### 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







# What Does Wildlife Need? • Food







### What Does Wildlife Need? • Arrangement

### Elements of Habitat

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





### 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
- Large gravel areas and/or mowed lawns are not attractive to wildlife



### 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

  - Select a population control strategy
  - 4. Monitor for reinfestation









### 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
  - Pock doves (Pigeons)



lish sparrows (House sparrows)





### Prevention Measures

- Habitat modification
- Exclusion
- Frightening
- Repellents



### **Prevention is Long Term**

**Control is Short Term** 



Habitat Modification

No Food

No Water = No Pests

**No Shelter** 

No Access





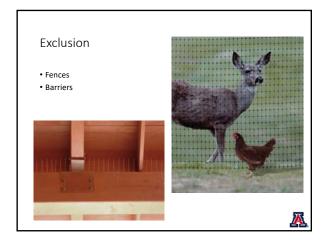
### Habitat Modification

- Removal of Attractants
- Limit Shelter
- Sanitation













### Population Control Measures

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







### Trapping • Non-lethal • Lethal

### Toxicants

- General or Restricted Use
- Read Label

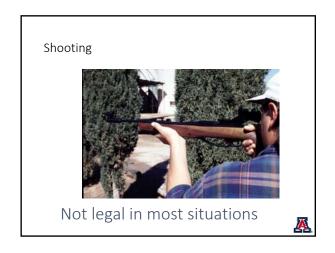
- Hazards
   Non-Target
   Primary
   Secondary
   Environment
- Not recommended for most situatio











### **Biological Control** • Predators • Diseases • Birth Control

### Health/Safety Concerns

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



### Pocket Gopher

- Trapping
- Exclusion (hardware cloth wrapped around 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





### 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



### 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





### Javelina

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





# Deer/Elk • Fencing (8-10 ft) • Repellents • Frightening • Harvest crop asap

### 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





rnet Center for Wildlife Damage Management		
vdm.org/		
DW Handbook		
gitalcommons.unl.edu/icwdmhandbook		
pai County Cooperative Extension		
extension.arizona.edu/yavapai		
Mammals of Texas		
www.nsrl.ttu.edu/tmot1/		