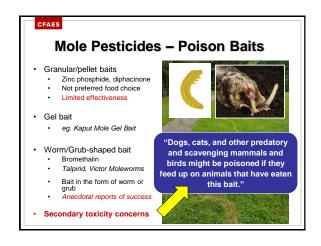
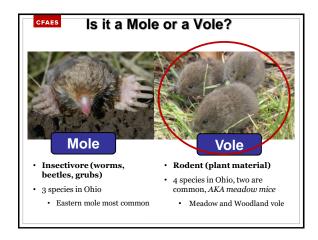
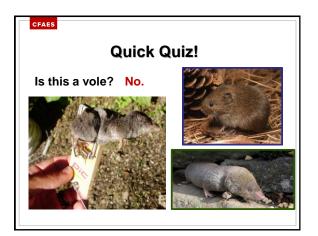


Place in straight, active runs.







### CFAES **Management Options for Voles** · Habitat Modification

- Exclusion Trapping
- Pesticides
  - Repellents
  - Toxic baits

#### CFAES

#### Vole Habitat Modification

- Reduce/eliminate ground cover
  - Landscape grasses
  - Mulch
  - Grass/weeds around trees
  - Grasses cut short into fall Increases predator access
- Remove attractive cover & food sources
  - Straw bales, boards, etc.
  - Bird feeders
  - Fruit drop (especially if using poison baits)



#### **Management Option for Voles**

#### Exclusion

- · Hardware cloth cylinders
- 1/4 1/8 inch mesh 12" tall
- · Use on young trees with grass/weed control

#### Repellents

- Hot pepper, predator urine
  - Short term protection



#### CFAES

#### **Trapping Voles**

- Most effective for smaller areas or in conjunction with toxic baiting
- ID active areas
  - Cut grass blades/vegetation in runs or around holes
- Snap traps expanded trigger (use dozens) or multiple catch
  - Hit population hard = longer recovery time
- Place directly inline with vole runs
  - Cover traps to prevent non-target captures





#### CFAES

#### **Trapping Voles**

- Good bait = peanut butter and oatmeal
  - No bait if covered successfully
- · Past success = future success
  - Odor attracts other voles
- Most effective for smaller areas or in conjunction with toxic baiting







#### CFAES

#### Vole Pesticides - Toxic Baits

No toxic baits are available for use in edible gardens or crops.

- Application best in fall
  - After breeding season
  - Gather food for winter
- Chlorophacinone, Diphachinone, Bromethalin
  - Must be used within 50-100 of building/residence with a bait station
- Other toxic baits are restricted use pesticides (RUPs)
  - **Pesticide Applicators License**







## Vole Pesticides – Toxic Baits

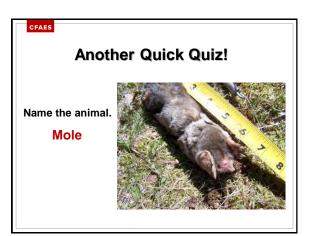
- Restricted Use:
- Zinc phosphide
  - · Second Gen Anticoagulants
- Specific site restrictions
  - Non-residential
  - Bare ground restrictions
  - · Bait stations required
- <u>Tamper-resistant bait stations</u> <u>required</u>
- Special care must be taken to avoid non-target species exposure

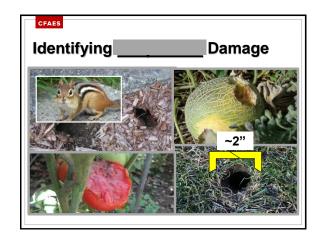




## Things to remember:

- Target control to where moles/voles are active.
  - · Use many traps (esp. with voles).
- Do your homework on mole trap operation to avoid error.
- · Consider modifying attractive vole habitat.
- Read labels on pesticides to make sure site matches and safety protocols are followed.





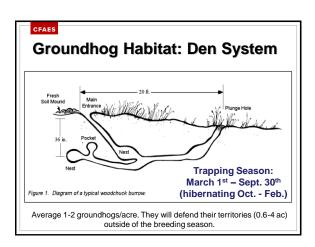






## Remove wood piles, rocks, and other debris near foundations Place bird feeders 15-30' away from home Keep grass cut short around buildings







# • Two-strand (6" & 12") electric fence • Non-electric, 3-4' tall • Heavy gauge 2-inch mesh wire • 18" skirt buried 2+" • Upper 9-12" - 45-degree angle overhang









CFAES

- Identify the species responsible and understand the species habitat needs
- Make cost-effective decisions to bring damage down to a tolerable level
- 3) Coexistence is key must find your own happy place.
- 4) Be persistence, committed, and patient.
- 5) Don't let it get you down. Use your resources.

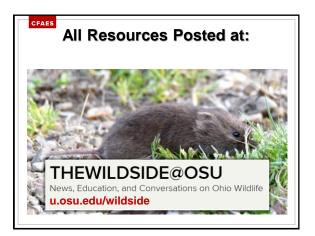




#### Remember to be Safe!

- Wear appropriate safety equipment
  - Glove when handling traps or pesticides
- · Wash hands after handling traps
- Avoid setting traps in areas with high pet and human traffic
- Don't set traps unless you can check them daily.
- · READ THE LABEL.





#### Thank you!

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