Ground Invasion by Voles

Nebraska Extension





6º

Voles: General Background

AKA meadow mice
Rodents: They gnaw
Vegetarian: seeds, roots,

grasses, bark





Three Vole Species Reside in Nebraska prairie vole—statewide & most common meadow vole—almost statewide *pine vole—S.E. corner of the state







Nebraska's Voles

Photo: Steve Hahus, All Wild About Kentucky's Environment







Prairie Vole



Nebraska's Voles

Pine Voles >Small: 2.8-4.2 inches >Nests: burrows ✓< 1 ft deep >Reproduction: ✓ steady ✤3 months to mature 1-6 litters/yr ♦2-4 yg/litter





Vole Damage Identification *Trails in grass >Caused by travel & clipping the grass





Photo: University of Nebraska–Lincoln

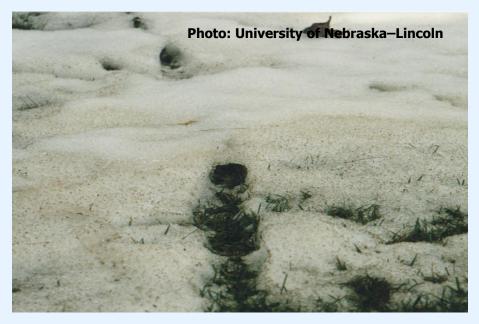




Vole Damage Identification

Photo: University of Nebraska–Lincoln





Voles don't hibernate. They are active even under snow.





Vole Damage Identification

Debarking/Girdling Tooth marks 1/16" wide



Photo: M.E. Tobin. Copyright New York State Integrated Pest Management Program, Cornell University





Vole Management Non-Lethal

Habitat Modification
Install Barriers
Use Repellents





Habitat Modificaton

Reduce ground cover
 Remove crawling ivies
 Remove lawn debris
 Keep grass mowed
 Gravel borders Photo: UT









Habitat Modification

Reduce Food >Bird feeders ✓ Voles will eat the spilled seed ✓ Well fed animals reproduce more rapidly







Barriers



Photo: W. Paul Gorenzel, courtesy University of California Statewide IPM Program



- Fencing: at least 12" high and buried 6"
- Fencing mesh should be ¹/₄" weave
- Include weed free zone
- Plastic cylinders: above potential snow line.
 - Screen the top opening to prevent bird entrapment.



Photo: University of Nebraska–Lincoln



Repellents

Active ingredients > Thiram ▶Capsaicin Can't use for plants destined for human consumption Can be expensive \$\$\$ *Effectiveness weakened by rain





Vole Management-Lethal











Trapping Safety

Wear appropriate safety equipment, such as gloves, when handling traps and animals

Avoid setting traps in areas with high human/pet traffic

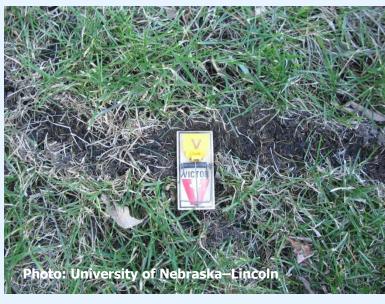
Check traps daily. Don't set them if you can't check them the next day.





Trapping

Trapping with snap traps Place trap perpendicular to trail so that vole must walk over trigger. Cover traps with boxes to prevent non-target capture (see next slide).







Vole Trapping Baits

- * Baiting is NOT necessary if you find trails.
- Peanut butter- be careful around those with allergies to peanut butter
- Bird seed- just glue seed to trap trigger (keep out of view of birds)
- *Oats and molasses (keep out of view of birds)







Trapping Alternative Method

Place two snap traps in the trail with triggers facing away from each other.







Trapping

Multi-catch mouse traps All varieties will work Place opening in line of trail Baiting is optional







Toxicants



 Follow Label Instructions
 THE LABEL IS THE LAW!





Toxicants

*Zinc Phosphide

- Most effective spring and fall
- >Use during fair weather
- >Mow grass prior to baiting
- Place in runs, burrows or bait stations
- Never place in piles or on bare soil

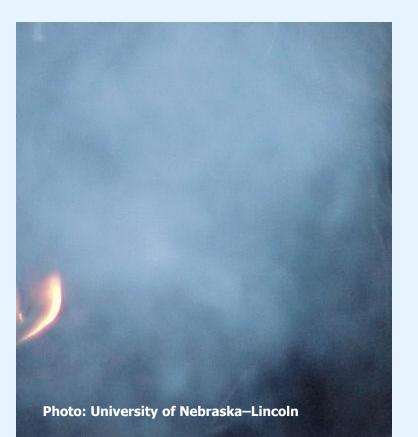






Fumigants

Not recommended Vole tunnels are too difficult to fumigate effectively







Resources & Information

Internet Center for Wildlife Damage Management

>http://icwdm.org

Prevention & Control of Wildlife Damage

>http://icwdm.org/handbook/index.aspx





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