

Structural Pest Management IPM

BPC Structural Program, April 11 2023

Hillary Peterson, Ph.D.

Maine Department of Agriculture, Conservation and Forestry

hillary.peterson@maine.gov

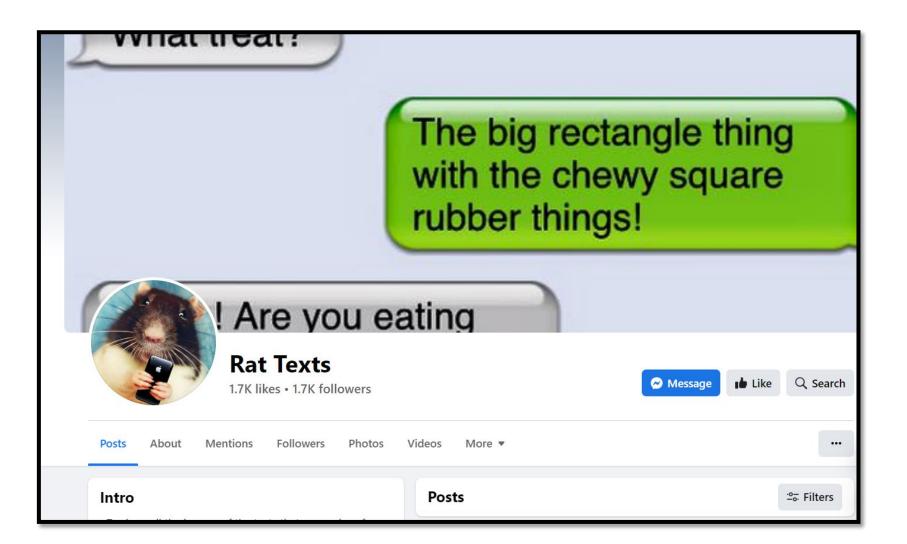
www.maine.gov/ipm



Photo: Airwolfhound (Flickr; CC BY-SA 2.0)

Rodents: Historical, Ecological, and Human Significance...







Global travelers with humans

Used in research for medicine and genetics





Beloved pets to many

Important members of many ecosystems



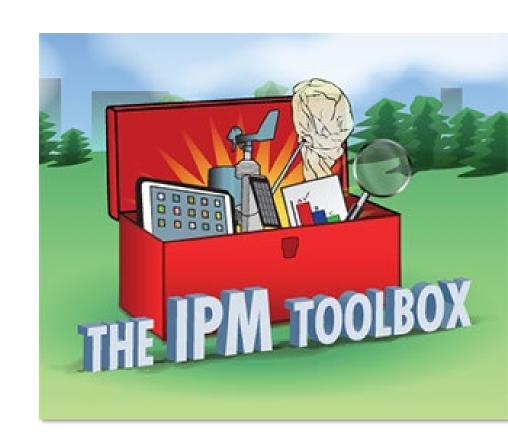


Pests of agriculture, structures, and disease vectors

Structural IPM Overview



- Common structural pests
- Overview of IPM concepts
- Examples of how structural pests are problematic
- Deep Dive: Rodent IPM
 (I wish I had the time to deep dive them all!)
- How IPM can improve your customer relationships





Bugs that Bite, Sting, or Spread Disease



Bedbugs



Fleas



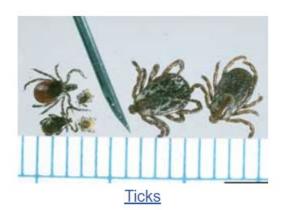
Bees, Hornets and Wasps



<u>Mosquitoes</u>



Cockroaches





Common Destructive Bugs



Carpet Beetles



Carpenter Ants



Clothes Moths



Lesser Mealworm



Mealworm



Flour Beetles



Fruit Flies/Vinegar Flies



Fungus Gnats



Round-Headed Borer



Shore Flies



Grain Beetles



Indian Meal Moth



Larder Beetle



Powderpost Beetles



Occasional Invader



Ants



Boxelder Bug



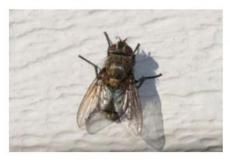
Carpet Beetles



Silverfish and Firebrats



Clover Mite



Cluster Flies



Earwig



Western Conifer Seed Bug



Millipede



Multicolored Asian Lady Beetle



Pseudoscorpion



Spiders Sources: All photo citations here



Other Critters and Home Problems



Bats



House Mice



Indoor Mold



Raccoons



Rats



Skunks



Snakes



Squirrels



Woodpeckers

Sources: All photo citations here

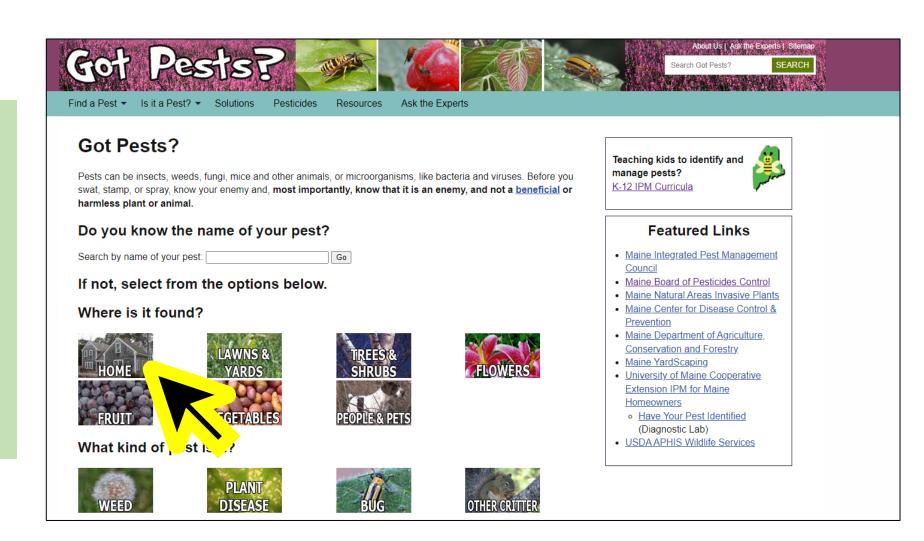
Species of Concern in Structures



The GotPests website is a great resource for investigating IPM methods for pests.

Individual pages for many groups and species, with links to further reading with factsheets.

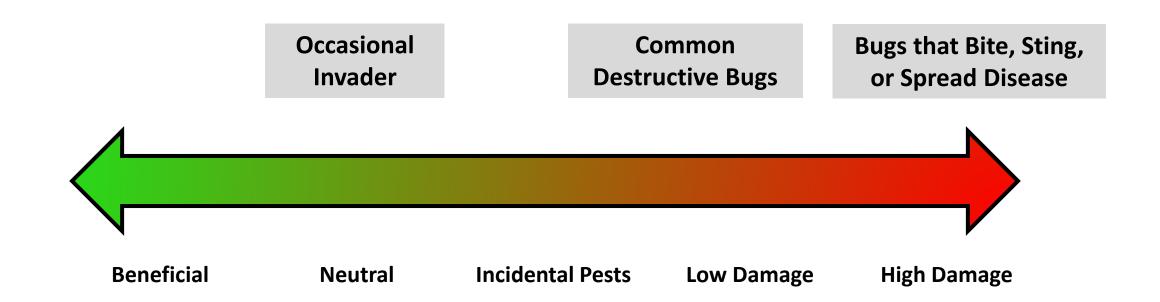
It is continuously updated with new materials as we come across them!



Sources: Gotpests.org

Why the categories?



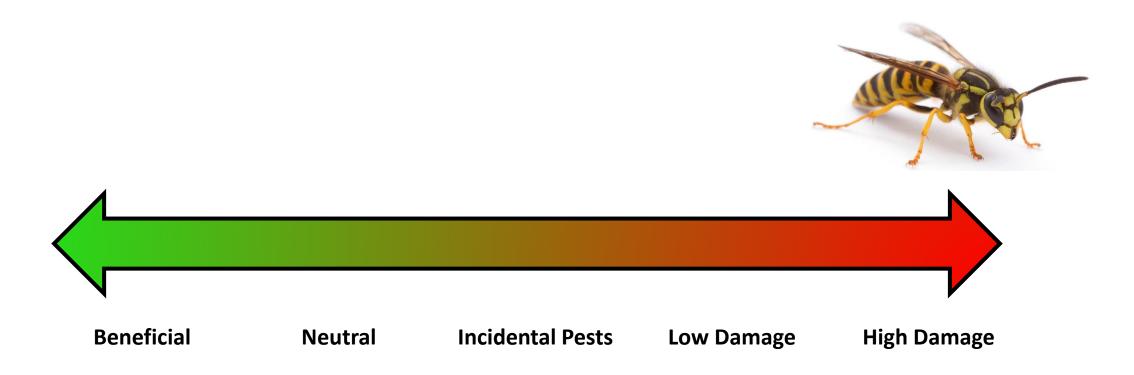


Factors:

Context, Perception, Personal Allowance, Understanding, Population Size, Health of Plants, Indoor vs. Outdoor etc.



A Yellowjacket: Nest hanging over the entrance of a school.

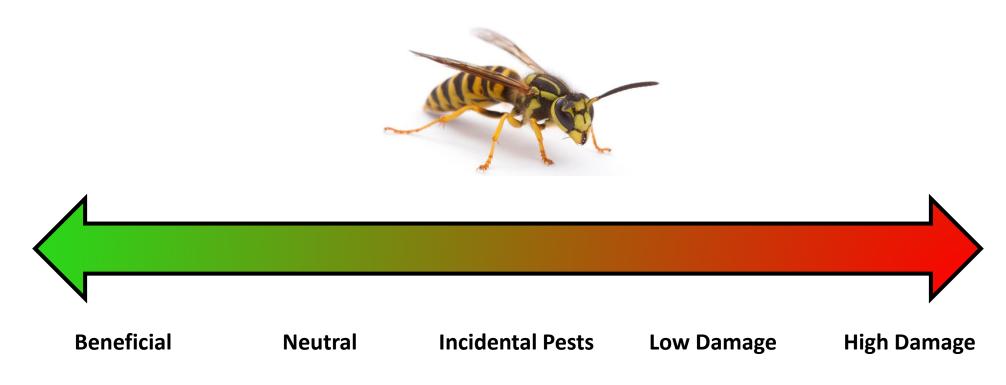


Factors:

Context, Perception, Personal Allowance, Understanding, Population Size, Health of Plants, Indoor vs. Outdoor etc.



A Yellowjacket: Nest hanging away from a home.

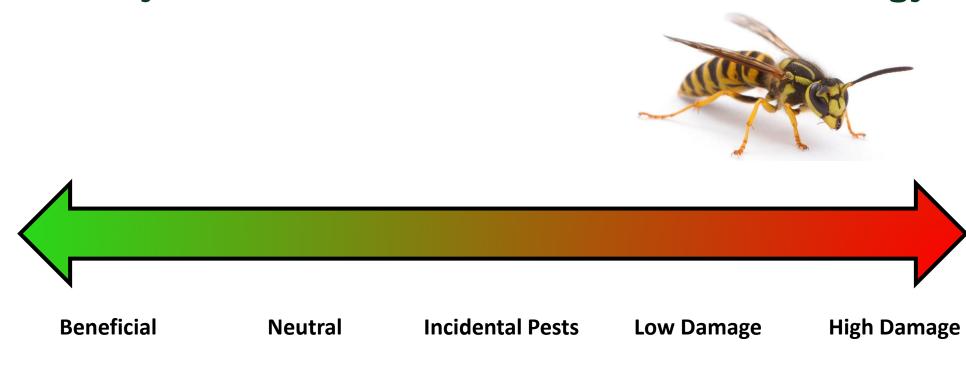


Factors:

Context, Perception, Personal Allowance, Understanding, Population Size, Health of Plants, Indoor vs. Outdoor etc.



A Yellowjacket: Nest hanging away from a home. Family member who loves the outdoors has an allergy.



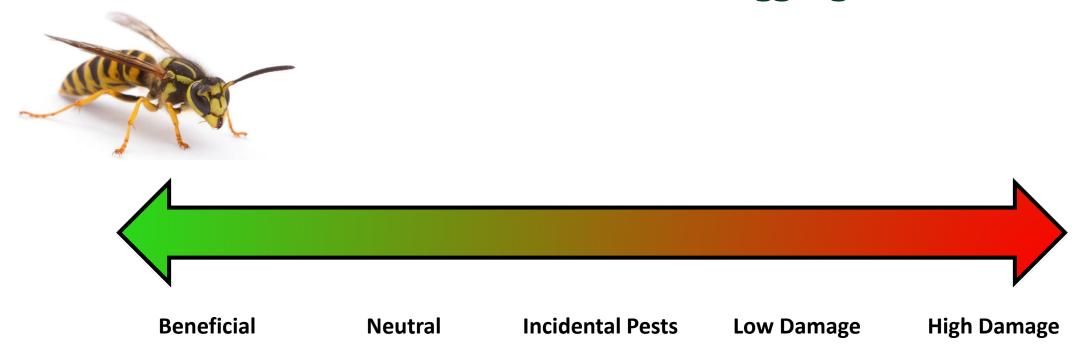
Factors:

Context, Perception, Personal Allowance, Understanding, Population Size, Health of Plants, Indoor vs. Outdoor etc.

A Yellowjacket...



A Yellowjacket: Nest hanging away from a home. Homeowner has a flower and veggie garden.



Factors:

Context, Perception, Personal Allowance, Understanding, Population Size, Health of Plants, Indoor vs. Outdoor etc.

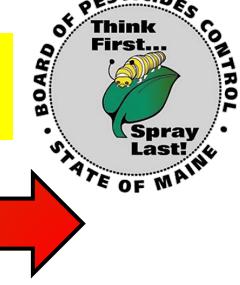
A Yellowjacket...



A Yellowjacket: Nest hanging away from a home. Homeowner has a flower and veggie garden.



This thought process is an important step in integrated pest management and one that should be taken with every choice to treat pests, especially when using pesticides.



Beneficial

Neutral

Incidental Pests

Low Damage

High Damage

Factors:

Context, Perception, Personal Allowance, Understanding, Population Size, Health of Plants, Indoor vs. Outdoor etc.

What is integrated pest management?





- Proper identification of pest
- Understanding the system where the pest exists



- Prevent and control through physical means
- Set your location up for success

Monitoring & Recordkeeping

- Monitor in a tracked and systematic way
- Make it useful for the future!

Action Thresholds

- What is the population level?
- What methods are needed at this level?



Dynamic and flexible as methods change

IPM is the standard and many institutions are involved







What is integrated pest management?



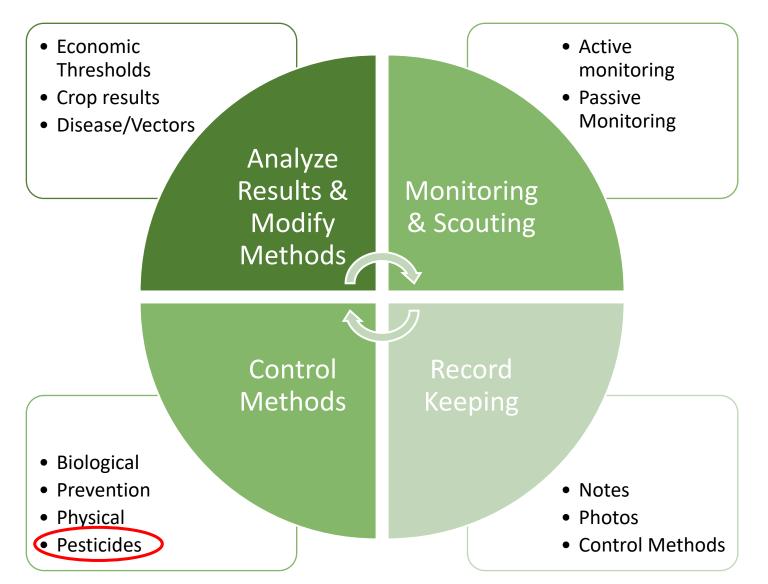
IPM Concept Highlights

Mindset Framework!



The IPM Cycle



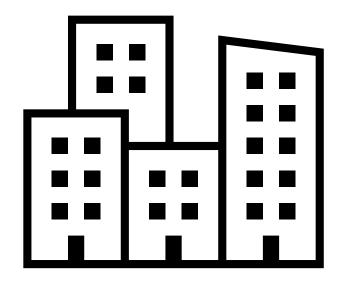






Each situation has unique challenges and oftentimes unique associated laws.

- Schools
- Restaurants
- Homes
- Municipalities & Ordinances
- Apartments and Shared Living Situations
- Hospitals
- Farm structures







1 DEPARTMENT OF AGRICULTURE, CONSERVATION AND FORESTRY

26 BOARD OF PESTICIDES CONTROL

Thapter 27: STANDARDS FOR PESTICIDE APPLICATIONS AND PUBLIC NOTIFICATION IN SCHOOLS

UMMARY: This rule establishes procedures and standards for applying pesticides in school buildings nd on school grounds. This rule also sets forth the requirements for notifying school staff, students, isitors, parents and guardians about pending pesticide applications.

ection 1. Definitions

- A. Integrated Pest Management. For the purposes of this rule, 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,
 - establishing dynamic economic or aesthetic injury thresholds and determining whether the organism or organism complex warrants control,
 - 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.
- B. School. For the purposes of this rule, School means any public, private or tribally funded:
 - (1) elementary school,
 - secondary school,
 - · · · · · ·

Chapter 27: STANDARDS FOR PESTICIDE APPLICATIONS AND PUBLIC NOTIFICATION IN SCHOOLS (link)

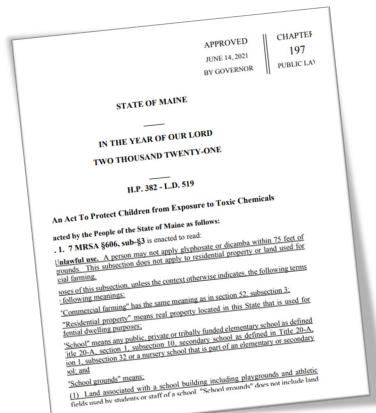
standards for applying pesticides in school buildings and on school grounds. This rule also sets forth the requirements for notifying school staff, students, visitors, parents and guardians about pending pesticide applications.





- Beginning October 18, 2021, use of herbicides containing either glyphosate or dicamba are prohibited on school grounds. Use of glyphosate or dicamba will also be prohibited on property within 75 feet of school grounds.
- Two types of property are exempt from these prohibitions—farms and private residential property.





Link to LD 519: An Act To Protect Children from Exposure to Toxic Chemicals





Pest exclusion and monitoring





Monitoring, control, communication



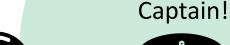
IPM COORDINATOR:

Custodians:

Sanitation, monitoring pests, reporting



Contracts, budgeting

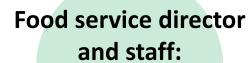






Students, Nurse, and Teachers:

Education, sanitation, monitoring



Pest prevention and monitoring





Communication, records, scheduling













Pest friendly conditions:



Dirty floors around and behind equipment and furniture

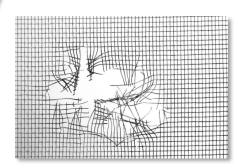


Condensation, leaking pipes, poor drainage and standing water

Gaps under exterior doors

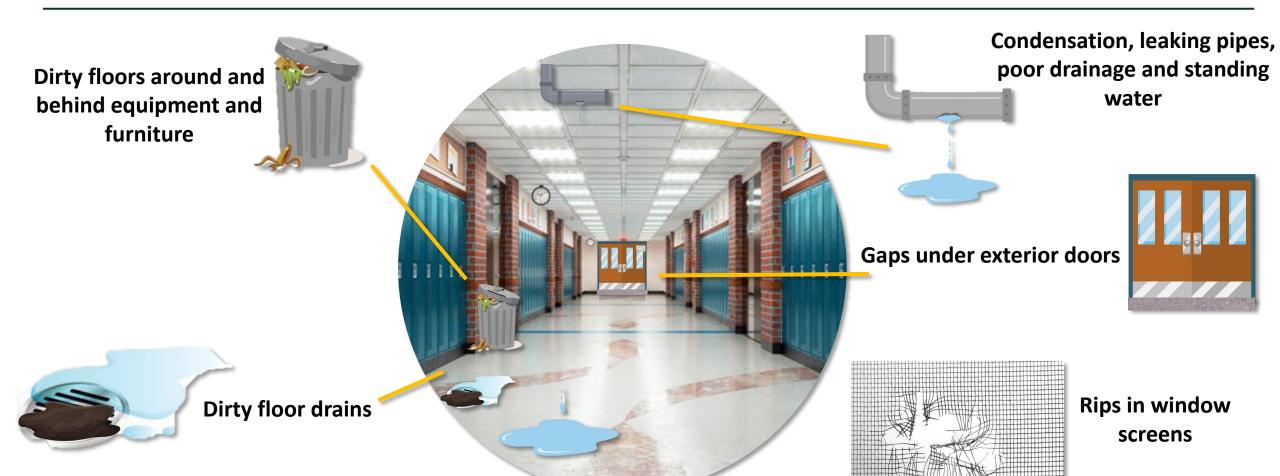


Dirty floor drains



Rips in window screens

Pest friendly conditions: go beyond schools!



Rodent Problems: Poultry Facilities and Barns



Can attract foxes, raccoons, and other chicken predators



Ideal rodent habitat – harborage, food, water

Consumes AND contaminates feed

Prefers feed to baits

Gnaw on structural, mechanical, and electrical utilities

Weakens concrete slabs and walkways

Rodent Problems: Poultry Facilities and Barns



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Prefers feed to baits

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An IPM Deep Dive: Mice and Rats

Need tools beyond rodenticides

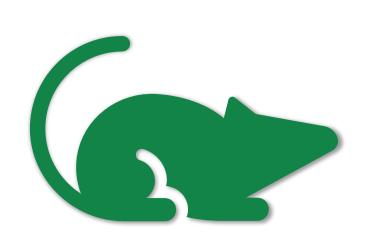




This does not constitute an endorsement or a recommendation by the State of Maine or the Board of Pesticides Control to use this product in the production of hemp. Any products without an EPA registration number have not been reviewed or registered by the EPA. The label must be strictly followed.

Identification: Sources of Evidence in Homes









Features of the organism

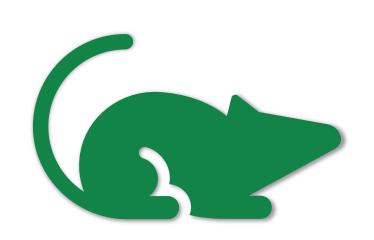
Droppings,
Tunnels, Gnawings
and Trails

Damage to Walls, Wiring, Furniture



Identification: Sources of Evidence at Farms









Features of the organism

Droppings,
Tunnels, Gnawings
and Trails

Damage, Sick Animals, Lost Yield



Identification: Sources of Evidence at Schools





Features of the organism

Droppings, Tunnels, Gnawings Foodborne Illness, and Trails

Damage, Asthma Absences



Identification: Rats and Mice in Maine

Relatively Small Eyes

Relatively Small Ears

Body: Thick & Heavy



Norway Rat / Brown Rat (Rattus novegicus)

Norway Rat

Size: 30-45 cm (12-18 inches) from nose to end of tail.

DROPPINGS:

Long, Rounded Ends Avg. Length: 15-20 mm (3/4 inch)



Tail Shorter Than Head & Body

Types of Damage:

Blunt

Nose

Large

Feet

• Large gnaw marks (1/8th in.)

Location:

 Tunnels in soil disguised, 3inch diameter

Mice (Mus spp.)

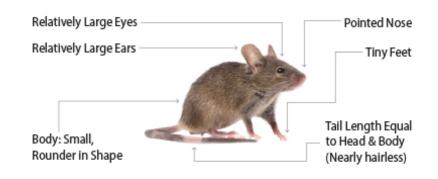
House Mouse

Size: 15-17 cm (6-7 inches) from nose to end of tail.

DROPPINGS:

Small with Pointed Ends Avg. Length: 4-7 mm (1/4 inch)





Types of Damage:

- Small gnaw marks
- Insulation, wiring, baseboards

Location:

Squeeze easily behind walls



Identification:

AGRICULTURE maine **CONSERVAT**





Types of Damage:

Small gnaw marks

Location:

Buildings, homes, barns





Large black eyes

Large ears

White underside

Types of Damage:

Carries hantavirus

Location:

Ground-floor walls of homes, barns

White-footed Mouse (Peromyscus leucopus)



Types of Damage:

Carries hantavirus

Location:

Ground-floor walls of homes, barns

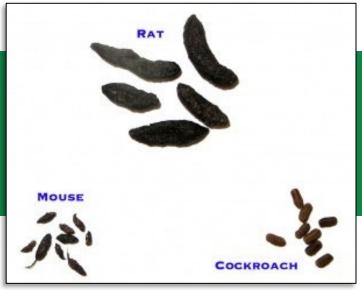


Photos: House Mouse; Deer Mouse ID Sources: UC IPM; CDC Pictorial Key

Identification: Poop - you might be surprised!



It is possible to confuse mouse and cockroach droppings!



Cockroach droppings have ridges.

PM Concepts



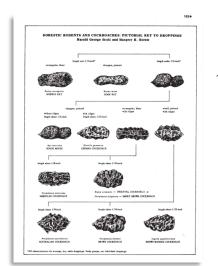
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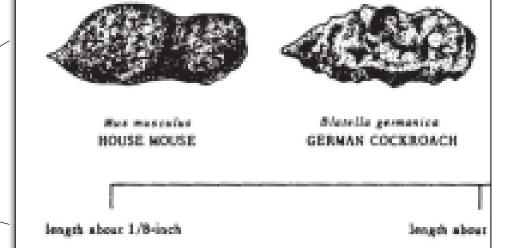
Record Keeping

Action Threshold

Biological &

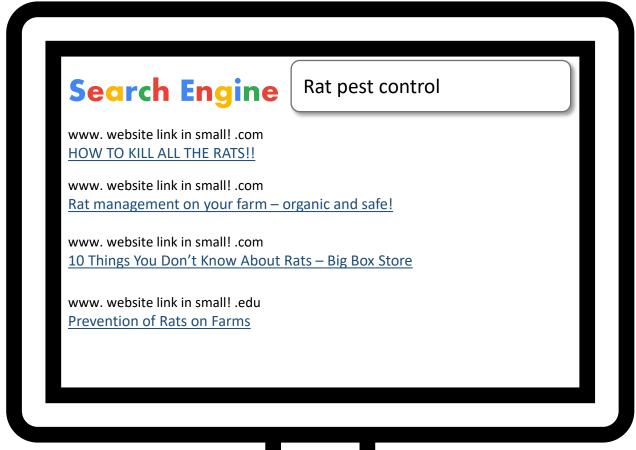
There's a key for that!





INTERNET SEARCHES – a tool you need to know how to use



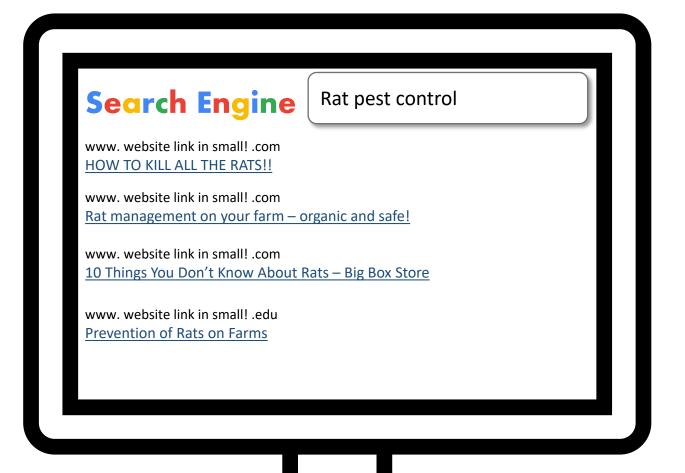


- The first few links are likely to be ads
- Careful trusting information written by those will profit from it
- Just because a website claims to be "natural" or "earth friendly", information needs to be backed by research (references and citations)



INTERNET SEARCHES – a tool you need to know how to use



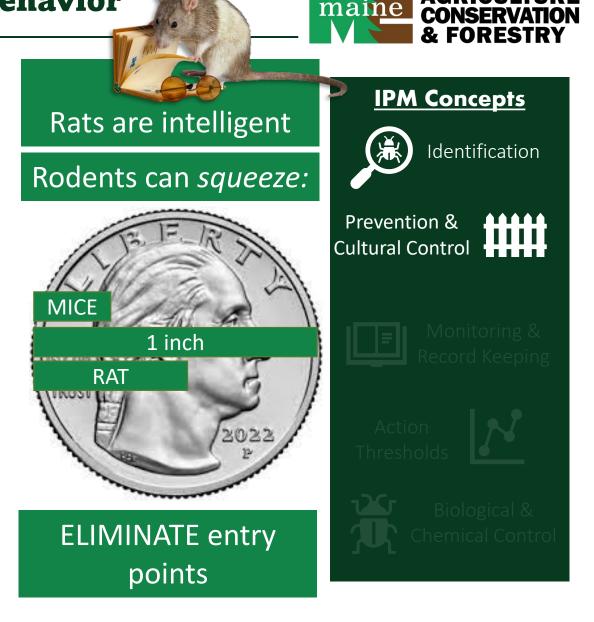


- Generally, better resources can be found under .edu and .gov
- Writing the question in a different way can help (instead of "kill rats", search for "rat prevention" or "rodent IPM")



Prevention & Cultural Control: Rodent Behavior

- Most rodents have a "home range" 80% time spent in one location
- Rats are powerhouses
 - Intelligent and wary
 - Can tread water for three days straight
 - Can jump vertically 3 feet and survive a 50-foot drop
- Rodents will go through if they cannot go around
 - Can gnaw lead sheathing, cinder-block, aluminum siding, glass

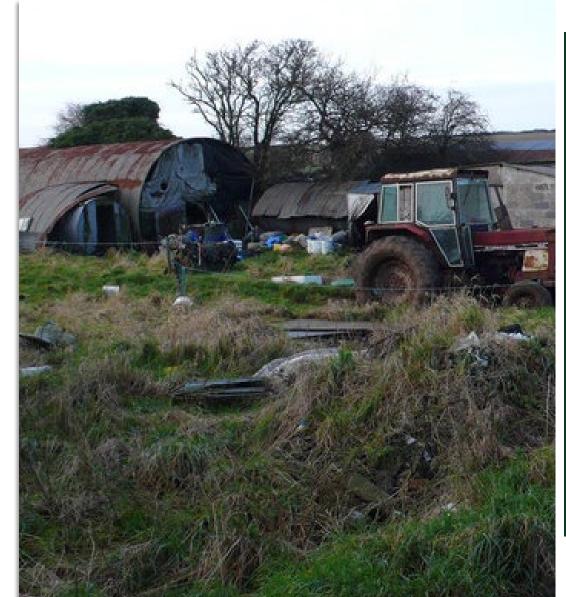


Prevention & Cultural Control: Sanitation



Outside of Homes and Structures Remove:

- Nesting materials clutter inside and outside
- Water sources open garbage, spilled bird seed, leaky faucets, bird baths
- Food sources sealed jars, tins, heavy plastic
- Travel pathways trim trees and vegetation 3ft from walls/roofs





Prevention & Cultural Control: Rodent-Proofing



Human Dwellings (Where We Predominately Spend Time)





- Seal gaps of 1/4-inch or more
 - Siliconized acrylic latex
 - Polyurethane sealant products
 - Need to stretch as gaps and cracks in buildings expand and contract due to temperature changes and other factors
- Use door sweeps to fill light "leaks"
- Outside: eliminate hiding places and food sources







Prevention & Cultural Control: Rodent-Proofing

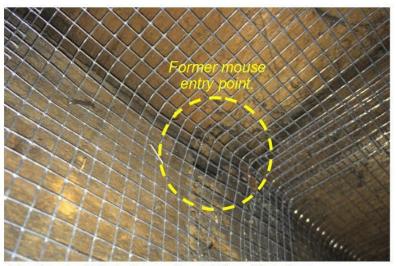


Animal Dwellings (Farm Buildings, etc.)





- In a barn, ALL openings must be closed tightly
- Check pipes, exhaust fans, and drains
- Materials for rodent-proofing: Concrete, Galvanized Sheet Metal, Brick, Hardware Cloth
- Outside: eliminate hiding places and food sources



Hardware cloth between the joist and the floor.



Finished installation, underfloor without finish surface.



Photos: Chris Callahan, UVM Extension

Source: OSU Extension; Photos:

Prevention & Cultural Control: Trap-Types



Snap & Alligator	
Cro.	The state of the s

Multiple-Capture



Glue Boards



Pros:

Simple, inexpensive, effective

Pros:

Catch several rodents, do not require bait

Pros:

No snapping mechanism, inexpensive

Cons:

Ineffective alone in a large infestation; gruesome

Cons:

More expensive, live rodents to dispose of, monitor frequently

Cons:

Inhumane, off target capture, lose effectiveness if dirty

Styles:

- Wooden snap trap
- Plastic snap trap
- Plastic enclosed snap trap
- Plastic alligator trap

Styles:

- Curiosity traps
- Winding or trap door
- Electronic instant kill

Styles

- Different sizes
- Baited or unbaited
- Covered or open

Prevention & Cultural Control: Tips for Effective Trapping



Set traps:

- Close to walls
- Behind objects
- Dark corners
- Warm spots (near motor, etc.)

Bait traps with:

- Nesting materials (secured with floss)
- The food they are eating
- DO NOT over bait!



Excellent video by Dr. Matt Frye



Prevention & Cultural Control: Tips for Effective Trapping



For rats:

- Leave traps baited ("pre-bait") but unset until bait taken at least once
- Space 10-15 feet apart
- SMART rats may need traps hidden (cover with sawdust, pet rodent bedding, etc.)

For mice:

Space snap traps 6-8ft apart

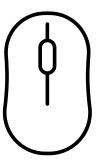


Prevention & Cultural Control: Cleaning Up





Further details here!



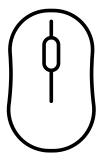
Prevention & Cultural Control: Cleaning Up







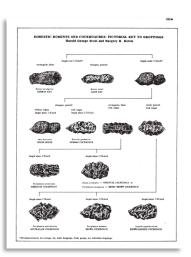
Further details here!



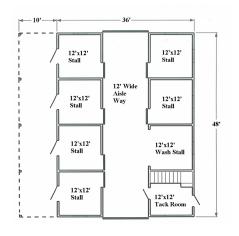
Scouting and Monitoring Tools



Logbook or System



Identification Guides for Rodents & Evidence



Map / Sketched Floor Plan

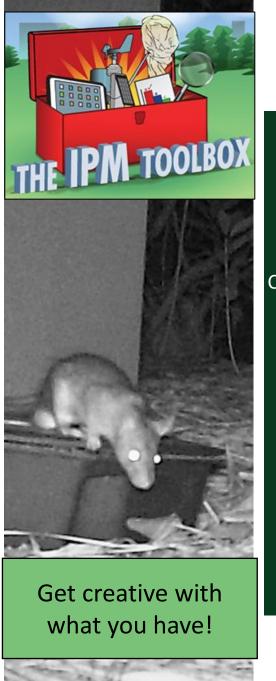


Traps & Attractive Bait (Food, Nesting Materials)



Flashlight

Smartphone, Camera, Trail Cam!!!







Photos: CDC ID Guide.

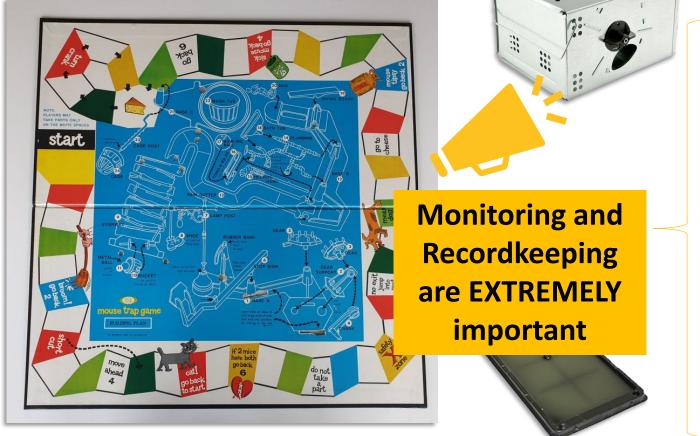


Passive Monitoring: Mouse Trap Map

Systematic Sampling = Useful Results











Active/Visual/Scouting Monitoring Systematic Sampling = Useful Results

- Inspect for:
 - Droppings
 - Tracks
 - Burrows
 - Pathways
 - Fresh gnawing's
 - Dead rodents
- Indoors active just after dusk and shortly before dawn. Daytime sightings mean an established infestation
- Look along walls and stationary objects as rodents prefer to move along them











Set up weekly and repeatable systems: Creating your logbook is a great place to start!

Date	Time	Initials	Location	Observation Type	Description	Many options

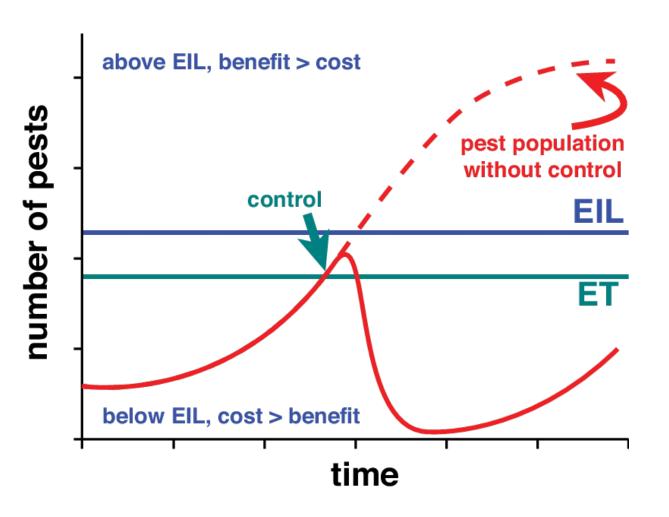
- Visual scouting a big box to write in evidence or many columns with pest species
- Passive monitoring traps with unique identifiers, and columns with rodent species
- Control methods keep track of maintenance, rodenticide use, dead mice collected





Action Thresholds





Economic Injury Level

Crop loss is more expensive than controlling the pest

Economic Threshold

Pest abundance or damage level that will exceed EIL if not treated



Action Thresholds: Rodent Example





- In a barn, a **minor** problem can be:
 - Possibly solved with traps
 - If bait is needed, only placed into rodent burrows
- A **major** problem could mean:
 - More baits placed strategically through a facility



Biological & Chemical Control: Rodenticide 101



First-Generation Anticoagulants	Second-Generation Anticoagulants	Non-anticoagulants	
Pros: No bait shyness	Pros: Kills in single feeding; no bait shyness Pros: Some kill in single dose, effective for resistant rodes		
Cons: Kills in multiple feedings, resistance has developed	Cons: Greater risk of killing prey	Cons: Still a risk of killing prey	
Mode of Action: Stops blood clotting	Mode of Action: Stops blood clotting	Mode of Action: Various	
Used For: Controlling serious outbreak	Used For: Controlling serious outbreak	Used For: Resistant rodents	

Biological & Chemical Control: Rodenticide Formulations



Pellets Kaput Common Pellets

Wax Blocks



Feed



Packets

Pros:

Less expensive

Pros:

Can get damp, convenient

Pros:

May outcompete other food sources

Pros:

Convenient

Cons:

Loose pellets easy for children and pets to find

Cons:

Wax may be less palatable

Cons:

Spoil quickly

Cons:

More expensive

Used For:

- Many bait placements
- Container baiting methods

Used For:

- Direct baiting of burrows and walls
- Damp locations

Used For:

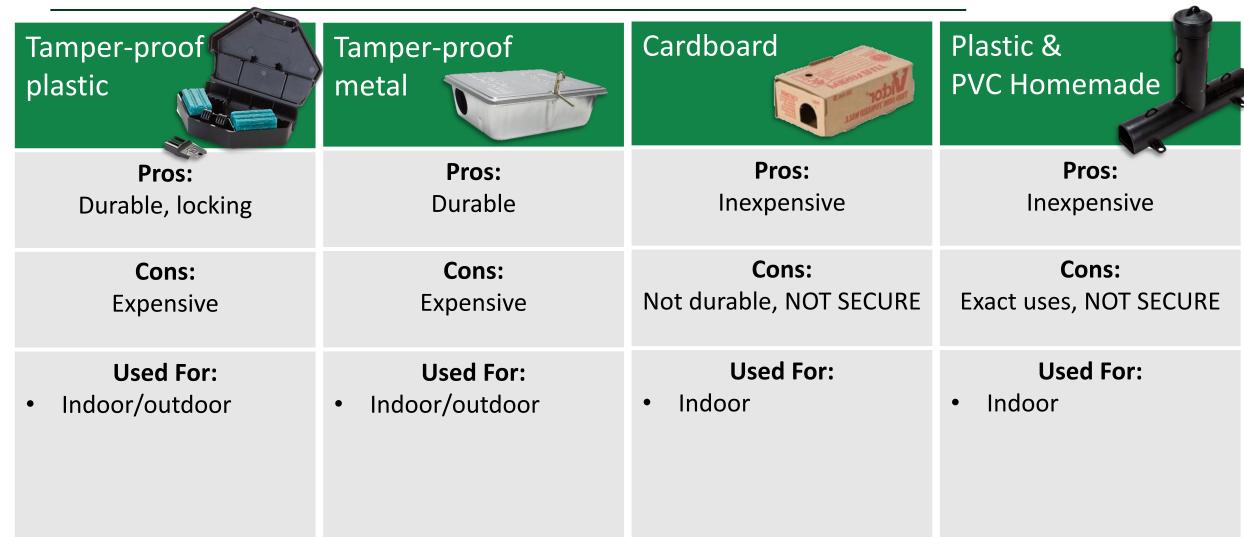
 Places with highlypalatable competing food sources

Used For:

 Direct baiting of burrows and walls

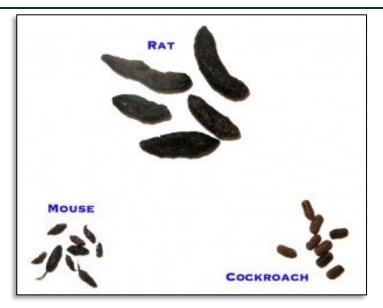
Biological & Chemical Control: Bait Containers





Identification: Poop – look in the bait station

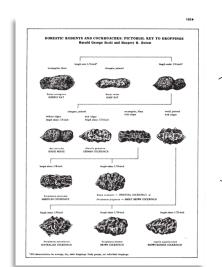


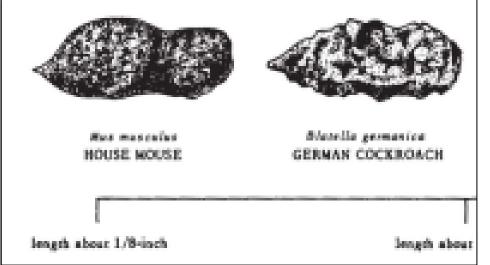












Rodenticide Acute Toxicity



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	Oral	Inhalation	Dermal	Primary Eye Irritation	Primary Skin Irritation		
Warfarin ^{3,6}	Moderate - High toxicity	Not significant	Not significant	No data	No data		
Chlorphacinone ⁴	High toxicity	High toxicity	High toxicity	Non-irritating	Non-irritating		
Diphacinone ⁴	High toxicity	High toxicity	High toxicity	Moderate irritation	Slight irritation		
Bromadiolone ⁴	High toxicity	High toxicity	High toxicity	Low irritation	Minimally irritating		
Difethialone ³	High toxicity	High toxicity	High toxicity	Mild irritant	Non-irritating		
Brodifacoum ⁴	High toxicity	High toxicity	High toxicity	Minor irritation	Mild irritant		
Bromethalin ⁴	High toxicity	High toxicity	Moderate toxicity	Slight irritation	Non-irritating		
Cholecalciferol ³	High toxicity	Very low toxicity	Low toxicity	No data	No data		
Zinc phosphide ⁵	High toxicity	High toxicity	Low toxicity	Slight irritation	Non-irritating		
Strychnine ⁷	High toxicity	High toxicity	Low toxicity	Highly irritating	Non-irritating		

Classification categories were modeled after the U.S. Environmental Protection Agency, Office of Pesticide Programs, Label Review Manual, Chapter 7: Precautionary Labeling. http://www.epa.gov/oppfead1/labeling/lrm/chap-07.pdf

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Table: NPIC Rodenticde Factsheet

Rodenticide Acute Toxicity



Table 2. Summary of common rodenticides						
Rodenticide Type		Chemical class	Days of feeding needed			
Warfarin	Anticoagulant	Hydroxycoumarin	multiple			
Chlorphacinone	Anticoagulant	Indandione	multiple			
Diphacinone	Anticoagulant	Indandione	multiple			
Bromadiolone	Anticoagulant	Hydroxycoumarin	single			
Difethialone	Anticoagulant	Hydroxycoumarin	single			
Brodifacoum	Anticoagulant	Hydroxycoumarin	single			
Bromethalin	Non-anticoagulant	other	single			
Cholecalciferol	Non-anticoagulant	Vitamin D3	multiple or single			
Zinc phosphide	Non-anticoagulant	other	single			
Strychnine	Non-anticoagulant	other	single			

Single dose anticoagulants are more toxic

Also known as "second generation"

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Table: NPIC Rodenticde Factsheet

Rodents are Mammals



Rodenticides may have the same type of effect when eaten by any mammal





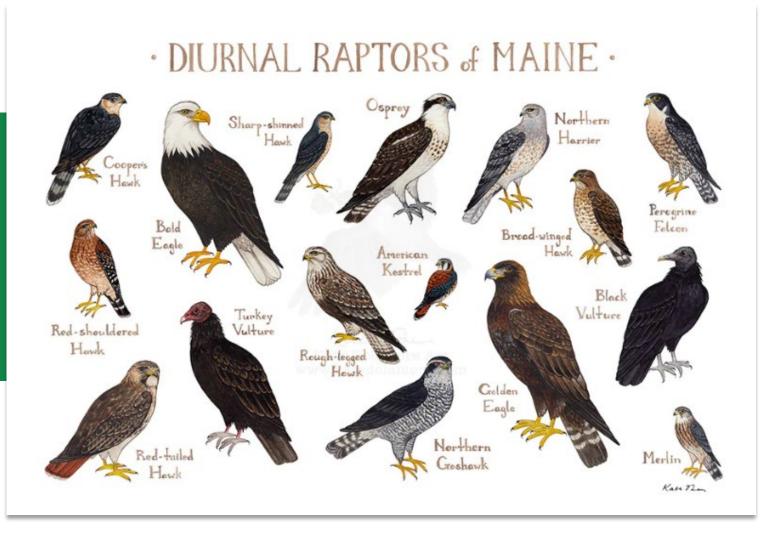




Rodenticides can kill birds



Rodenticides
can also
directly and
indirectly kill
birds





Poster: Kate Dolamore Art. Used with permission.

Rodenticides can kill birds



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Poster: Kate Dolamore Art. Used with permission.

Rodenticides kill wildlife

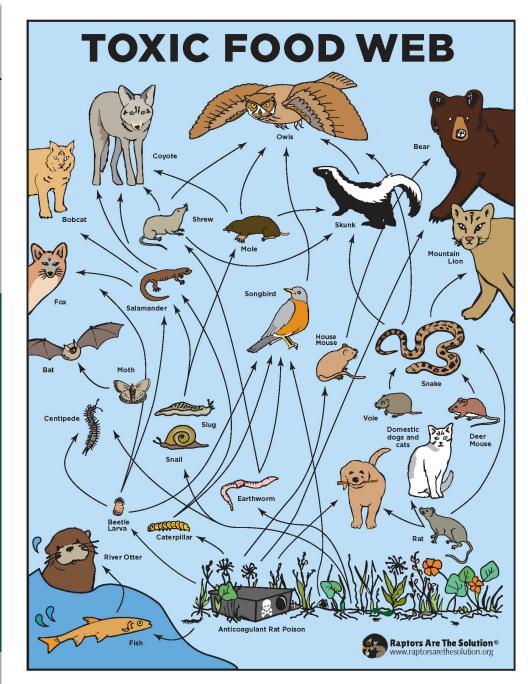
Exposure pathways of anticoagulant rodenticides to nontarget wildlife

John E. Elliott · Sofi Hindmarch · Courtney A. Albert · Jason Emery · Pierre Mineau · France Maisonneuve

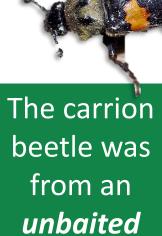
Rodenticides detected in liver samples of Norway rats at **both baited and non-baited farms.**

Also detected in a vole, song sparrow, carrion beetles.

A house sparrow was seen entering bait stations and feeding on bait.







farm.



Carrion Beetle:
University of Wisconsin
Free Poster Download:
Raptors are the Solution

Rodenticide Secondary Poisoning



Table 3. Secondary poisoning risks to birds and mammals ²					
Rodenticide	Secondary risk to birds	Secondary risk to mammals			
Warfarin	slight risk	low risk			
Chlorophacinone	slight risk	high risk			
Diphacinone	moderate risk	high risk			
Bromadiolone	moderate risk	high risk			
Difethialone	high risk	high risk			
Brodifacoum	high risk	high risk			
Bromethalin	possible (insufficient data)	low risk			
Cholecalciferol	low risk	low risk			
Zinc phosphide	low risk	slight risk			
Strychnine ^{17,24}	possible (insufficient data)	possible (insufficient data)			

Secondary
poisoning or
relay toxicosis
is caused by
eating
poisoned prey

This does not constitute an endorsement or a recommendation by the State of Maine or the Board of Pesticides Control to use this product. Any products without an EPA registration number have not been reviewed or registered by the EPA. The label must be strictly followed.

Table: NPIC Rodenticde Factsheet

Rodenticides kill wildlife



Death of pregnant mountain lion underscores two human-caused

danger

Poisons killed beloved owls in Tampa Ray Can their defenders save others?

Rodenticide poisoning widespread among NY's red-tailed

Barry The Owl Was Poisoned Before Central Park

Rat poison mystery: Pumas and coyotes are dying

Grad student is studying how wild carnivores are being killed by rodenticides













Rodenticide: Ways to Ensure Efficacy

- In facilities such as poultry operations, and in structures like pantries and restaurants, large amounts of other food opportunities will make baits less attractive
- Contaminated baits (dirt, manure, insects) are unattractive to rodents
- Follow the label





STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. **Pesticide Storage:** Store only in original container in a cool, dry place inaccessible to children and pets. Keep containers closed and away from other chemicals.

Pesticide Disposal: Dispose of wastes resulting from the use of this product at an approved waste disposal facility or call your local solid waste agency for alternative disposal instructions. Never place unused product down any indoor or outdoor drain.

Container Handling: Nonrefillable container. Do not reuse or refill this container. When completely empty, offer for recycling if available, or dispose of empty container in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Rodenticide: Ways to Ensure Efficacy

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APPLICATION DIRECTIONS

Norway and Roof Rats:

Apply 4 - 16 oz. of bait (usually at intervals of 15-30 ft.) per placement. Maintain an uninterrupted supply of fresh bait for 10 days or until signs of rat activity cease.

House Mice:

Apply ¼ - ½ oz. of bait per placement. Space placements at intervals of 8-12 ft. Larger placements (up to 2 oz.) may be needed at points of very high mouse activity. Maintain an uninterrupted supply of fresh bait for 15 days or until signs of mouse activity cease.

Reducing rodenticide risk to children, pets, livestock, & wildlife



Prevent exposures...

- Do not store within reach of children or pets
- Tamper resistant bait stations
- Follow the label instructions
- Dogs will dig up buried bait
- Search for, collect, and dispose of poisoned rodents
- Milk crates over traps reduce offtarget kills and little fingers!



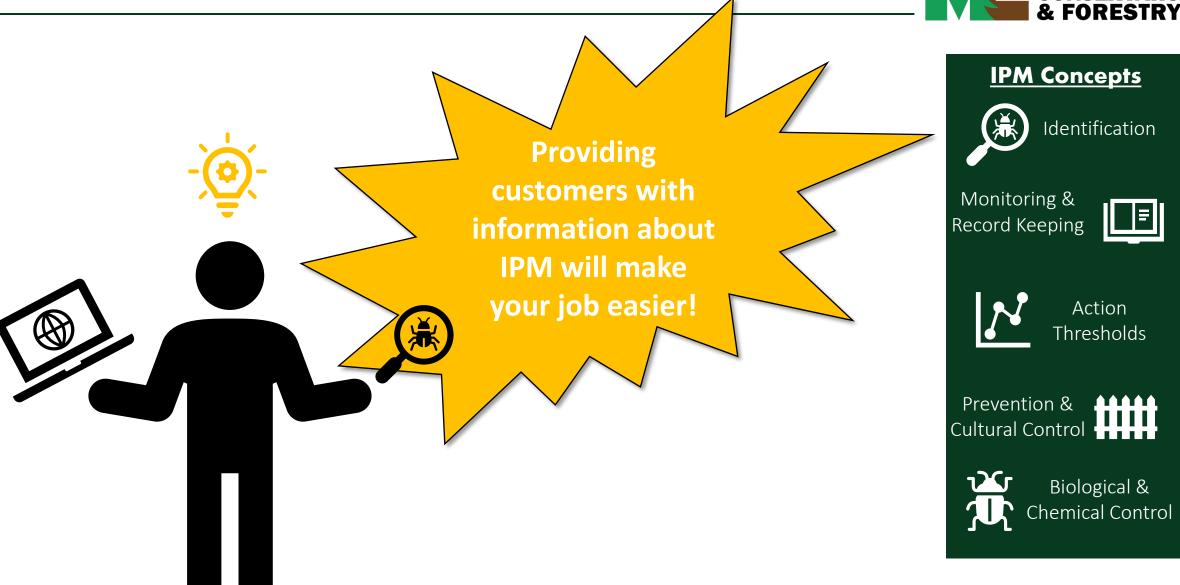






Demonstrate you use IPM!





Demonstrate you use IPM!





Demonstrate you use IPM!



- Discusses the importance of record keeping
- Surveys customers for problematic areas

- Defines tactics customers should take prior to treatment for highest efficacy
- Offers landscaping services
- Offers property walkthrough with customers
- **Defines IPM & Adopts IPM Policy**
- Makes realistic promises

IPM Concepts



Identification

Monitoring & Record Keeping





Action Thresholds

Prevention & Cultural Control





Biological & Chemical Control

- Provides educational information about species presence in Maine
- Describes process company takes to ensure pest identification
- Describes initial inspection
- Describes process for ensuring populations have decreased
- Describes improvements annually

- Mentions applicators license
- Describes to customers that they will receive a copy of the product label used
- Defines safety precautions that will be taken