

Scenarios for School IPM Workshop Exercise

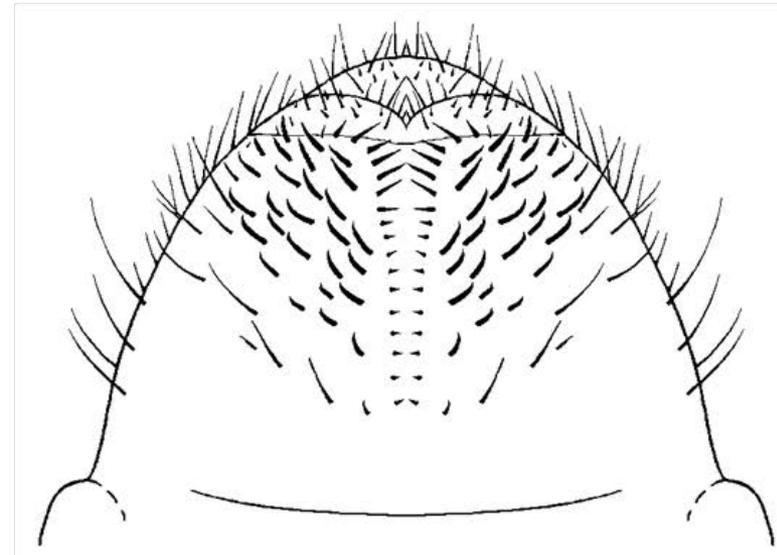
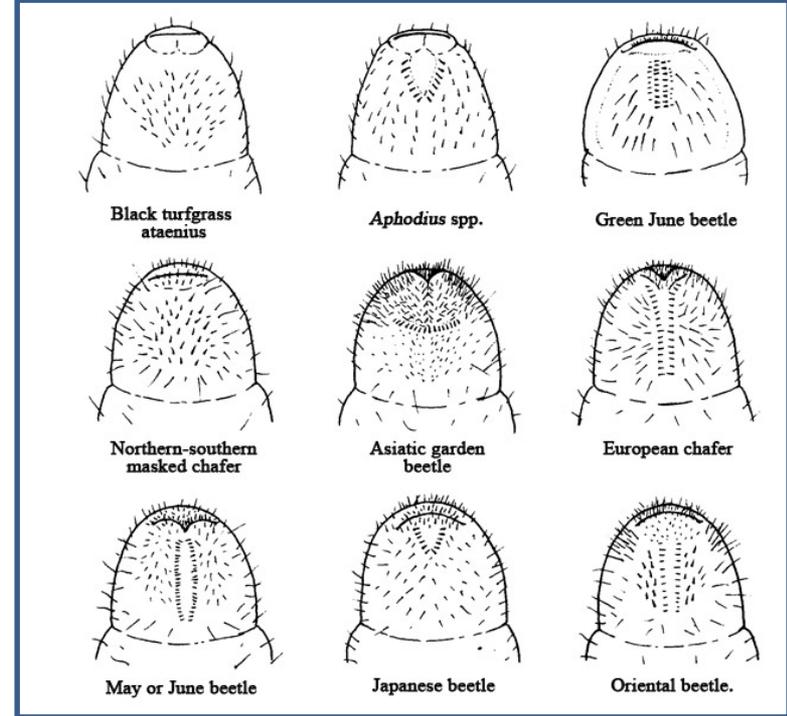
September 15th –
Extensive turfgrass
damage to lawns and
brown patches on
sports field.



- What would you do to diagnose the problem?
- Describe and record the steps you will take to diagnose and, if needed, to manage the problem.
- Record pest identification, monitoring results, and any actions taken including dates of notices and signs posted if required.



Upon examination of grubs' tail-end and comparison with identification chart,



You've selected a turf care contractor to confirm your diagnosis and make a recommendation.

Contractor says it is caused by European chafer and advises you contract for **one** of these actions:

- 1) Repair the damage by raking, seeding and watering and do nothing else for now.
- 2) Apply Dylox now to kill the grubs then repair the damage by raking, seeding and watering.
- 3) Repair the damage now and schedule an application of Acelepryn for early June next year.
- 4) Repair the damage now and schedule an application of Merit next July.

After reviewing the attached product labels and guidance, make a decision and record all the required information in your Pest Management Logbook.

Test Results:

- Lab test showed no signs of turfgrass pathogens
- Soil test showed pH, nutrients and organic matter composition are at optimal levels.

Scenario #2

Insects in Kitchen

Situation: Kitchen staff reported seeing scurrying bugs in the kitchen.

They captured one and sent it to you in a baggie. You put it under a microscope in the science lab (See inset photo).

What do you do to identify, record, and solve the issue?



You inspected the kitchen. Sanitation and maintenance appears to be needed.



Dirty floors and equipment legs.
Broken tile.

Very grimy floor drain
and cover.



Splattered food in microwave.





Sticky traps placed in kitchen caught more of what looks like the same bug.



Custodian went to store and purchased some spray and powder to use. See attached labels. Can you use either of these products?

If you decide to use one of these, fill out the Pest Management Activity Logbook accordingly.



1) You contact a pest management contractor to confirm the identity of this insect and suggest a course of action.

- Contractor confirms that there is a reproducing population of German cockroaches in the kitchen and recommends that you contract for their services to apply MaxForce Cockroach gel bait. They will also place additional sticky monitoring traps at several places under equipment, and inside cupboards which they will monitor, record captures and replace monthly.
- Contractor recommends school staff repair broken floor tiles and thoroughly clean floors, drains and equipment.

2) A staff member suggests you apply Roach-Prufe yourself to save money. After all, the label says it can be used in schools!

3) Review the attached labels, make decisions, and properly record all the necessary information in your Pest Management Logbook.

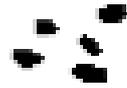
Scenario #3

Droppings in Teachers Lounge



Situation: Staff moved a couch in the teachers lounge and found this on the floor. These brown particles are a little less than $\frac{1}{4}$ " long.

- What caused this mess?
- What, if anything, should you do to diagnose and address the problem?



AMERICAN COCKROACH



ROOF RAT



DEER MOUSE,
WHITE-FOOTED MOUSE

1 inch



NORWAY RAT



Further inspection of the teachers lounge showed food and crumbs under couch cushions, splatters in microwave, bags of returnable bottles, and food not stored in pest-proof containers.



There is a large gap under exterior door nearest the teachers' lounge.



1) You contacted a pest management contractor. Contractor made the following recommendations:

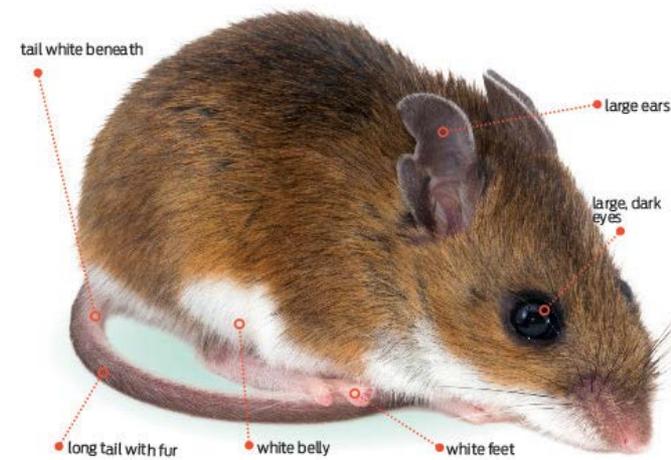
- Hire contractor to install an unbaited mechanical mouse trap (see product description attached) in a corner of the room. Once a month the contractor will check and empty the traps, and will leave you a record of the number of animals caught each month.
- Optionally, for an additional fee, contractor can install 3 tamper-proof bait stations outdoors against the exterior walls of the building. Specifications attached. These can be baited with a rodenticide (FastTrac Blox) or a non-toxic bait (Detex Blox) to aid in pinpointing mouse entryways. These will be serviced monthly.
- Recommends your staff secure all food in pest-proof containers and clean floors and furniture thoroughly to eliminate any crumbs, wrappers, soda cans, and other food residues.

2) After reviewing the School Action Plan for Rodents and the FastTrac and Detex product labels:

- decide which if any of your contractor's offered services you will use and
- Decide any additional actions school staff will take

3) Record pest identification, monitoring results, and any actions taken including dates of notices and signs posted if required.

Custodian set a snap trap baited with cheese whiz in this room and caught this animal.



White-footed Deer Mouse





FEATURES OF KETCH-ALL MULTIPLE CATCH MOUSETRAP

- * Automatically resets. Capable of catching multiple mice in one setting
- * User friendly mouse trap. Wind up and the mousetrap is ready.
- * Child and Pet safe mousetrap.
- * Reusable Mouse Trap. Quality, durable galvanized steel housing for years of mouse trapping.
- * Sanitary mouse disposal. Captured mice are disposed of without contact.
- * Reliable mouse catcher. Tested and proven since 1924.
- Made in the USA
- Well known for catching several mice at one setting it has been called The Worlds Best Mouse Trap. Proven to catch as many as fifteen pesky rodents into its clutches at a time-without dangerous chemicals. That means it's not only efficient, but safe to use around children
- Available on-line for \$16 ea.

You found this product at the local hardware store. Can you use it? See attached label. If you choose to use this product, fill out the Pest Management Activity Logbook accordingly.



Protecta LP Rat Bait Station - Low Profile and Tamper Resistant

Protecta LP Bait Stations are tamper resistant, low profile bait stations that can be used for either rat or mice control. The stations automatically close with a key, making them safe to be around children, pets, and non-targeted animals. **Tier 1 Bait Station** Protecta LP is a [Tier 1 bait station](#), that meets the highest level of tamper-resistance, recognized by the EPA.

Usages This tamper-resistant rat bait station is designed for inside or outside buildings. These compact bait stations can be used in residential or commercial areas in both urban or rural areas. They are used around perimeter of homes as exterior protection, industrial areas, manufacturing operations, and warehousing. Use one station every 30-40 feet along the walls or path ways, depending on infestation. Protecta LP Bait Station has interior baffles and rods that secure blox baits.



Scenario #4

Aerial Yellowjacket Nest on Playground

Situation: On Sept 5th, the first day of school, teachers reported a large wasp nest on the playground. Several children were stung.

You made a visit, and noted that there is an open trash can in the school yard. After flagging off the area and advising the school principal to cancel playground use until the problem is resolved, what action, if any, will you take to manage this issue?

- Describe and record the steps you will take to diagnose and, if needed, to manage the problem.
- Record pest identification, monitoring, and any actions taken including dates of notices and signs posted if required.
- Record any actions you will take to prevent a future occurrence



Action Option 1

You had already reviewed the information found on pesticide labels, on the SDS, NPIC (National Pesticide Information Center), Cooperative Extension and other reliable resources, and purchased a few cans of Spectracide Wasp and Hornet Killer (label attached) which you keep in a locked cabinet at the school.

You decide that as soon as allowed, you will make a dawn or dusk application of this product directly into the opening of the nest. After the treatment was applied, you went back to confirm no more wasp activity, remove the nest and take down the flagging.

Record actions, including any prior notice and/or signage if required, in your Pest Management Logbook.

Action Option 2

You called a licensed pest control contractor to address the issue. The contractor identified the wasps as aerial yellowjackets and proposed to spray the nest it with Wasp-X (see attached label) as soon as allowed.

Record all the actions, including any prior notice and/or signage if required, in your Pest Management Logbook.



Scenario #5

Ants in the Classroom

Situation: on March 4, 2017 a teacher in the middle school classroom 113 reported little ants invading his classroom.

- Upon inspection you found ants walking along the window sills and the molding at the base of the wall. You also found some white plastic 'ant bait stations' (see photo below). Further inspection showed ants and empty soda cans in a cupboard. What action, if any, will you take to manage this issue?
- Describe and record the all steps you will take to identify and, if needed, to manage the problem.
- Record pest identification, monitoring, and any actions taken including dates of notices and signs posted if required.
- Record any actions you will take to prevent a future occurrence



Control Option 1:

You decide to take care of the problem in-house only. The teacher suggests that you get some Terro Liquid Ant Baits at the local hardware store (see product label attached) and put them in the classroom. Record actions, including any prior notice and/or signage if required, in your Pest Management Logbook.



Control Option 2:

You decide to contact a pest control company to advise and/or apply a pesticide if an application is warranted. XYZ Company made a service visit and left the attached service report. Record actions, including any prior notice and/or signage if required, in your Pest Management Logbook.

Scenario #6

Ticks

Situation: On May 1st, the school nurse reported that five students came to his office with ticks on them last week. He is concerned and wants you to take some action. He was unclear as to whether they were deer ticks or dog ticks but saved one in a vial (enclosed).

- Using the materials provided, decide what steps you will take to identify the ticks, determine if kids are encountering ticks on school properties, and take appropriate steps to address the situation.
- What action, if any, will you take?
- Record pest identification, monitoring, and any actions taken including dates of notices and signs posted if required.

tick removal

Remove ticks immediately. They usually need to attach for 24 hours to transmit Lyme disease. Consult a physician if you remove an engorged deer tick.

Using a tick spoon:

- Place the wide part of the notch on the skin near the tick (hold skin taut if necessary)
- Applying slight pressure downward on the skin, slide the remover forward so the small part of the notch is framing the tick
- Continuous sliding motion of the remover detaches the tick

Using tweezers:

- Grasp the tick close to the skin with tweezers
- Pull gently until the tick lets go

1-800-821-5821
www.mainepublichealth.gov

tick ID

KNOW THEM. PREVENT THEM.

Deer Tick (Black-Legged Tick)

 nymph
  adult male
  adult female

(actual size)

 nymph (1/32"–1/16")
  adult (1/8")
  engorged adult (up to 1/2")

Dog Tick

 adult male
  adult female

(examples are not actual size, dog tick nymphs are rarely found on humans or their pets)



Paul E. LePage, Governor Mary C. Hynes, Commissioner



1. You made a visit to the school grounds and saw tall grass growing in an unmown area at the edge of the school grounds next to the woods. The walking trail connecting the nearby housing development to the school is getting a bit overgrown. There's a good layer of wood chips under the swing sets. There are two bird feeders outside the windows of the school.
 - What steps will you do using your work order system to reduce the risk of tick encounters on school properties?
 - Are there more ways you and the nurse could work together to encourage families to check for ticks and/or reduce the risk of encountering ticks at home?

2. Although your community is vocally opposed to pesticides you thought it might be a good idea to contact a pest control company for their advice and/or to apply a pesticide to the school properties if needed.

The 'Ticked Off' Pest Control Company sent an estimate for the cost of applying bifenthrin (see label attached) around the entire perimeter of the school grounds. After some discussion between you, the company, the Parent-Teacher Organization, the principal and your county Cooperative Extension agent it was decided to have Ticked Off apply bifenthrin once in May, to a targeted area at the edge of the wooded area bordering school grounds and along the walking trails, and if needed, a second application next Fall.

Record all actions, including any prior authorization, notice and/or signage if required, in your Pest Management Logbook.

