
- Turf & ornamental pests



Pests and Asthma in Schools

Average concentrations of mouse allergens are 4-5x higher in schools than in homes of children with asthma**



** Permaul, et al. 2012. Pediatr Allergy Immunol. 2012. Allergens in Urban Schools and Homes of Children with Asthma.

Integrated Pest Management (IPM) is **Risk Management**

- Reduce health risks
- Reduce energy costs
- Save time
- Protect property and the environment
- Solve pest problems sensibly, permanently, affordably



Maine Requires all K-12 Schools to Use Integrated Pest Management (IPM)

- Must Adopt IPM Policy
- Appoint IPM Coordinator
- Notify Parents and Staff of IPM Policy and Before Pesticide Use
- Keep Pest Monitoring and Management Records 2 yrs
- Pesticides used only by licensed applicator (except for bees & wasps)

**Pests, Pesticides and
Maine Schools—
What You Need to
Know**



**Integrated Pest
Management
Best Practices for Healthy,
Well-Managed School
Buildings and Grounds**

**MAINE DEPARTMENT OF AGRICULTURE,
CONSERVATION AND FORESTRY
SCHOOL IPM PROGRAM**

IPM is.....

- **Prevent:** Seal pest entryways eliminate pest-friendly conditions
- **Monitor and Identify** pests
- **Give Pests the 1-2 Punch:** Use and coordinate combos of anti-pest tactics
- **Keep Records and Evaluate outcomes regularly**



IPM

IPM Relies on Prevention

- Inspect regularly
- Maintain and Repair Bldgs and Grounds
- Seal Pest Entryways
- Deep Clean



IPM Relies on Training, Documentation Communication and Accountability

**Health &
Wellness
Coordinator**

Business Manager:
contracts, budgeting

**School
Nurse**

*Contracted
pest
professional
if have one*

**Students
&
Teachers:**
education,
sanitation,
monitoring



Custodians:
Sanitation,
monitoring,
pest
reporting

Maintenance Staff:
pest exclusion &
monitoring

Sports Staff:
scheduling, turf
protection

Office Staff:
communication,
records, scheduling

Kitchen Staff:
pest prevention
& monitoring



Write an **IPM Service Contract** not a Pest Control Service Agreement

- **Monitoring Plan:** to detect Pest Activity and Pest Conducive Conditions. Specifying
 - Sites to be inspected,
 - Type and number of traps, how often cleaned and serviced, a floor map showing their location, unique identification codes for each.
- **Pest Management Action Plan**
 - Non-chemical methods to be used first
 - Product labels for pesticides that may be used if needed
- **Communication** protocol clearly established between IPM Coordinator and contractor.



Specify Detailed Service Record Requirements

- Detailed records provided at each service visit
- Pest-conducive conditions documented and clearly communicated to school staff.
- Does contractor use pest sighting log to record actions taken for documented pest sightings at each visit?

Review Your Service Records

- Pesticides used often?

Why? Root problem hasn't been resolved!

- Pesticides applied only with prior written authorization by IPM Coordinator?

- Does contractor provide written recommendations for non-pesticide solutions?



Seal building envelope instead of using poison bait stations!



How Cost Effective is your IPM Program?

- **Review Your District's IPM policy and procedures** with IPM Coordinator. Review pest sighting logs and pest management records.
 - *Frequency and kinds of pesticide use?*
 - *Are non-pesticide methods also used?*
 - *Pests effectively managed? Or recurring problems?*
- **Review budget** (bldgs. & grounds maintenance, custodial, pest management contracts, landscape/turf contracts).
 - *Is it adequate for staff and contractors to address pest prevention and management tasks in timely manner?*

IPM Budget/Risk Calculator

- www.ipmcalculator.com





Do a Building and Grounds Walkthrough with Your Facilities Director Yearly

Maine School IPM Checklists

(maine.gov/schoolipm):

- Maine School IPM Compliance Checklist
- School IPM Inspection Checklist
- Job-Specific Checklists (School IPM Toolkit)

EPA Tools for Schools (epa.gov/iaq/schools):




- Walkthrough Checklist, Problem-Solvers, Guidance, More



New Resource! www.ischoolpestmanager.org

iSchool PEST MANAGER

About	What's New?	File Types	Regulations	Training Modules	Document Toolbox	Pests	Help	Contact Us	Show Me Everything	AA
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Go Local	Just For You	What's Bugging You?	Document Toolbox
			
State resources	IPM Coordinators	Ants	Templates
State IPM Programs	Facility Managers	Bees & Wasps	Fact Sheets
Laws in each state	Custodial Staff	Cockroaches	Action Plans
State regulators	Grounds/Landscape	Pantry Pests/Stored Products	Presentations
University Extension	School Nurses	Public Health	Training
	Kitchen Staff	Wood-Destroying Organisms	Guidelines
	Teachers	Flies	Checklists
	Administrators	Occasional Invaders	Regulations
	Pest Mgmt. Professionals	Spiders	Posters/Signs
	All Hands	Rodents	Log/Forms
		Weeds	Award/Certificate
		Wildlife	

- Training Modules
- Pest How-To Factsheets
- And more



New Resources

- **StopSchoolPests.org**: certificate program for IPM training
- **IPM Service Contract Guidance (EPA)**
- **Maine School IPM e-Newsletter** (sign up at maine.gov/schoolipm)
- **School Nurse IPM Training Project** (send me your school nurses!)

Maine School IPM Program

ME Department of Agriculture, Conservation and Forestry

- Templates
- Training
- Tools
- Guidelines
- Newsletter
- Consultation
- Pest Identification

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[207-215-4793](tel:207-215-4793)

Maine School IPM Program - Windows Internet Explorer provided by IEB Policy Ver. 8 - State of Maine

http://www.maine.gov/agriculture/pesticides/schoolipm/index.htm

www.maine.gov/schoolipm

Maine School IPM Program

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SCHOOL IPM

- What is School IPM?
- Tools, Templates and Tips
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School IPM: Dedicated to reducing risks of pests and pesticides in Maine Schools

Done Trusted sites