Managing Vertebrate Pests "It takes one to know one"

Guest Lecturer Justin Vitullo

Legal Restrictions:

Vertebrate pest management is governed by more laws than insect pest management. Special laws and regulations restrict how and when you can hunt and kill many animals:

- Migratory Bird Treaty Act
- · Pesticide Laws
- Endangered Species Act
- County Regulations
- State game and Fish Regulations
- Municipal Regulations

Vertebrate pests can be managed by IPM

Cultural Control: Landscape Management tactics that discourage animals from eating the landscape Control weeds and thin out dense plantings at building foundations that can protect rodents from birds of prey.

- . Select unpalatable plant varieties
- Plant barrier vegetation
- Use ornamental fences
- Use temporary fencing for seasonal damage
- · Use rock mulch (if it does not harm plants)
- Killing animals should be pursued after other options have been explored and failed.

Bird Management

Migratory bird treaty act- Protects all birds except pigeons, European starlings and House sparrows





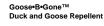


European Starling

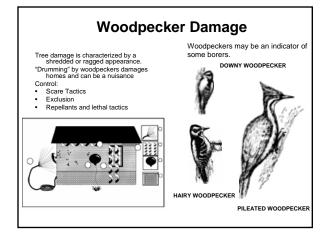
House Sparrow

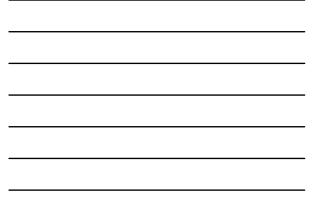
Canada Geese

- People feed geese and they are attracted to turf and water. Problem: create hazardous water. that can pollute water and close beaches. Also knock down toddlers.
- down toddlers. Cultural Control: Plant plants with hair or tough leaves to create barriers on land to keep geese away from public paths. Design ponds with steep slopes to prevent geese from easily moving to turf areas.
- Mechanically remove geese- use herding dogs or leaf blowers. Chemicals with a bad taste can act like repellants.









The yellow-bellied sap-sucker

Damage: neat rows of 1/4" holes closely spaced. Most often, they bore on trees rather than structures since they feed on sap and insects attracted to the sap.



• Control often involves use of devices that distract and discourage birds from beginning to drill.





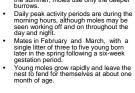






Turf Pests

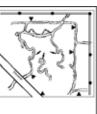
- Moles: active day and night throughout the year.
 most active near the soil surface during the spring and fall on damp days or following rain showers.
 When the ground surface becomes frozen in the winter, or very dry during the summer, moles use only the deeper burrows.
 Daily each activity upoind and during the



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A network of mole runways in a yard. The arrows indicate good locations to set traps. Avoid the twisting surface ridges, and do not place traps on top of mounds

Vole Damage

Dig trenches, Can cause problems chewing through irrigation systems.

Voles eat grain. Poison baits made of grains – laced with toxins control voles





Vole tooth marks are about one-sixteenth inch wide.

Deer Damage

- Rip and tear plants when eating.
- Deer trample many crops as they move about the field
- Cause car accidents.
 Carry nasty things on them like ticks that vector lyme disease.







References

http://www.fnr.purdue.edu/PubsOnLine/Faq1 6w.PDF

http://www.entm.purdue.edu/entomology/ext /targets/ADM/ADMPDF/ADM-5.htm

http://www.entm.purdue.edu/entomology/ext /targets/ADM/ADMPDF/ADM-10.htm