

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

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Maine School IPM Program

Maine Department of Agriculture, Conservation and Forestry

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)



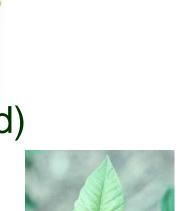
*Excluding costs from lost work time, hospital physician fees, and pesticide-induced cancers





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

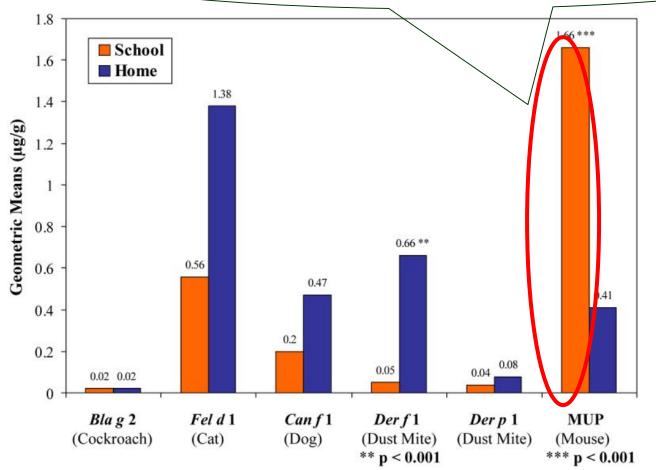




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Pests and Asthma in Schools

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 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):

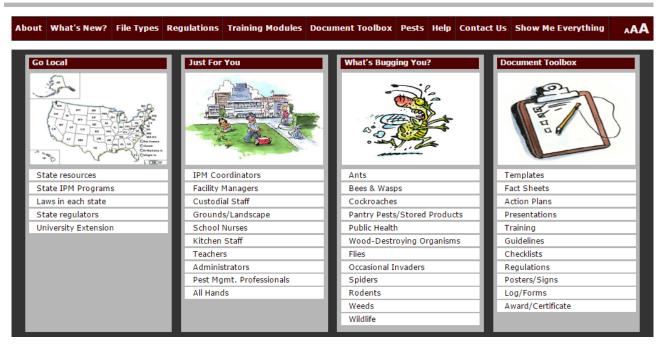
- Maine School IPM Compliance Checklist
- School IPM Inspection Checklist
- Job-Specific Checklists (School IPM Toolkit)

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

 Walkthrough Checklist, Problem-Solvers, Guidance, More

New Resource! www.ischoolpestmanager.org

iSchool PEST MANAGER **



- 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

Maine School IPM Program - Windows Internet Explorer provided by IE8 Policy Ver.8 - State of Maine V 🗟 😽 🗶 Dive Search //www.maine.gov/agriculture/pesticides/schoolipm/index.htm Favorites Tools Help www.maine.gov/schoolipm Maine.º Maine School IPM Program ne | Contact Us | Search Agency: What is School IPM? Tools, Templates and Maine School IPM Manuals Got Pests?) Workshops Newsletters Web Resources Contact Us and pesticides in Maine Schools

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