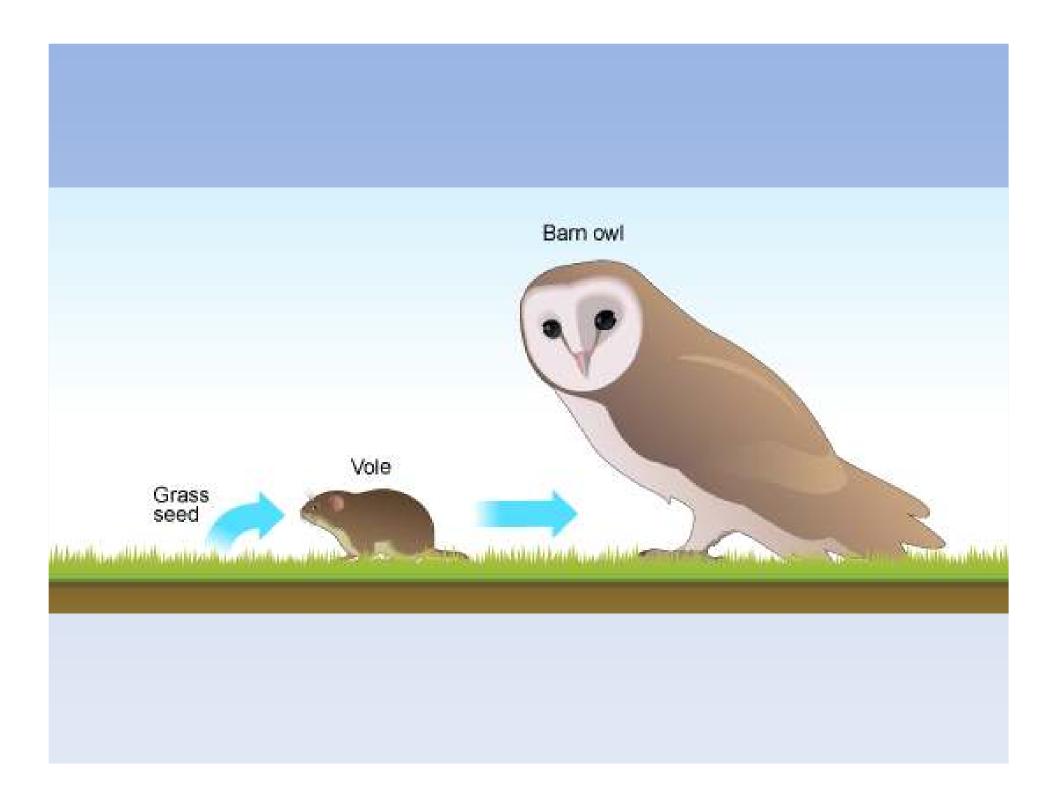
## Managing Barn Owls for Rodent Control

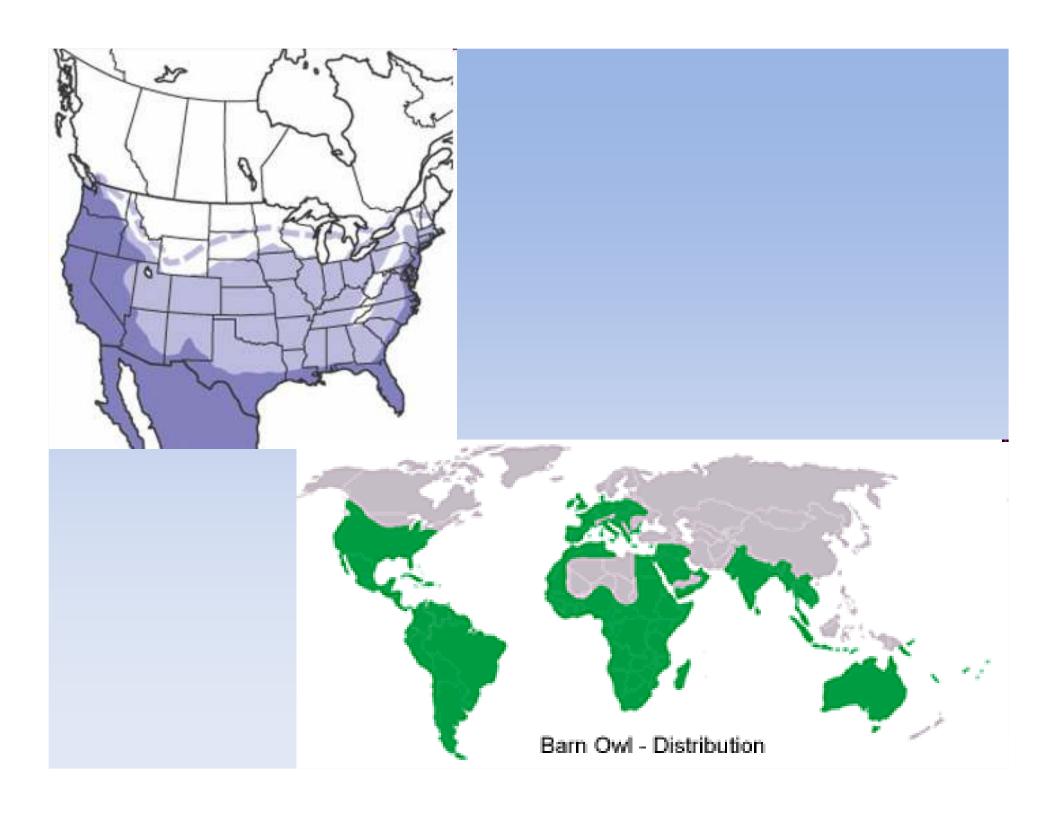
Presented by Mike Omeg













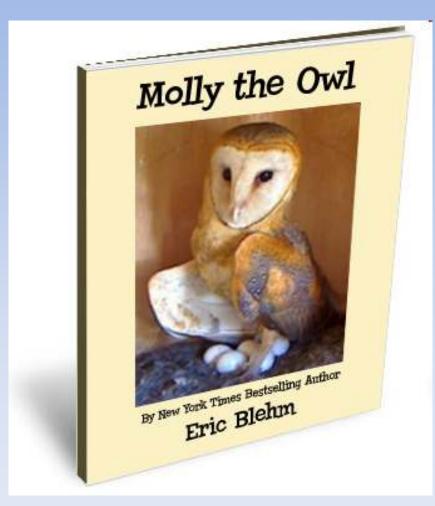
#### Why encourage barn owls?

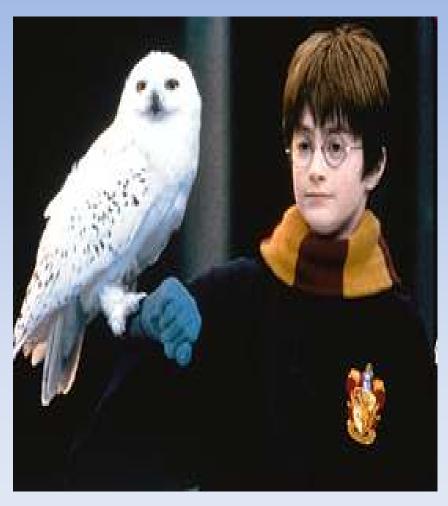
Rodent damage is a "hidden" cost:

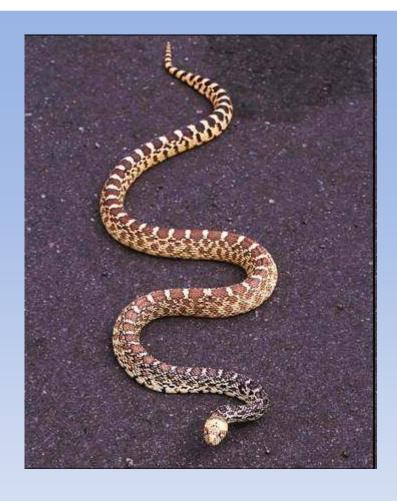
How much does the loss of trees and reduced vigor from rodents cost you each year in replacement trees and lost vigor/production?



### Everyone loves Barn Owls! Make it a selling point.

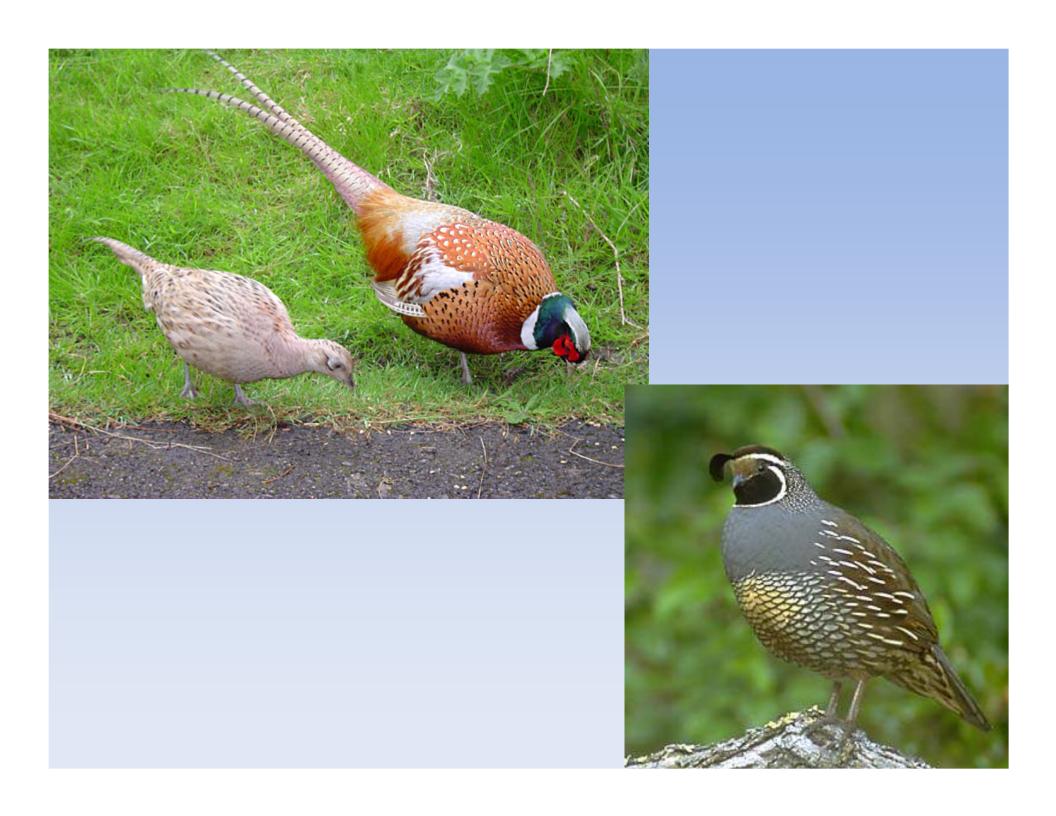












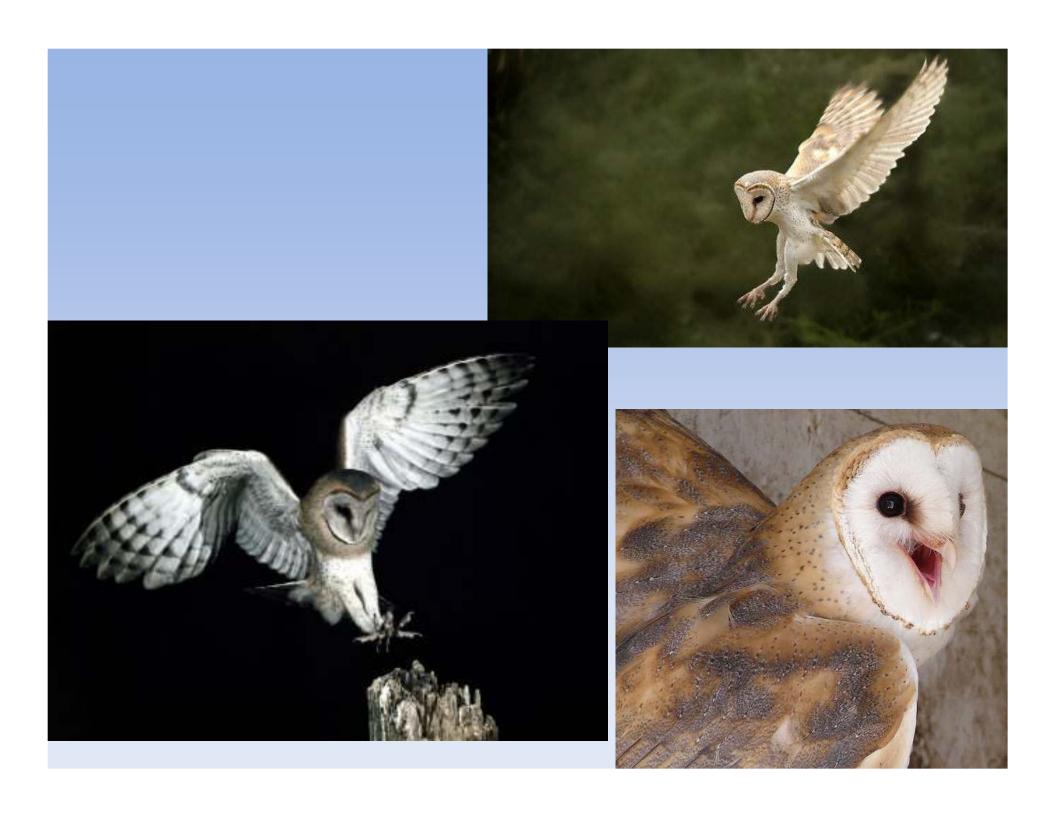




#### **Owls are Raptors**

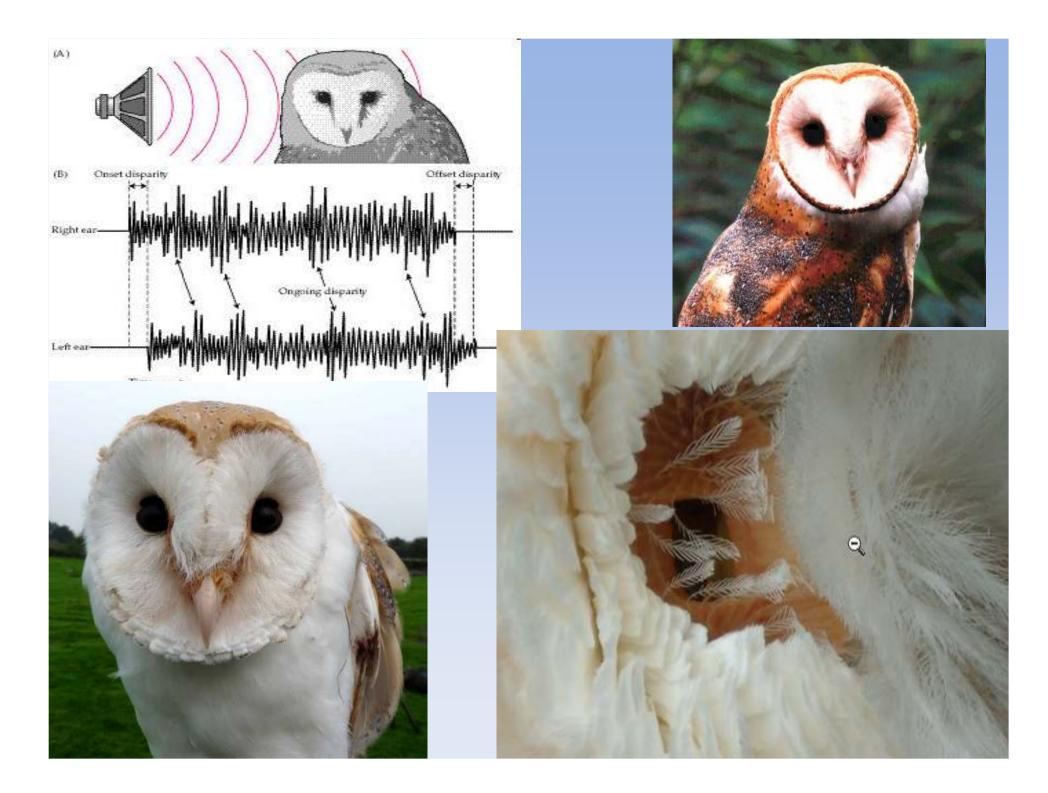
















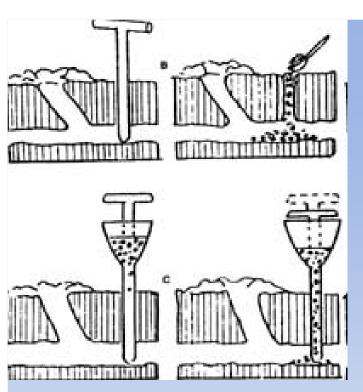




















### Barn Owls and Your Wallet: Annual Rodent Control

- Seavert budgets \$30.11/acre/yr (2007 budget)
- Omeg Orchards: approx \$43/acre/yr
- Cooper Orchards (labor): approx \$34/ac/yr
- These figures do not account for buying the equipment- gopher machine, spreader.
- For a 20 acre block @ \$43/ac= \$860/yr
- 20 acres requires 2 owl boxes @ \$250ea installed = \$500
- Barn owl boxes will pay for themselves in just a year or two once occupied.

# Barn Owls and your Wallet: Young tree loss

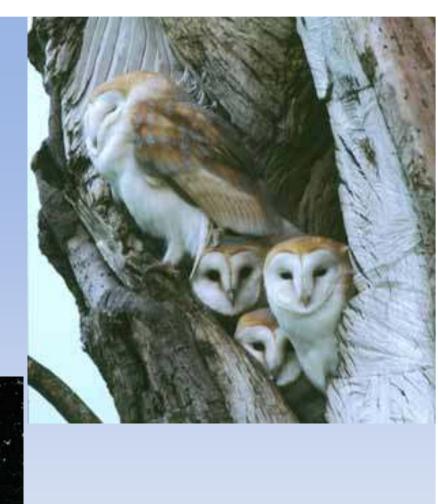
- At 340 trees per acre (8x16 spacing) the cost buying and planting a tree is \$17.09 per tree (Seavert).
- For a 20 acre block with gopher problems:
  - 20 acres at 8x16 spacing = 6,800 trees
  - ½ % trees loss to gophers = 34 trees
  - 34 dead trees x \$17.09/tree = \$581.06 each year
  - 3 years of ½ % tree losses = \$1,743 lost dollars
  - Replanting dead trees will add even more cost!
- 20 acres of orchard requires 2 owl boxes @
   \$250ea installed = \$500

### Barn Owls and Your Wallet: Annual Rodent Control

- Rodenticides cost approx \$1 to \$1.50 per pound
- Recommended rates are 5 lbs/ac = \$5 to \$7.50ac
- Treat 5% of a 200 acre field = \$50 to \$75 each time you treat.
- Normally treat 2x per year = \$100 to \$150/yr
- These figures do not account for buying the equipmentspreader or labor.
- 2 owl boxes @ \$250ea installed = \$500
- Barn owl boxes will pay for themselves in saved materials cost just three to five years once occupied. EVEN LESS time if you figure equipment and labor.

#### Barn Owls will Help!













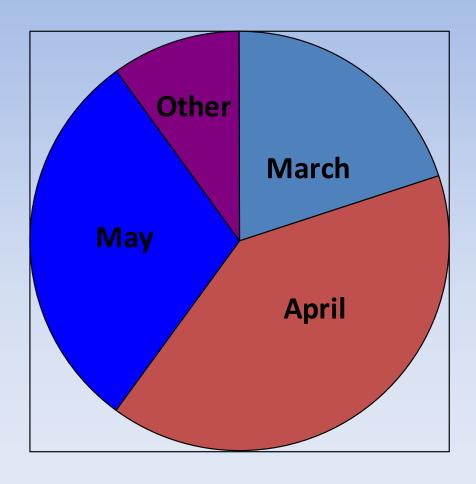






#### Beginning of Nesting









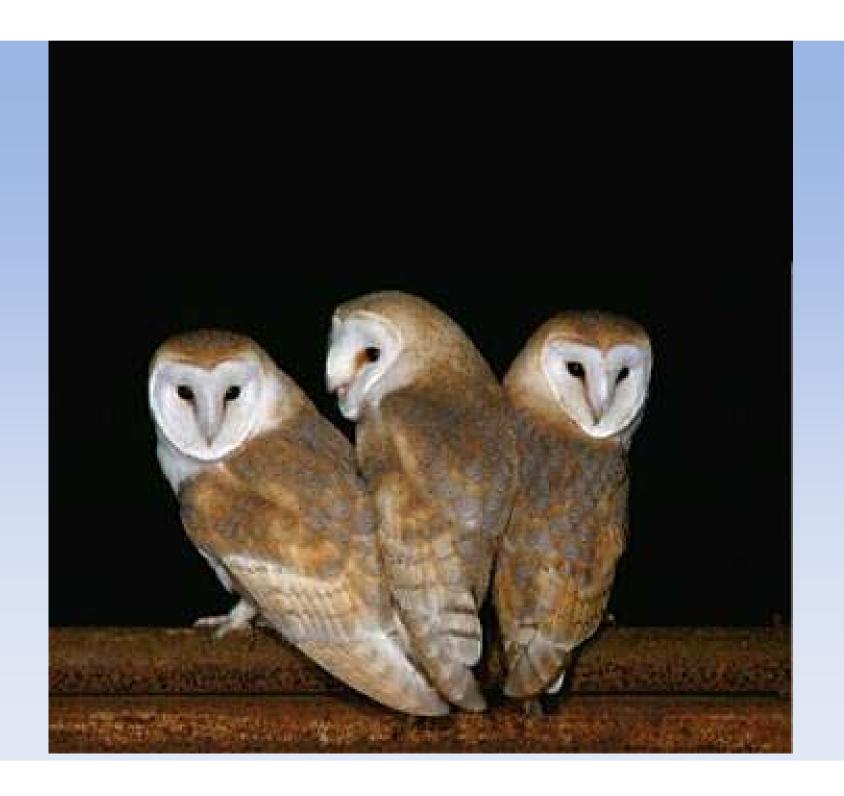






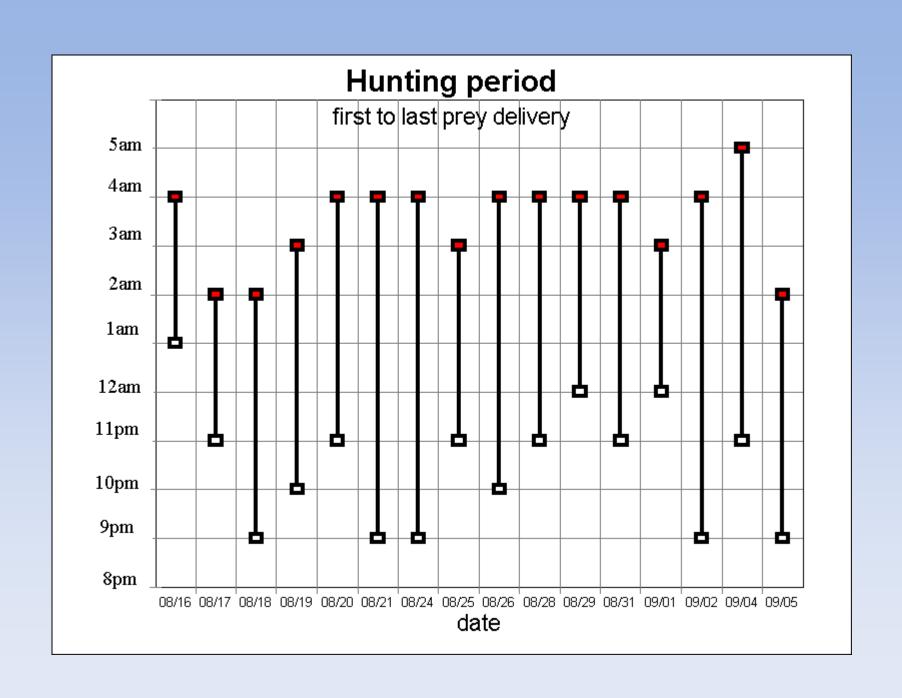
#### A guide to ageing young Barn Owls

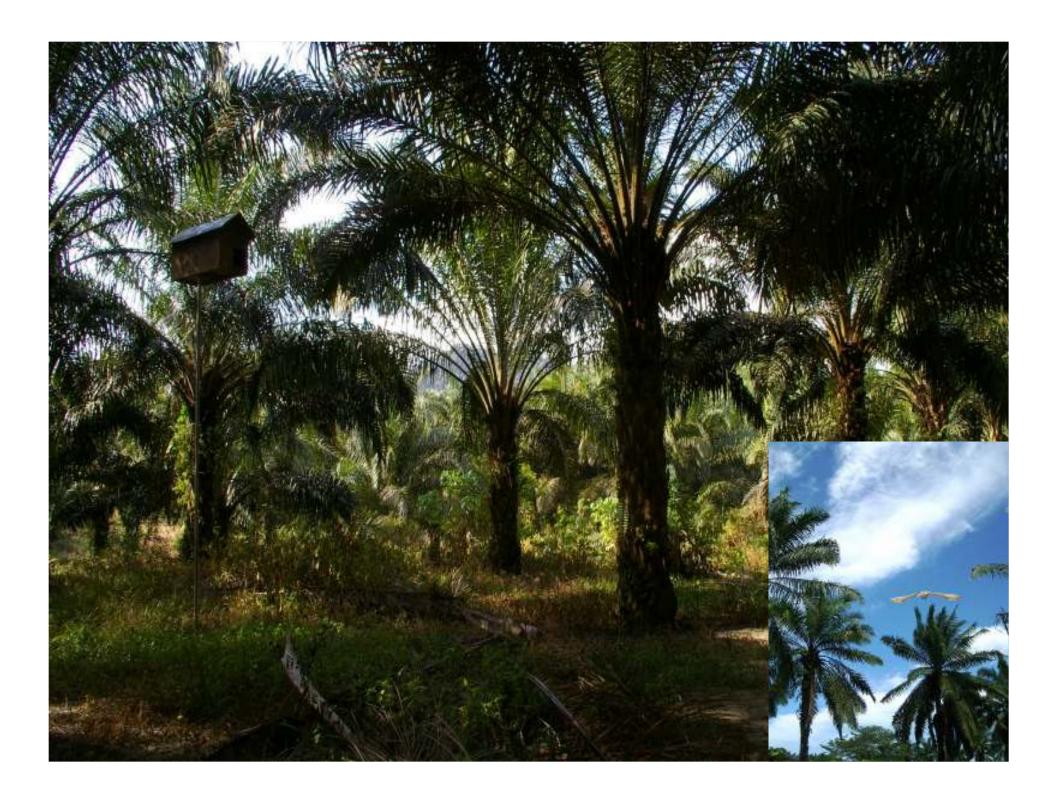












# Barn Owls Eating Gophers

- A family of barn owls will eat 10-12 gophers per night during the 4 month brooding period (Apr-Jul)
- Barn owl adults eat at least 1 gopher per night during the rest of the year
- A family of 2 parents and 5 young will eat over 3000 gophers in one year
- How much must you spend to control 3000 gophers?



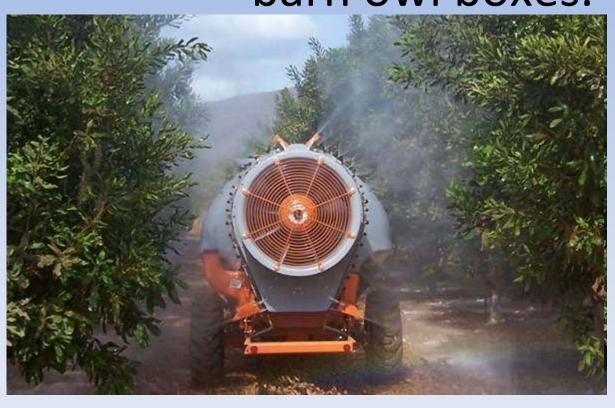
# Barn Owls Eating Voles/Mice

- A family of barn owls will eat about 120 voles per night during the 4 month brooding period (Apr-Jul)
- Barn owl adults eat up to 10 voles per night during the rest of the year

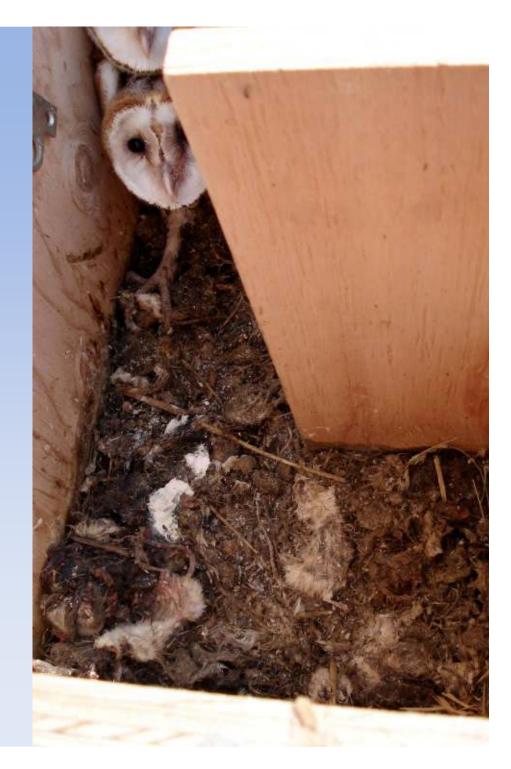




If you need to wear a respirator to spray don't apply the product to your barn owl boxes.







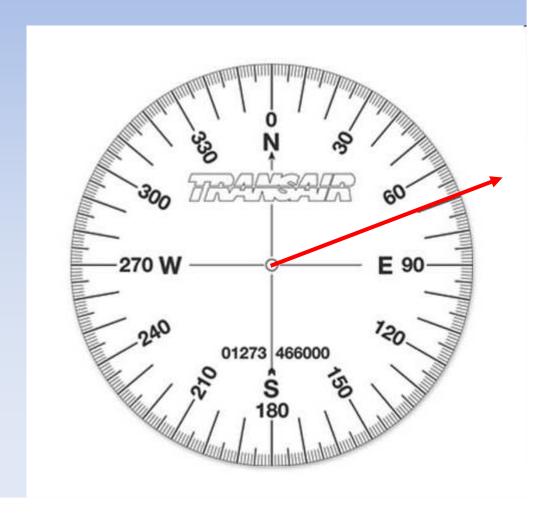
### Owl Box Placement

- Use a steel pole 8 feet or more high
- Face entrance to true east
- Locate within 50 yards of a nursery tree
- Place at the edges of your orchard
- Avoid roads
- Don't forget maintenance
  - Yearly cleanings
  - Paint if needed
  - KEEP STARLINGS OUT!



# Face the box true East

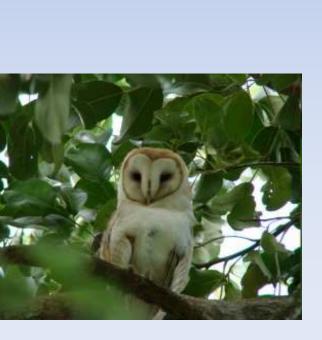




# Nursery trees are important

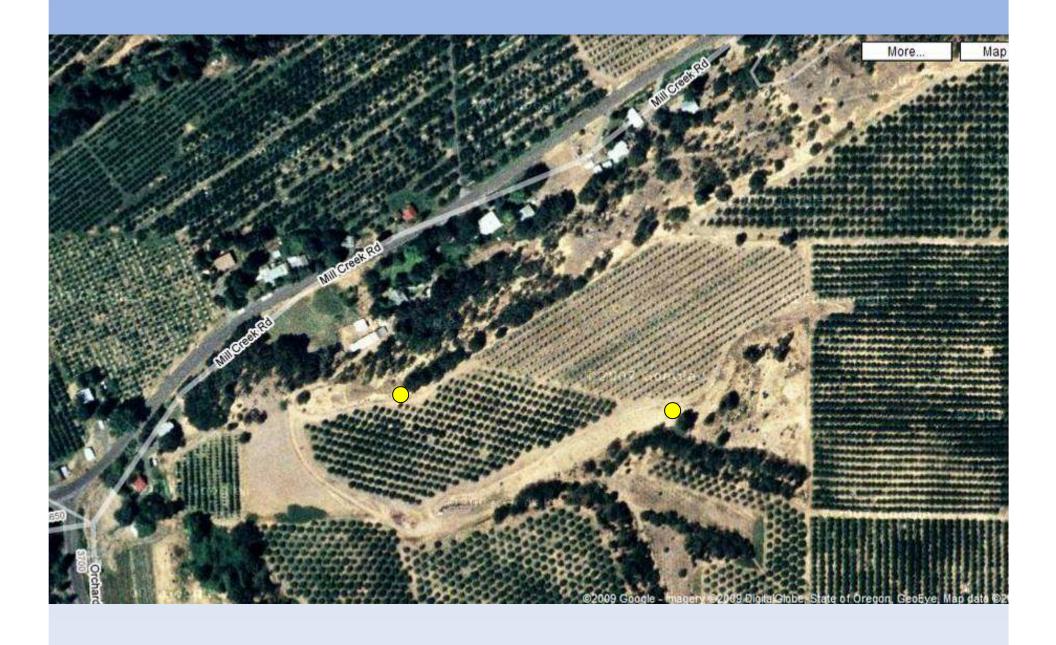


Within 50 yards to the front of the box











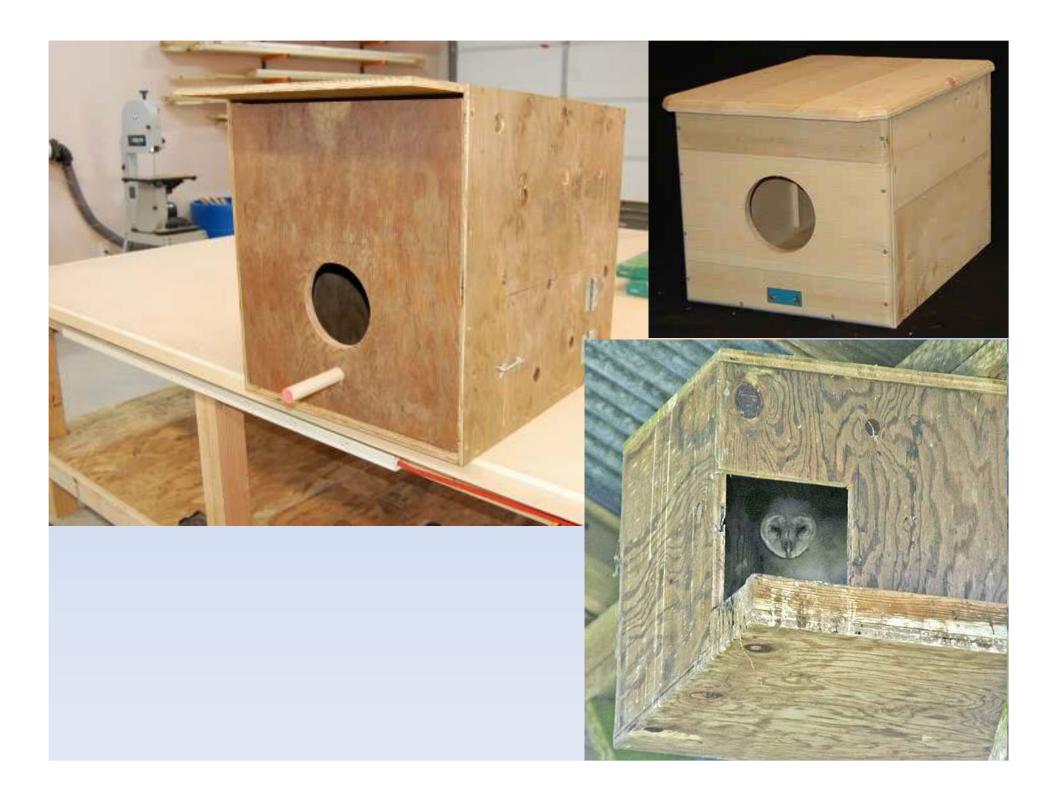


# A good quality owl box

- Made of ¾" plywood that is screwed and glued
- At least 2 ft sq- bigger is better
- Stained or painted
- Sun shade on top and back
- 4x3" elliptical entrance hole
- Internal predator baffle
- Top and bottom ventilation holes
- Doesn't have a perch if other owls species are in the area







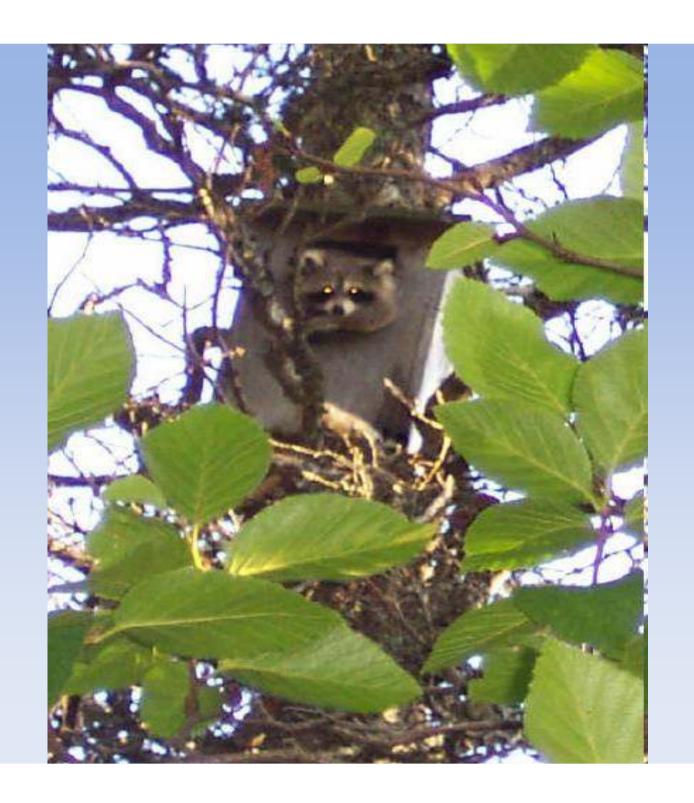






















# Some rodenticides are dangerous, others are relatively safe

### Lethal:

- Brodifacoum
   D Con
- Diphacinone Ramik
   Green/Brown
- Bromadiolone

### **Sub lethal:**

Difenacoum

### No adverse effects:

- Chlorophacinone –
   Rozol Vole Bait
- Strychnine
- Zinc phosphide
- Fumarin

## Rozol

- 10x less toxic to dogs than Ramik
- Virtually no risk of secondary poisoning to birds
- Cheaper
- Lasts longer







# Questions? Omegorchards.com Tucksdwellings.com



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