Wildlife in the Urban Interface

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What is Wildlife?

- Animals, fish, birds......
- Animals with intrinsic, social, cultural and economic values....
- Source of food and a vital part of the cultures and economies...
- Indicator of the health of that environment...
- Do or should we assume a stewardship responsibility for wildlife



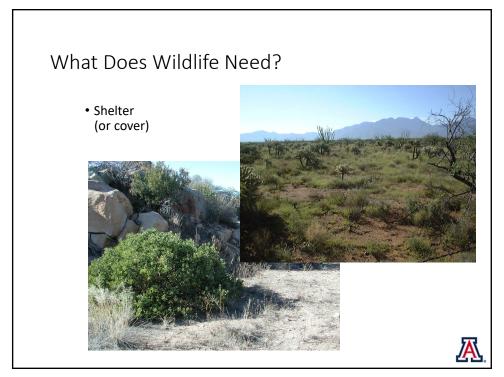














Elements of Habitat

- 1. Food
- 2. Water
- 3. Space
- 4. Shelter
- 5. Arrangement





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Habitat can be changed...

- Altering any one habitat element will change how wildlife uses the area
- To attract, learn the habitat preferences of the desired species and add or enhance those elements
- To discourage, learn the habitat preferences of the unwanted species and remove or modify those elements
- Large gravel areas and/or mowed lawns are not attractive to wildlife



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Wildlife Enhancements

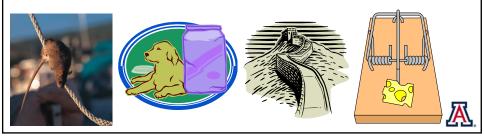
- Feeders
- Water features
- Nectar producing plants
- Diverse structures
- Preserve dead and down material
- Bird/bat houses

- Brush piles
- · Wildlife friendly fences
- Contain dogs/cats
- Native landscaping
- Allow plants to grow naturally
- Be patient



Dealing with Problem Wildlife

- Use Integrated Pest Management (IPM)
 - 1. Correctly identify the pest
 - 2. Employ prevention options
 - 3. Select a population control strategy
 - 4. Monitor for reinfestation



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Legal Status



- In Arizona, most wildlife species are protected
- Some are not, these include:
 - Wood rats (Pack rats)
 - Norway rats
 - House mice
 - Ground squirrels
 - Pocket gophers
 - Rock doves (Pigeons)



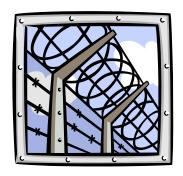
lings lish sparrows (House sparrows)





Prevention Measures

- Habitat modification
- Exclusion
- Frightening
- Repellents



Prevention is Long Term Control is Short Term



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Habitat Modification

No Food

No Water = No Pests

No Shelter

No Access





Habitat Modification

- Removal of Attractants
- Limit Shelter
- Sanitation









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Exclusion

- Fences
- Barriers







Frightening

- Sight and/or Sound
- Habituation







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Repellents

- Odor
- Taste
 - Pain Malaise
- Touch



All repellents work some of the time No repellents work all of the time

Population Control Measures

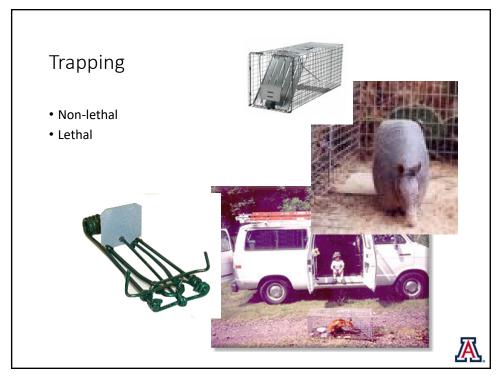
- Trapping (lethal or live)
- Toxicants
- Fumigants
- Shooting
- Biological Control







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Toxicants

- General or Restricted Use
- Read Label
- Hazards
 - Non-Target
 - Primary
 - Secondary
 - Environment

• Not recommended for most situatio



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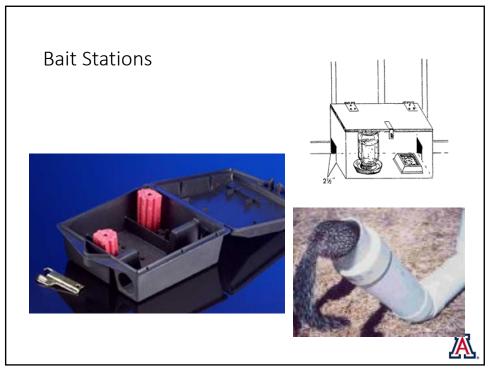
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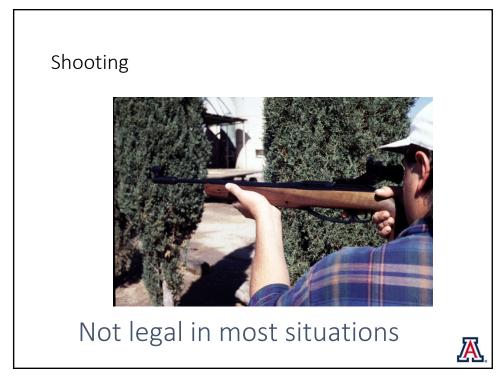
Fumigants













Health/Safety Concerns

- Zoonotic Diseases
 - Rabies
 - Hantavirus
 - Plague
- Parasites
- Handling/Disposal
 - Gloves
 - Wash Hands



Pocket Gopher

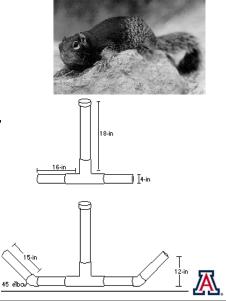
- Trapping
- Exclusion (hardware cloth wrapped around root pair or garder perimeter)
- Fumigants
- Poison Baits
- Repellents
- Resistant plants



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Rock Squirrel

- Fumigants
- Trapping
- Toxicants
- Eliminate brush and rock piles, other habitat features
- Flood irrigation



Woodrat (Packrat)

- Exclusion (buildings)
- Trapping
- Anticoagulants
- Destruction of dens

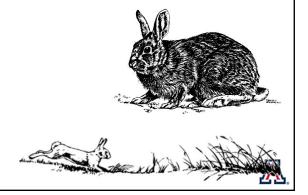




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Cottontail Rabbit

- Exclusion (1" chicken wire, 2 ft above and 1 ft below)
- Plant resistant plants
- Habitat modification
- Repellents
- Trapping
- Biocontrol



Beaver

- Exclusion (low fence, wire or electric)
- Hardware cloth barriers around trees
- Live trapping



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Skunk

- Exclusion
- Remove attractant
- Live traps
- Ammonia/moth balls?
- Skunk Deodorizer Recipe
 - 1 qt 3% Hydrogen Peroxide
 - ¼ cup baking soda
 - 1 tsp dish detergent





Raccoon

- Exclusion (best solution)
- Remove attractant
- Live traps
- Professional assistance





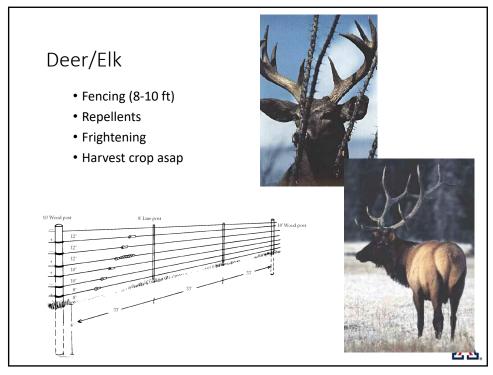
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Javelina

- Sturdy fencing (2½ 3ft)
- Electric Fence
- Remove attractant







Wildlife Damage Control Professionals (NWCOs)

- Licensed by the Arizona Game and Fish Department
- Look in the Yellow Pages under "Pest Control"
- Or, call your local Arizona Game and Fish Office





On-line Resources

Internet Center for Wildlife Damage Management

icwdm.org/

ICWDW Handbook

digitalcommons.unl.edu/icwdmhandbook

Yavapai County Cooperative Extension

extension.arizona.edu/yavapai

The Mammals of Texas

www.nsrl.ttu.edu/tmot1/

