

# Protecting Trees From Wildlife Damage



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# Wildlife & Recreation



# Wildlife damage



# Problem Wildlife

White-tailed deer



Cottontail rabbits



Voles



# Problem wildlife

Beaver



Pocket gophers



Tree squirrels



# Solutions



## Integrated Pest Management

The timely use of a variety  
of cost-effective methods  
to reduce damage to a tolerable level.

“...there are no magic potions or silver bullets...”

# Deer damage

Browsing



deer



rabbit



Rubbing

# Solutions



Predation

# Solutions



Spank and Release Program

# Solutions

## Population reduction



Acute lead poisoning



Manage at 25-35 deer/square mile

# Is Relocating Deer an Option?



*No!*

- costs \$400 per animal
- 60% mortality from stress
- nowhere to put them
- disease transmission



# How About Birth Control?



*Not Really...*

- expensive
- limited effectiveness
- difficult to administer
- biological hazards
- none registered



# Solutions

## Exclusion

### Individual trees

- wire cylinders
- tree shelters



# Solutions



## Exclusion

### Plantings or windbreaks

- 8-foot woven wire
- electrified high-tensile
- electrified polytape

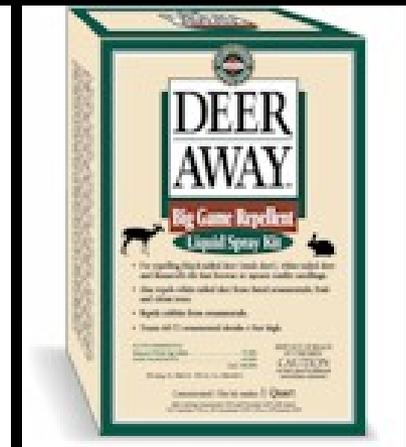


# Solutions

## Repellents

### Active ingredients

- putrescent egg
- capsaicin
- animal proteins
- ammonium soaps
- thiram



# Do repellents work?



*Sometimes...*

- mixed effectiveness
- depends on food stress
- depends on alternatives
- difficult to break a pattern
- expensive
- home remedies



# Do frightening devices work?



*Not very well...*

- deer acclimate quickly
- effigies
- propane cannons
- pyrotechnics
- lasers
- guarding dogs

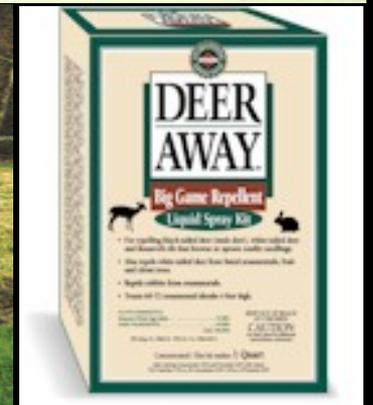


# Solutions

Population reduction

Exclusion

Repellents



# Rabbit damage



deer



rabbit



Clipping



Girdling

# Solutions



## Habitat Modification



# Solutions



## Exclusion



# Solutions



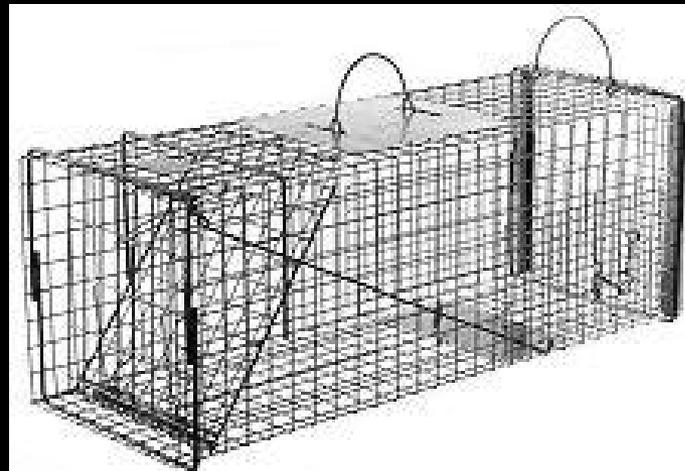
## Repellents



# Solutions



## Cage-trapping



# Solutions



## Shooting



# Vole damage



Population irruptions

Girdling

# Solutions



## Habitat modification

before



after



# Solutions



## Toxicants



# Solutions



## Trapping



# Solutions



## Predators



# Beaver damage



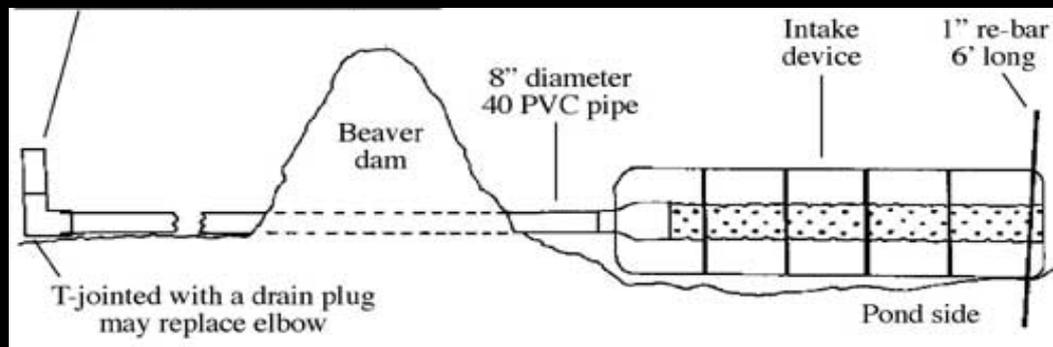
Cutting

Damming

# Solutions



## Habitat modification beaver pipes



# Solutions



Habitat modification  
dam removal



# Solutions

Exclusion

wire cylinders



# Solutions



Repellents

sand paint



# Solutions

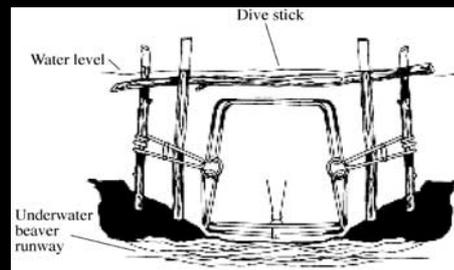
## Cage-trapping



# Solutions

## Trapping

Conibear  
foot-hold  
snare



# Solutions



Methods not recommended

frightening devices

fertility control

toxicants

biological control



# Pocket gopher damage



Mound building

Gnawing

# Solutions



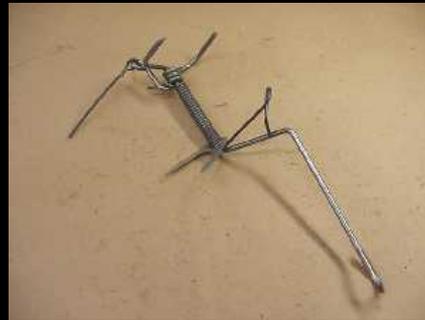
## Toxicants



# Solutions



## Trapping





# Tree squirrel damage



Bark stripping



Twig clipping

# Solutions



Habitat modification

lures



Exclusion

tree cylinders



# Solutions

Repellents  
polybutenes

Trapping



# Solutions



Shooting



# Managing wildlife damage in riparian forests



# Need More Help?

- Consult your state's wildlife agency
- Visit the [Internet Center for Wildlife Damage Management](http://icwdm.org)  
<http://icwdm.org>
- [402-472-8961](tel:402-472-8961)