



Maine School IPM Coordinator Training

Part 1 – Introduction to IPM

Maine School IPM Program

Maine Department of Agriculture, Conservation and Forestry





IPM Coordinator Comprehensive Training

Part 1: IPM Coordinator's Role

- Why IPM is Needed in Schools
- What is IPM?
- IPM Coordinator's Role
- Where to Find Checklists, Forms, Guides and other resources



Why is **I**ntegrated **P**est **M**anagement Needed?

- Protect Health
- Protect Buildings and Grounds
- Protect Environment
- Save Time and Money



IPM: Effective, Least-Risk Pest Prevention and Management

Pests Can Pose Risks to People

- Asthma & Allergies: *mice, cockroaches, mold*
- Bites & Stings: *lice, bed bugs, mosquitoes, ticks, bees/wasps, stinging caterpillars*
- Infectious Disease: *bats, ticks, mosquitoes*
- Irritants: *poison ivy*



Pests Can Damage Buildings and Grounds

- Hardscapes & Foundations: *weeds*
- Turf, Trees, and Ornamental Plants: *weeds, insects & mites, plant diseases*
- Wood Destroyers: *wood rot fungi, insects*



Pesticides Can Also Pose Risks

- Human Health Risks
 - Immediate and delayed
- Environmental Impacts
 - Water, Air, or Soil
 - Beneficial organisms
- Pest Resistance



Pesticide Applicator License Required for Most Pesticide Applications in Schools

Maine's School Pesticide Regulations

Apply to all schools serving any grade K-12

- ▶ All buildings and structures: School buildings, portable units, maintenance sheds, snack shacks
- ▶ All grounds: playgrounds, sports fields, gardens, agricultural fields, greenhouses
- ▶ Private or public properties used primarily and regularly for school-related activities
 - ▶ Including ball fields owned or managed by town or non-profit organization
- ▶ Does **not** include non-school properties used **mostly** for non-school activities such as
 - ▶ Public or private golf courses and tennis courts
 - ▶ Museums, parks or buildings visited on field trips



Standards for Pesticide Application and Public Notification in Schools (Chapter 27)

All K-12 Schools are required to:

- Adopt an IPM Policy
- Appoint an IPM Coordinator
- Notify parents & staff and post signs before most pesticide applications
- Use IPM to prevent and manage pests

01	DEPARTMENT OF AGRICULTURE, FOOD & RURAL RESOURCES
006	BOARD OF PESTICIDES CONTROL
Chapter 27:	STANDARDS FOR PESTICIDE APPLICATIONS AND PUBLIC NOTIFICATION IN SCHOOLS
<hr/>	
SUMMARY: These regulations establish procedures and standards for applying pesticides in school buildings and on school grounds. This chapter also sets forth the requirements for notifying school staff, students, visitors, parents and guardians about pending pesticide applications.	
<hr/>	
Section 1.	Definitions
A.	Integrated Pest Management. For the purposes of this regulation, Integrated Pest Management (IPM) means the selection, integration and implementation of pest damage prevention and control based on predicted socioeconomic and ecological consequences, including:
(1)	understanding the system in which the pest exists,
(2)	establishing dynamic economic or aesthetic injury thresholds and determining whether the organism or organism complex warrants control,
(3)	monitoring pests and natural enemies,
(4)	when needed, selecting the appropriate system of cultural, mechanical, genetic, including resistant cultivars, biological or chemical prevention techniques or controls for desired suppression, and
(5)	systematically evaluating the pest management approaches utilized.
E.	School. For the purposes of this regulation, School means any public, private or tribally funded:
(1)	elementary school,
(2)	secondary school,
(3)	kindergarten or
(4)	nursery school that is part of an elementary or secondary school.

Notice About Your IPM Policy Must be Published in Policy Handbooks (Student/Parent and Staff Handbooks)

Specific statements and information must be included:

- IPM Coordinator's name and contact info
- NEW (under Gov Exec Order) Statement that disinfectants will be applied with powered sprayers (if applicable)
- And more

Notice Regarding School Integrated Pest Management (IPM) Policies

Pest Control

Because pesticides pose risks, the school uses an alternative approach to merely applying pesticides. Control of insects, rodents, and weeds at our school focuses on making the school buildings and grounds an unfavorable place for pests to live and breed. Through maintenance and cleaning, we will reduce or eliminate available food and water sources and hiding places for the pests. We will also routinely monitor the school area to detect pest problems and prevent the pests from becoming established. Some techniques we will use include pest monitoring, sanitation, pest exclusion, proper food storage, pest removal, good turf and plant care, and—as a last resort—pesticides. This holistic approach is often called Integrated Pest Management (IPM).

Pesticide Use

Sometimes pesticide use may be necessary to control a pest problem. When that happens, the school will use the lowest risk approach available. If higher risk pesticides must be used, notices will be posted at application sites and advance notice will be sent home with students.

Your Right to Know

Parents, legal guardians, and school staff will be notified about certain pesticide applications made at the school. Notification will be given at least five days before planned pesticide applications during the regular school year. In addition, for pesticides applied anytime during the year, notices will also be posted in the school and on school grounds two working days before until 48 hours after the application. Notification need not be given for pesticide applications recognized by law to pose little or no risk of exposure to children or staff.

The school also keeps records of pest monitoring, pesticide applications and information about the pesticides used. You may review these records, a copy of the School's Integrated Pest Management Policy and the Pesticides in Schools regulation (CMR 01-026 Chapter 27) by contacting our IPM coordinator, _____, at _____.

If you have any questions, please contact _____. For further information about pests, pesticides and your right to know, call the Board of Pesticides Control at 207-287-2731 or visit the Maine School IPM web site at www.thinkfirstspraylast.org/schoolipm.

Download sample notice at www.maine.gov/schoolipm >
Templates

Pesticide Notices and Signs

- Notify parents and staff 5 working days before pesticide applications (unless exempted)
- Post signs 2 days in advance

Pesticide Application Notice Template

Dear Parent, Guardian or Staff Member:

I am writing to let you know that a pesticide with the trade name of _____, and the EPA registration number of _____, is scheduled to be applied on _____ (date), at the specific location of _____. This is being done to help manage _____ (name of pest) as part of our Integrated Pest Management Program to ensure a healthy school environment. Signs will also be posted at access points and at this central location _____ at least two working days prior to, and will remain posted for 48 hours after, the application. This notice is being provided at least five days prior to the planned pesticide application in accordance with our school's Integrated Pest Management Policy and in compliance with Maine Board of Pesticides Control Regulation CMR 01-026 Chapter 27.

For further information regarding this action please contact the IPM Coordinator _____ at _____.

CAUTION

PESTICIDE APPLICATION NOTICE

On May 15, 2003 at 6:30 am, the insecticide Talstar F (EPA Registration # 279-3162) will be applied in the library to control carpenter ants.

All students, staff and visitors must stay out of the library until the spray has dried (Approx. 24 hours).

If you have questions about this application, please contact our Facilities Maintenance Director at 555-9999.



IPM Coordinator must Complete all of these Trainings:

- ▶ Initial Training Module (on-line self-paced)
- ▶ Comprehensive IPM Training (today's webinar)
- ▶ Annually obtain at least one hour of BPC-approved continuing education
- ▶ Find workshop announcements and training modules at www.maine.gov/schoolipm



For More Guidance on Notification, Record-Keeping, Pesticide Use Requirements

www.maine.gov/schoolipm > Training and Events

Integrated Pest Management

School IPM—Training and Events

On this page: [Mandatory Training for IPM Coordinators](#) | [Presentations](#) | [On-Line Training Modules](#) | [Videos](#) | [Webinar Archive](#)

NEW **Pesticide Applicator Training for School Disinfection.** Under Governor Mills Executive Order 7 FY 20/21 school employees who have completed [Disinfectant Applicator Training](#) and [Disinfectant Applicator Exam](#), are temporarily exempted from pesticide licensing requirements for the use of powered equipment (such as electrostatic sprayers) for application of disinfectants and sanitizers when used for routine cleaning. Additional requirements for the use of powered sprayers by school staff can be found on the [Maine School IPM COVID-19 webpage](#).

Non-School Personnel (such as private bus service drivers and private cleaning service staff) must have a Commercial Pesticide Applicator license to use powered application equipment such as electrostatic sprayers in/on school property (including buses). [Licensing Brochure](#) (PDF). FMI: [Board of Pesticides Control](#).

- Commercial Applicator Core Training Webinar [recorded webinar](#) [slides](#)
- Commercial Applicator Microbial Control Training Webinar [recorded webinar](#) [slides](#)

Mandatory Training for IPM Coordinator

1. within one month of appointment complete **Initial Training Module** [[PDF](#) or [PowerPoint Show](#)] **AND**
2. within 12 months of appointment attend a **Comprehensive Training Workshop** (see schedule below) **AND**
3. earn **1 hour of Continuing Education credit** per year. To earn CE credits:

- **Attend 1 hr or more of a Comprehensive IPM Workshop OR**
- **Participate** Complete 1 or more hours of training on any topic related to environmental health, pest prevention and management, or building and grounds maintenance offered by a reliable organization such as the recorded webinars, presentations, and videos listed below. [Keep a record](#) of your participation in your Pest Management Activity Log.

- See the Initial Training Module

Mandatory Training:

1. Within one month of appointment complete Initial Training Module (PDF or Powerpoint Show)

Schools are Required to Use IPM

- Use pesticides only as part of a comprehensive IPM approach to pest prevention and management
- Monitor and identify pests
- Keep Pest Management Activity Log
 - pest monitoring records
 - pest management action records
 - pesticide application records (including powered disinfectant applications)



IPM: Pest Prevention and Management is Essential to

- Food Safety
- Indoor Air Quality
- Sports Safety
- Property Management



IPM is A Risk Management Tool

- Reduce pest-caused risks
- Promote chemical safety
- Improve indoor air quality
- Reduce risks of environmental impact
- Universally recognized as ‘Best Practice Standard’



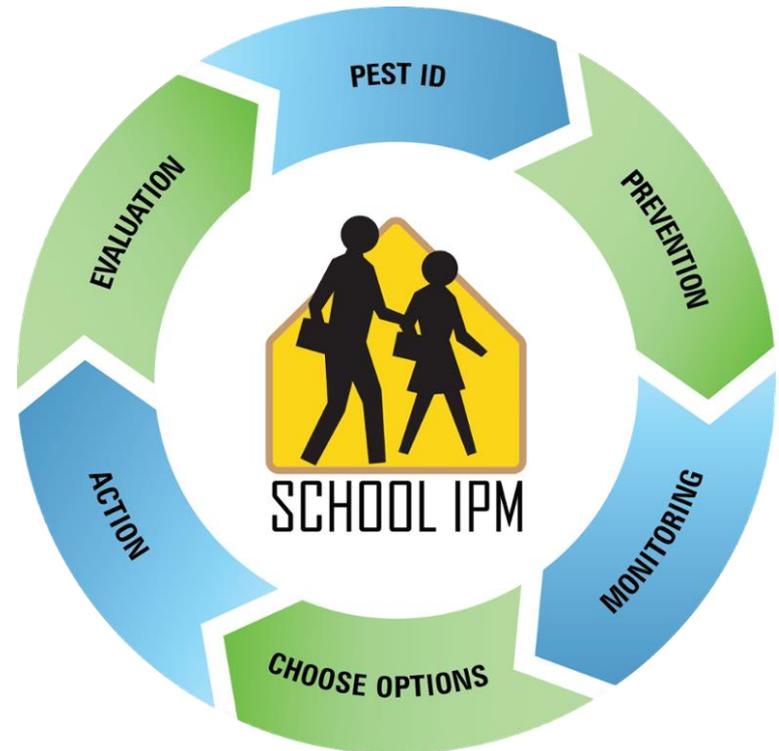
Integrated Pest Management

IPM = Best Management Practice

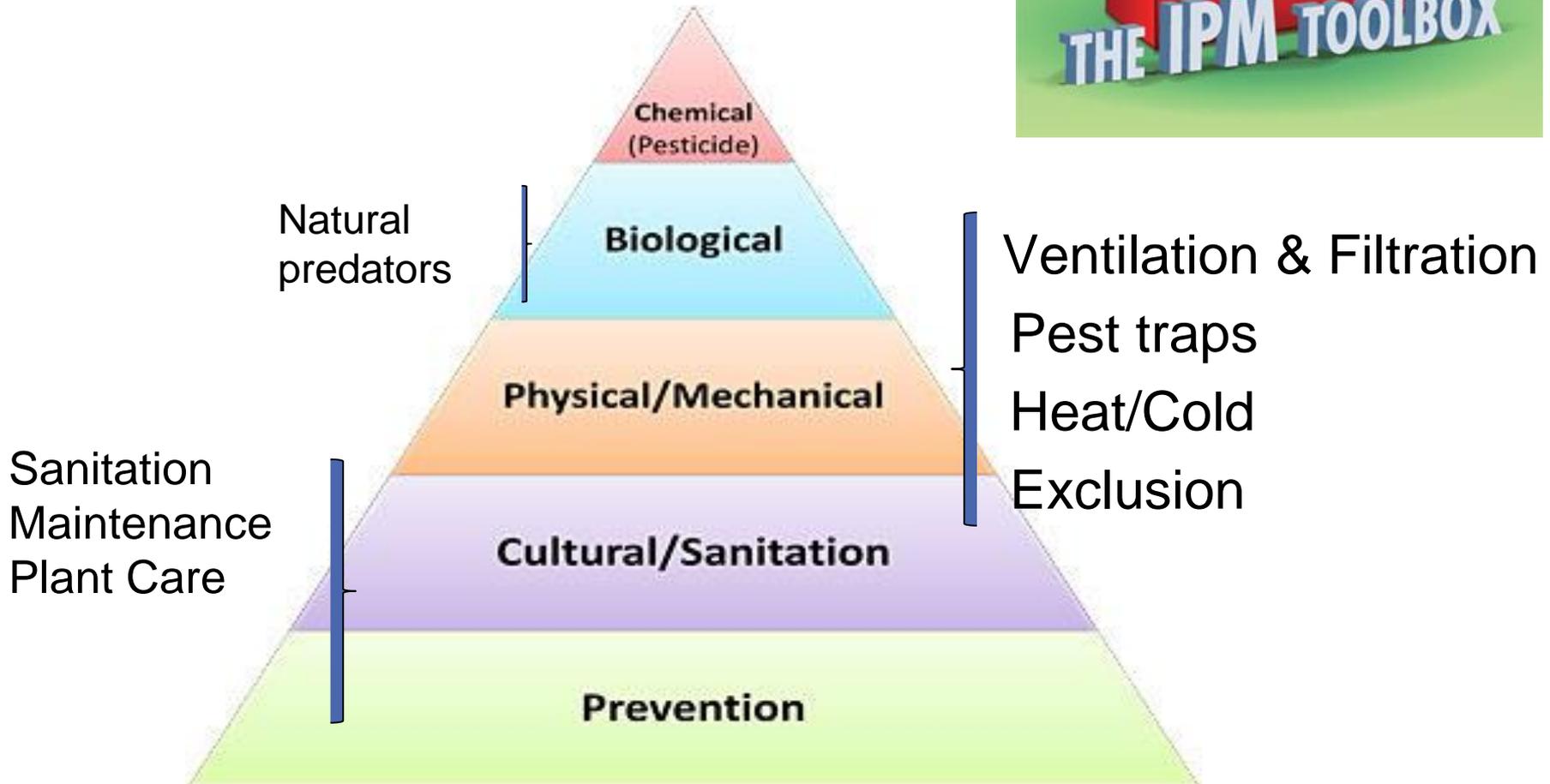
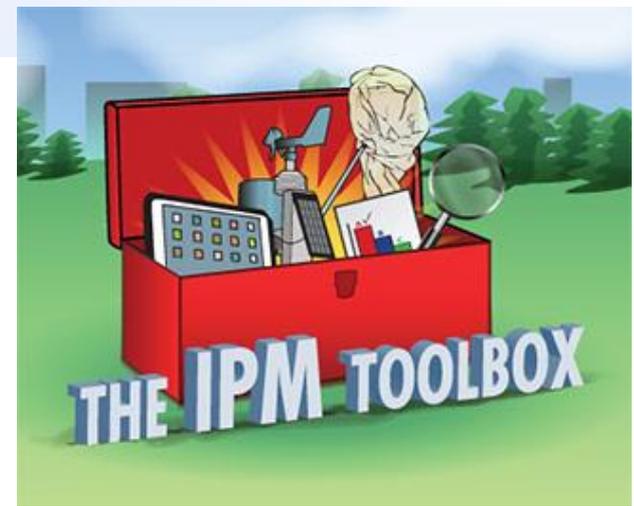


Focuses on:

- Prevention
- Monitoring
- Strategic action when/if needed
- Communication and documentation
- Evaluation



IPM Toolbox of Anti-pest Tactics



IPM is NOT...

- NOT ..Preventive pesticide use
- NOT ..Using only organic or natural pesticides
- NOT ..Waiting for pest problems to occur
- NOT ..Leaving all pest-related issues to the contracted pest service





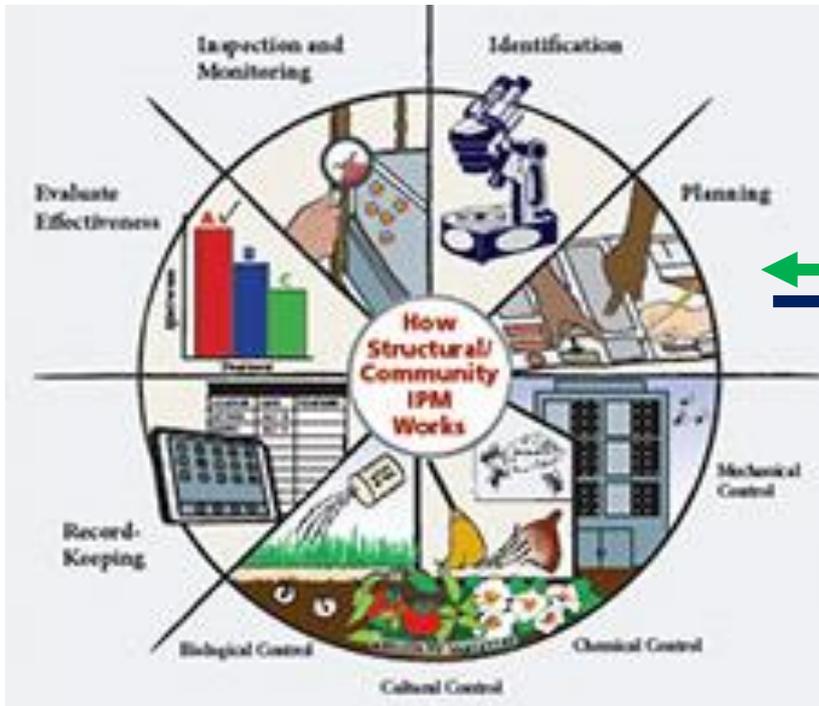
Knowledge Check:

What is IPM?

- a) Organic pest control
- b) Best left to a professional pest control service
- c) A holistic approach to preventing and managing pests based on prevention, monitoring, and strategic use of anti-pest tactics.

Answer: A holistic approach to preventing and managing pests based on prevention, monitoring, and strategic use of anti-pest tactics.

Integrate IPM into Normal Operations



IPM is a Team Effort

Maintenance Staff: pest exclusion
& monitoring

Custodians:
Sanitation,
monitoring,
pest
reporting

**Contracted pest
Service:**
monitoring, control
communication

IPM Coordinator is the Team Captain



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

**Food Service Director
and Staff:** pest
prevention & monitoring

Office Staff:
communication,
records, scheduling



IPM Coordinator is Responsible for Implementing your Schools' IPM Policy

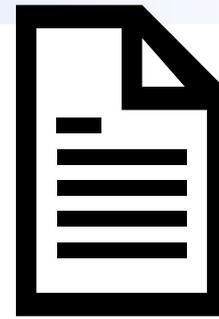
- **Coordinate** pest monitoring, management, and record-keeping.
- **Approve** pesticide applications (based on informed decisions).
- **Document** that all notification and record-keeping requirements are met.
- **Communicate** with staff, parents, contractors

You are in Charge...Take the Helm!



Getting Started

- Review IPM Policy
- Review Pest Activity Logbook records
- Meet with your IPM Team (nurse, food service director, custodian supervisor, maintenance supervisor, transportation director, administrative team, groundskeeper, etc).
- Meet with contracted service providers
- **Goal:** Establish communication, reporting and action protocols for all school staff and contractors.



IPM Policy



Getting Started

- School IPM Toolkit:
 - Getting Started Guidance
 - Job Specific Guidance and Checklists
 - Pest-specific IPM guides
 - Sample Forms
 - Sample Plans



www.maine.gov/schoolipm > Templates, **Tools** and Tips

www.maine.gov/schoolipm > Templates, **Tools** and Tips

About DACF | Animal Health

DACF Home > Bureau

Divi:
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Tools

- [Sample IPM Plan \[PDF or Word\]](#)
- [IPM Compliance Checklist \[PDF\]](#)
- [IPM Inspection Checklist \[PDF or Word\]](#)
- [IPM Scouting Report Form \[PDF\]](#)
- [New! Sports Field Assessment Tool \[PDF\] \(University of CT\)](#)
- [New! Landscape Assessment Form \[Word\] \(University of CT\)](#)
- [Pesticide Notice and Labeling Requirements \[PDF or Word\]](#)
- [Maine School IPM manuals \(How-To Guides\)](#)
 - ⊕ [School IPM Tool Kit \(REVISED in 2017\) \[Word\] \[PDF\] Cover/Spine](#)
 - Everything you need in one place! Checklists; customizable notices, signs, and letters; guidance documents; action plans, and more.
 - ⊕ [Outdoor IPM for Maine Schools \[PDF\]](#)
 - Schools are complex systems including different physical spaces, indoors and out. Most school buildings are unintentionally built with inconspicuous entry points and shelter for insects, rodents, and other unwelcome wildlife. This manual will assist school IPM coordinators with outdoor pests.
 - ⊕ [IPM for Northeast Schools \[PDF\]](#)
 - This booklet was developed to help school personnel specifically in the Northeast establish a comprehensive IPM program. This includes developing an IPM policy statement, identifying roles and responsibilities of members in the school community, and providing an IPM bid specification to use in contracting with outside pest management contractors.

SCHOOL IPM
How to sign
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Integrated
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Position' b
our IPM
iff Report u
line [NEO](#)

[Tips](#)

Assign Responsibilities

- Identify who is responsible for what
- Make sure whole school and all responsibilities are included
- Download, customize and distribute factsheets, checklists, educational materials to relevant staff, parents, students
- Request hard copies of Ounce of Prevention Brochure and Wallet Cards (while supplies last)



An Ounce of Prevention! Integrated Pest Management (IPM) For Schools and Child Care Facilities

This brochure is intended for school and child care facility staff, parents, and pest management professionals.

Everyone has a role in IPM to prevent and manage pests in and around schools and child care facilities.

Follow all appropriate federal, state, and local regulations. Always read and follow label directions before buying or using a pesticide.

Free IPM Training Modules and Resources

DOWNLOAD THIS LESSON [POWERPOINT](#)

IPM in Schools for Food Service Staff (Self-Guided) Lesson 1 of 2

IPM FOR FOOD SERVICE STAFF

Upcoming Comprehensive IPM Workshops

Date	Time	Program
10/30/20	8:00am-11:00am	Comprehensive IPM Training webinar. Register for link to this free webinar.

Questions? Or to schedule a workshop in your area, contact Kathy Murray at kathy.murray@maine.gov or 287-7818.

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Presentations

- Virtual IPM Workshop Apr 24 2020: IPM and Cleaning for Microbial and Rodent Pests [\[PDF\]](#)
- Maine School IPM Coordinators Role [\[PDF\]](#) or [\[PPT\]](#)
- Interpreting Pesticide Labels and Record-Keeping Requirements [\[PDF\]](#) or [\[PPT\]](#)
- Pest Problem-Solving Exercises [\[PDF\]](#)
- What to Expect When You're Inspected [\[PDF\]](#)
- Pesticide Choice [\[PDF\]](#) or [\[PPT\]](#)
- Turf Pest Management [\[PDF\]](#) or [\[PPT\]](#)
- Ants, Mice, Bed Bugs and Other Critters: Solutions to Common and Challenging Pests [\[PDF\]](#) or [\[PPT\]](#)
- Got Pests? Maintenance Solutions to Pest Problems [\[PDF\]](#) or [\[PPT\]](#)
- Enhancing Your School IPM Program [\[PDF\]](#) or [\[PPT\]](#)
- Pest Specific Strategies [\[PDF\]](#) or [\[PPT\]](#)
- School Business Officials- New Resources for IPM [\[PDF\]](#) or [\[PPT\]](#)
- Weeds: IPM Strategies for Long-term Prevention of Weeds [\[PDF\]](#)
- Biocontrol on School Grounds [\[PDF\]](#)
- Turf Insect IPM [\[PDF\]](#)

New! Online Training Modules

- [StopSchoolPests On-line Training Modules](#) (free professional development training modules from IPM Institute for custodians, maintenance staff, administrators, school nurses, food service, teachers, and more).

Videos

- **NEW!** [School IPM How-to Videos](#) (California DPR) 5-10 mins each



Education Module

STOP School PESTS

slide 1 / 53

Set up **Pest Management Activity Logbooks** for Your Schools

Include records for:

- Pest monitoring/sighting
- Pest management
- Pesticide authorization
- Parent/Staff notification
- Pesticide application
- Pesticide product labels



Record-keeping Guidance and Sample Record-keeping Forms Available

- www.Maine.gov/schoolipm > Tools, **Templates**, Tips

3

Pest Management Activity Log Page 3—Pesticide Application

Use this page when pesticide applications are necessary. Use the chart to determine if authorization, notification and/or signage is required. The Reference Number refers to a matching pest sighting entry on Page 1—Monitoring/IPM in the logbook.

Site _____ (can be building and room, field, playground, etc)

Reference Number from Monitoring/IPM page _____

1) What is the pest? How was the pest identified?

2) How was it determined that a pesticide application was necessary? Include information about the safety, economic or aesthetic threshold reached (see Chapter 27 section 5C)

3) Application information:

Date/Time _____ Applicator Name _____

Product Trade Name _____ Applicator License # _____

EPA Reg # _____ Company _____

Pest Management Activity Log Monitoring/IPM

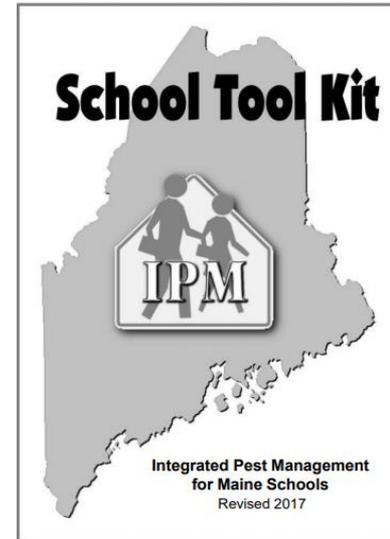
Site _____ (can be building, room, field, playground, etc)

Date/Time	Pest(s) or Evidence Seen/Extent of Infestation	Specific Location (under sink, west goal soccer field, etc.)	By Whom	Company	IPM Steps Taken*	Appl. No. **

Establish Protocols for Prevention and Response to Common Pest Issues

Guidance available at:

- www.Maine.gov/schoolipm> toolkit
- www.Maine.gov/schoolipm> pest solutions



Implementing IPM: Thorough Cleaning is #1 Pest Prevention Strategy



Work with Principal, Coaches, Teachers and Booster Clubs to Eliminate Pest-Friendly Conditions

- All food stored in pest-proof containers
- No clutter! Organize storage! Clean and dust regularly
- Monitor for pests regularly



Store food in pest proof containers. Clean scrupulously. Manage waste properly. Install and check pest traps.



Work With Food Service to Eliminate Pest Friendly Conditions



- Promptly inspect, unpack, discard cardboard boxes
- Store food in pest-proof containers, up off floor on wire shelving
- Keep floors and all surfaces surfaces scrupulously clean
- Install and monitor mouse and insect traps

Keep Dry Storage Clean, Dry and 'Inspectable'



- Wire 'see through' cleanable shelving
- 6-12" clearance underneath
- Limit cardboard – mice and cockroaches love it!
- No long-term storage of materials or equipment

Clean Floor Drains Regularly

Flies and Roaches Live in Dirty Drains!

Use:

- Enzyme cleaners eat the gunk
- Long-handled brush to clean inside drain
- Flush with hot water



Drain Fly



duction to IPM



Regular and Systematic Monitoring: Essential to IPM

- Inspect for and report pest evidence & pest-friendly conditions
- Follow up to ensure action was taken
- Keep monitoring to ensure actions were effective!



Inspect Thoroughly and Often

- Look for droppings, gnawing damage, holes, food, spills, crumbs, grease, garbage, clutter, moisture
- Prioritize areas with food, water, pest hiding places
- Use flashlight, checklist and clipboard
- Look under, around, over equipment



Inspect and clean under, around and behind everything in kitchen, pantry and cafeteria.



02/19/2005



Inspect along walls, under and behind equipment, especially near food (pantry, classrooms, breakrooms, kitchens)

Find, Report and Seal Pest Entryways



Critter entryway. Seal this up to keep critters out!

Install and maintain door-sweeps to keep mice and insects out





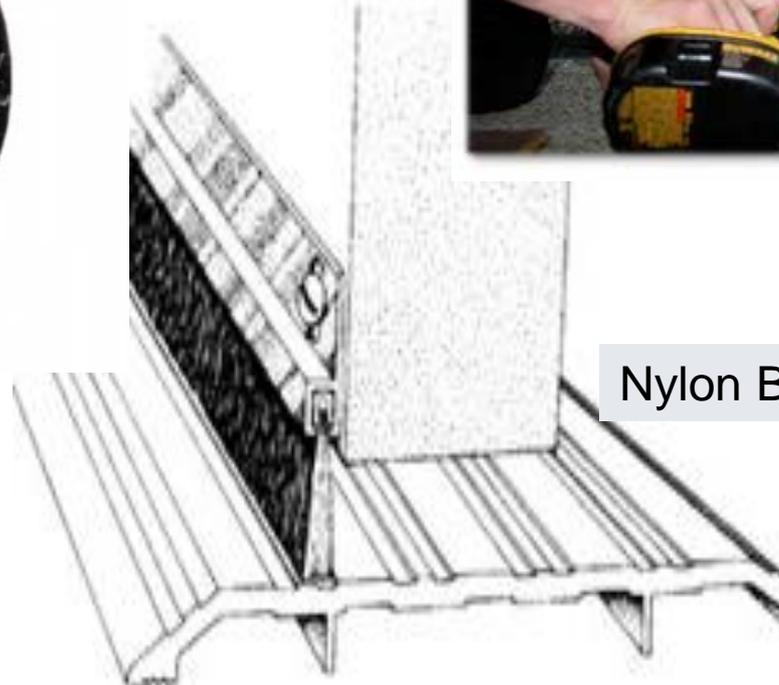
Install and Maintain Sweeps on Exterior Doors



Rubber-
encased Steel
Fabric Type



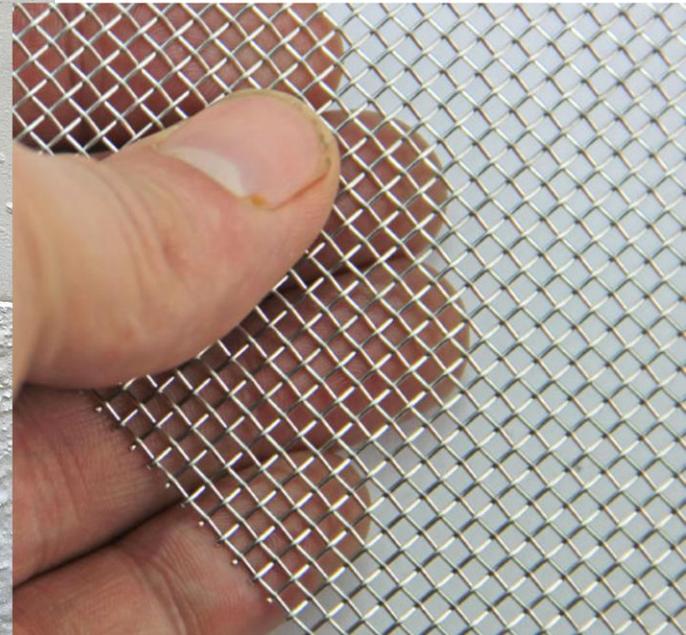
Nylon Brush Type



Seal Gaps $>1/4$ " with metal or concrete



Seal Entryways with $\leq \frac{1}{4}$ " Steel Mesh



Inspect Exteriors Regularly

- Building exterior (roof, walls, foundations, gutters)
- Fences, playgrounds, fields
- Outbuildings, sheds, portables
- Dumpsters, recycling, garbage cans



Pests with good turf and
pe maintenance
ze based on soil tests
on to reduce compaction
eeding
mowing practices
watering practices

Find guidelines and resources at:
Maine.gov/schoolipm > Pest Solutions >
Turf and Lawn

Best Management Practices Athletic Fields & School Gro

#1 Goal—Reduce human pesticide exposure!

- ◆ Minimize pesticide use
- ◆ Maintain healthy plants
- ◆ Choose pest resistant plant varieties
- ◆ Apply spot treatments whenever possible
- ◆ Choose products proven to be effective at low application rates
- ◆ Choose products that leave little or no residue
- ◆ Apply when school is not in session or over extended vacations
- ◆ Keep people off treated areas for as long as possible
- ◆ Check product label for minimum reentry time

Other Ke Maintain Grounds Reducin

- ◆ Maintain
between
involved
and the 1
- ◆ Emphas
turf dens
need for
- ◆ Identify
confirm
levels be

Have a Planned Response Protocol for Common Pests

Including:

- Staff training
- Accurate pest ID
- Address the root cause of the problem
- Use proven methods
- Coordinate with contracted service provider if have one
- Keep records



Ant Management

Vacuum them up!



Clean up spills, crumbs and food



Wipe up ants and their invisible trails with soapy water.



Rinse and recycle beverage bottles promptly.

Keep Your Schools Rodent-free

- House mouse urine triggers asthma
- Deer mouse feces carries hantavirus (hemorrhagic fever).
- Rats: carry diseases. Bite humans. Chew wires.

House
Mouse

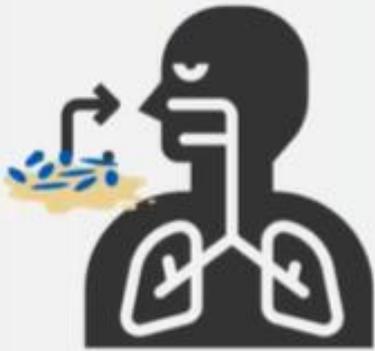


Deer Mouse

Norway Rat



How rodents can make you sick



**Inhaling dried rodent
urine or feces**



**Contaminated food
or water**



Direct contact



**Indirectly
from vectors**

Trapping to Monitor and Eliminate Rodents

Mechanical traps along runways



Look for
Rodent 'Trails'
Then close
the entryways
with metal or
concrete



Rodent Clean-Up

- Service box traps at least monthly, snap traps daily
- Wear gloves
- Wet down trap, rodent, droppings with disinfectant. Wait. Wipe up. Place toweling, rodent, gloves in plastic bag. Tie shut. Discard in trash.
- For large or complex rodent clean-up: hire a professional remediator
- US CDC Guidelines: search for 'Clean up Rodent'

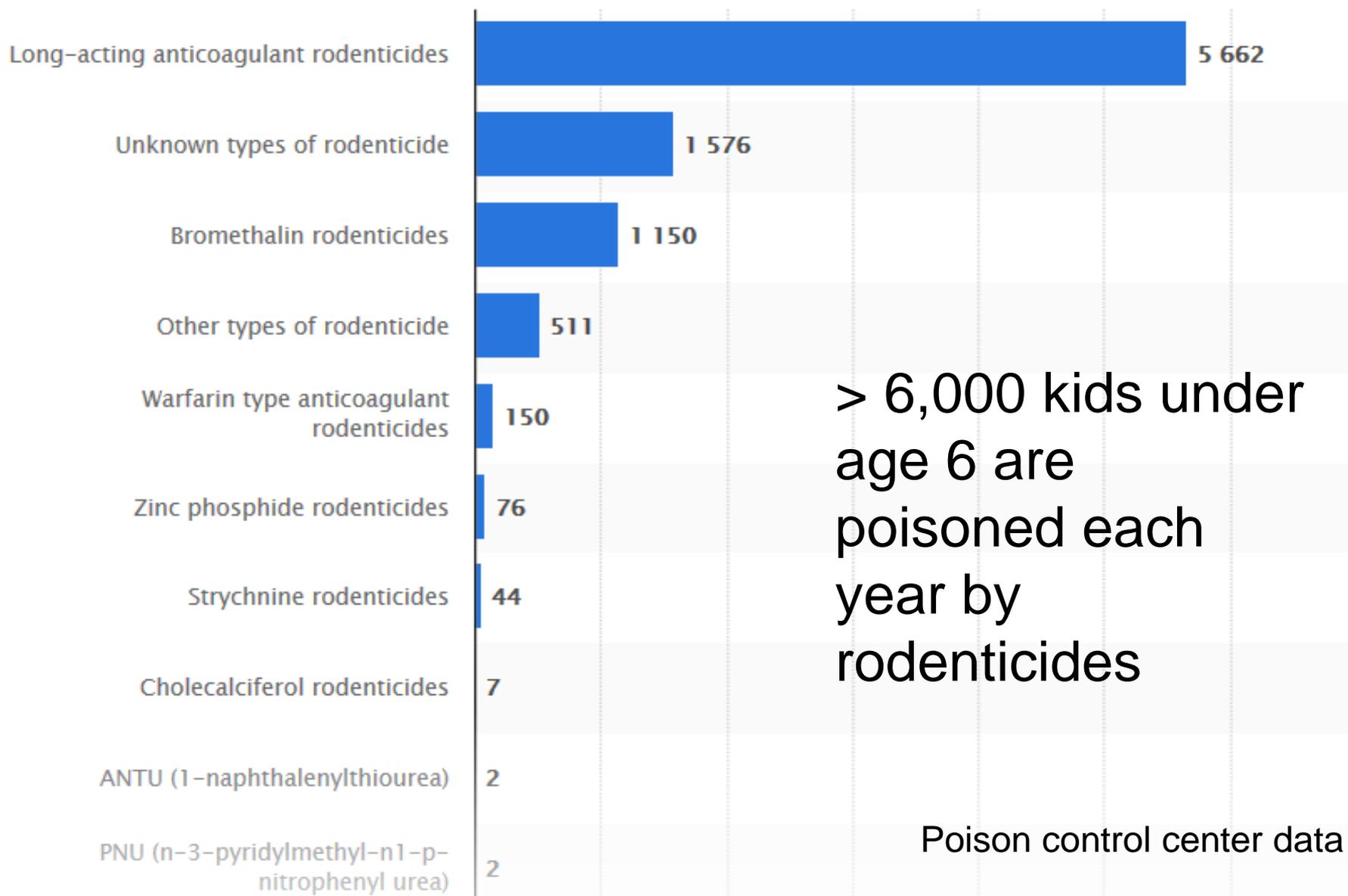


Rodenticides Rarely Needed

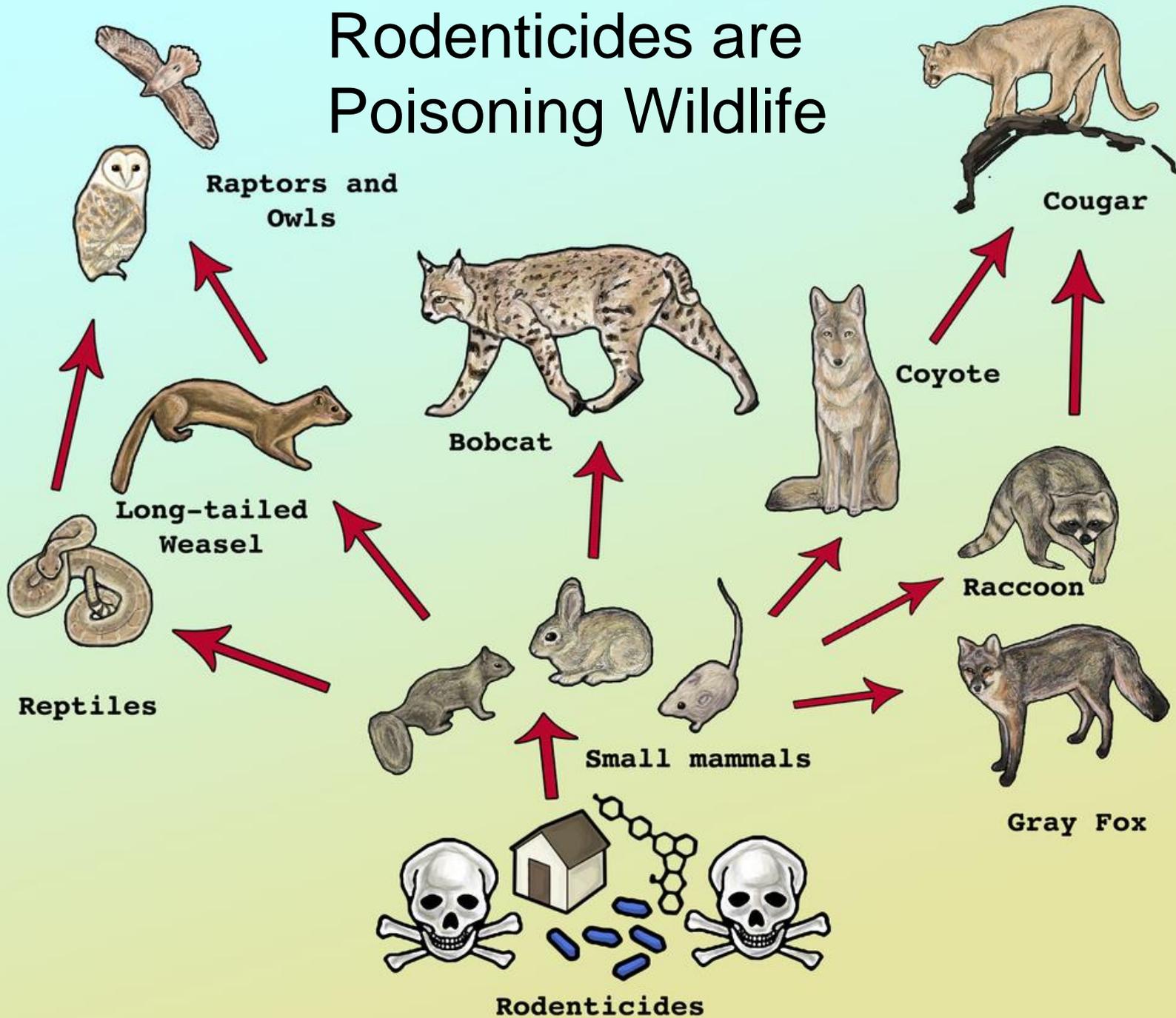
- Commercial License Required for Use at Schools
- Must be within 100' of a structure
- Must be inside a locked, secured box



Number of rodenticide poisonings in the U.S. in 2016,



Rodenticides are Poisoning Wildlife



Non-toxic 'Rodent Detection' Baits in Locked Exterior Rodent Station

- Useful for detecting and locating rodent activity



Rodent droppings glow under black light!



The IPM Coordinator Keys to Success

- Communicate
 - Everyone has a part in IPM
 - Reporting pests
 - Setting and checking traps, baits
 - Proper cleaning and maintenance
 - Making sure all required notices are given
- Record
 - Use a Pest Management Activity Log
 - Keeps you and outside contractors up to date
 - The rules require thorough records
- Approve
 - No pesticide applications allowed unless approved by the IPM Coordinator



Maine School IPM Program

ME Department of Agriculture, Conservation and Forestry

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

schoolipm@maine.gov

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

Maine School IPM Program - Windows Internet Explorer provided by IE8 Policy Ver. 8 - State of Maine

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

File Edit

www.maine.gov/schoolipm

Maine School IPM Program

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SCHOOL IPM Home

- What is School IPM?
- Tools, Templates and Tips
- Maine School IPM Manuals
- Got Pests?
- Workshops
- Newsletters
- Web Resources
- Contact Us

School IPM: Dedicated to reducing risks of pests and pesticides in Maine Schools

Done Trusted sites

