

Objectives

- History of Wildlife Austin
- Define threats to wildlife habitats, specifically pollinator habitats
- Define the 4 elements of a wildlife habitat
- Landscaping principals to attract wildlife
- NWF certification and suggested plants



The History of:



Past, Present, and Future



Wildlife Austin Today...

Wildlife Austin became certified in 2009!

Now, we are charged with keeping Austin certified.

- Have a certain number of newly certified habitats each year
- Education and outreach activities
- Maintain the website



Mentor other communities interested in certification

Wildlife Austin Today...

Our newsletter –



Garden of the Month

This month we feature the lovely natural garden of Valerie Barron.



Living In a WUI

Covotes

(WUI). Coyotes have a large range of habitat that spreads as far south as Panama and as far north as in Prior to European settlement, their range is estimated to have been limited to the southwest and plai and Canada. With the removal of wolves (Canis lupus and Canis rufus) due to decreasing wilderness I States and Mexico in the 1900's the coyote's range greatly expanded. Unlike wolf populations, which generally depend on wilderness settings and larger prey, coyotes are extremely adaptive. With urbanization, their population (and human contact) have increased. Generally seen at dusk and dawn, coyotes are long and lanky with dark brown to black coloration on the saddle and neck with lighter brown fur cover-

Some land managers and scientist agree, that coyotes may be

ng the flanks and legs

Living In a WUI

Rodentia

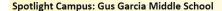
With the January weather turning cool, there is an increased need for food and shelter in the Austin Wild land Ur-

ban Interface (WUI). In the late winter months some Austin residents report seeing more rodents scurrying to collect precious resources to ensure their survival in the coming months. As winter sets in and temperatures drop it is not unusual to see the fuzzy faces of Rodentia (rodents) burrowing, scurrying or gnawing at the Wildlife Habitats that provide food, shelter, water and a place to raise young for Austin's wildlife. It is important to remember that wildlife everywhere has inherit value



ut there are steps we can take to ensure that our wildlife habitats and properties attract the wildlife we intend.

Schoolyard Habitat Update Schoolyard Habitat Update



By Anne Muller (AISD Outdoor Learning Specialist)

Students rock at Garcia Middle School! From habitat design, to moving rocks and soil around and planning and implementing the ribbon cutting ceremony-they've done it all! Garcia is one of the 2011-2012 Certified National Wildlife Federation Habitats.





The Future of Wildlife Austin

- Maintain Austin's certification
- Community Education—Habitat Stewards
- Habitat establishment on City property
- Habitat Establishment on School Grounds
- Community gardens
- Increased focus on pollinators







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McNeil High School





Blackshear Elementary





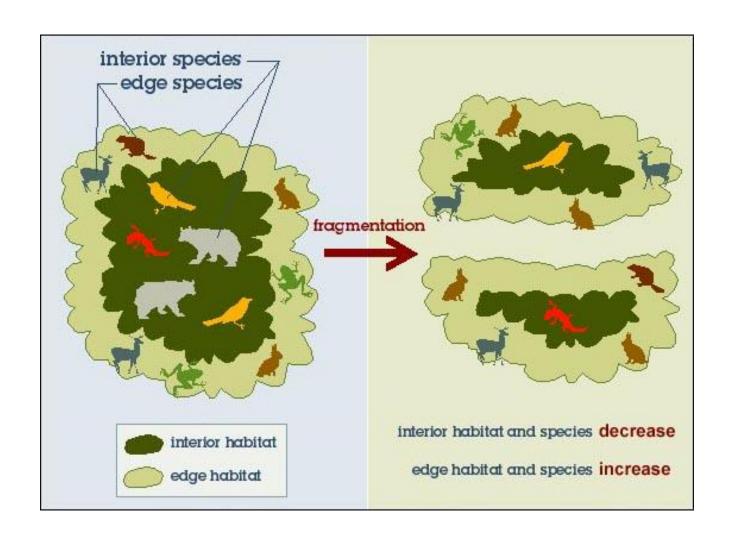


Why are Wildlife Habitats at Risk?

- Habitat Fragmentation
 - The loss of habitat due to parceling and piecing off of habitat
- Habitat Destruction
 - Habitat is completely removed
- Habitat Degradation
 - The decreased ability of a habitat to provide the basics to wildlife

Threats to Wildlife Habitat

Habitat Fragmentation



Fragmentation Cont'd



Habitat Degradation

Pollution

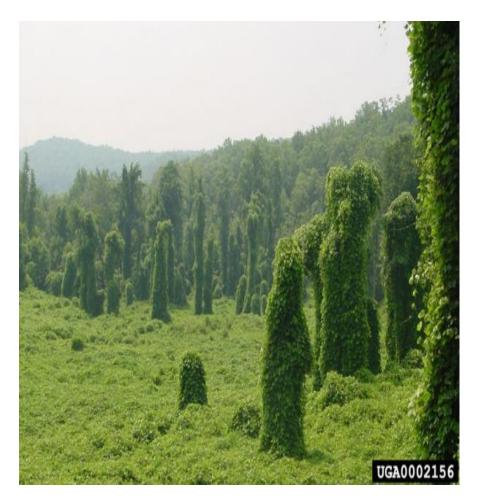


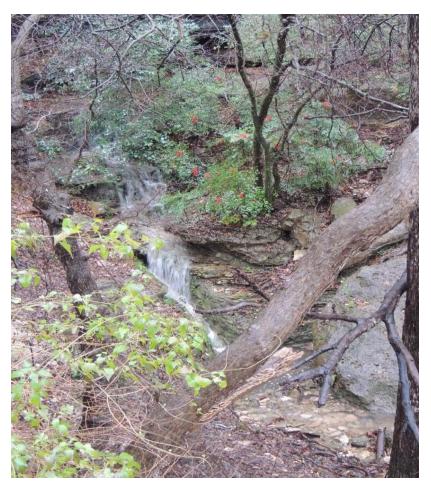
Monoculture



Degradation Cont'd

Invasive Species





Habitat Destruction





Loss of Pollinators!

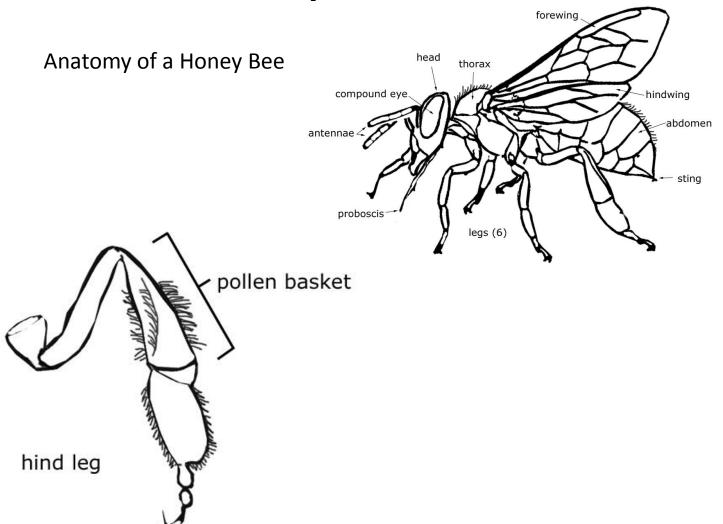
Colony Collapse Disorder

- Our bees are disappearing...
- We don't want to have to pollinate by hand!





Why are pollinators so good at their job?



What percentage of food that we eat are dependent upon pollinators for production?

• B--50%

• C--30 %



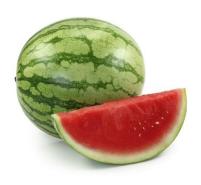
Just how important are they?

Fruits and Nuts:

- Apple, Chestnut, Macadamia, Peach
- Apricot, Coconut, Cacao, Nectarine
- Crabapple, Oil, Palm, Olive, Pear
- Cashew, Date, Cherry, Plum
- Fig, Papaya, Passion fruit, Kiwi
- Pomegranate, Strawberry, Raspberry, Cranberry
- Blackberry, Blueberry, Gooseberry, Grapes



Still not convinced?



Vegetables:

- Artichoke, Asparagus, Balsam, Pear, Beet
- Broccoli, Brussels, Sprouts, Cauliflower, Carrot
- Celery, Chicory, Cucumber, Chive
- Eggplant, Leek, Green, Pepper, Parsnip
- Pumpkin, Squash, Rutabaga, Tomato
- Turnip, Watermelon, White, Gourd, Radish



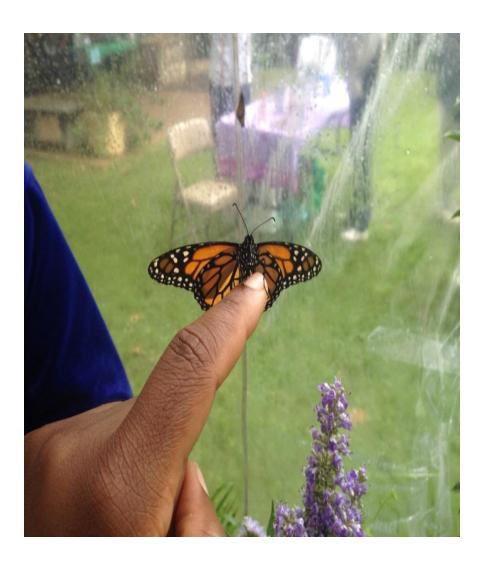
How about now?

- Coffee, Dill, Parsley, Lavender
- Black Pepper, Mustard, Sunflower, Vanilla
- Sesame, Nutmeg, Fennel, Guava



Coffee = life force.

Special Relationships





Landscape Principals for Wildlife

- Diversity
- Layering
- Pay attention to edges
- Native Plants

Diversity

Figure 1. A habitat with variety-or diversity-means wildlife will have more to choose from, so they are more likely to find what they need. Habitat diversity allows more animals to successfully coexist in your yard.



Low habitat diversity equals fewer wildlife species

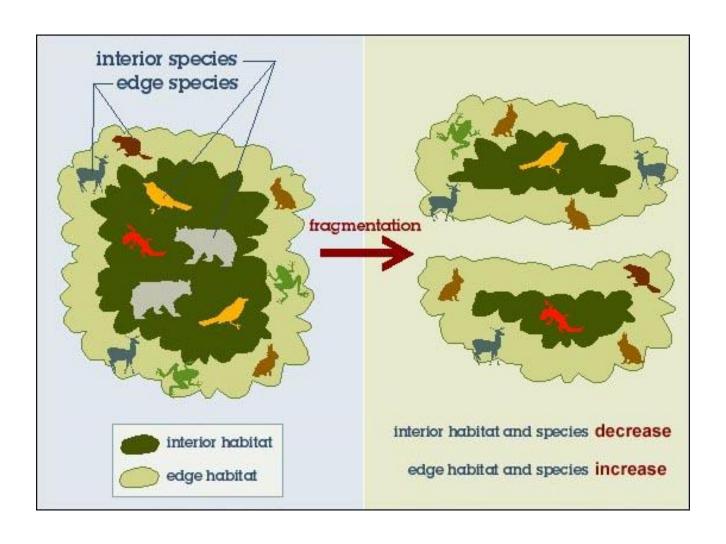
High habitat diversity equals more wildlife species.

Layering

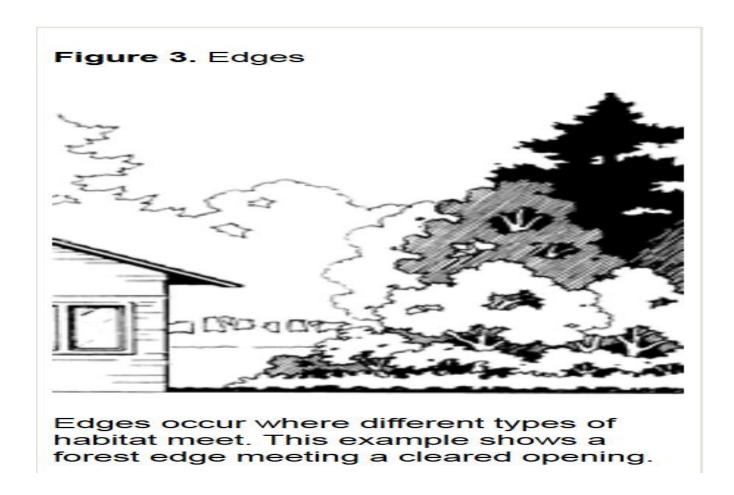


Figure 2. Different species of wildlife, especially birds, live at different heights in the vegetation. Having many layers of vegetation in your landscape allows wildlife to select the layer to which they are best adapted for survival. Missing plant layers equals missing wildlife species.

Edges



Mimic Nature's Edges



Native Plans

- Native—plants here prior to European settlement
- Adapted—plants that arrived after European settlement but have adapted to this region.
- Invasive— plants the spread aggressively outside of its native habitat
- Exotic—opposite of native
- Exotic Invasive-- plants spreads aggressively outside of its native habitat.

Myths and Myth Busters

Myth

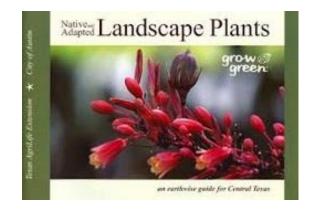
- Attract Rats/Mice
- Breed Mosquitoes/pests
- Create a fire hazard
- Produce air-borne pollen
- Lower property value

Fact

- A clean maintained landscape does not attract European mice
- Naturalistic landscapes soak up more water.
- If properly managed natural landscapes present no more fire danger
- Exotic grasses, ragweed and oaks are primary allergen producers
- Property value is a function of public perception



How to Help?



- Use Native/Adapted Plants
- Choose Plants with diverse colors
- Choose flowers with different shapes and sizes
- Select plants with varying heights and growth habits and flowering times
- Include plants that provide for butterfly larva as well as nectar and pollen producing flowering plants

... Encourage Certification



- According to NWF you need 5 things to get a property certified:
 - Food Seeds, Nectar, Fruit (provided by native plants)
 - 2. Water Bird bath, Pond, Backyard Creek
 - 3. Shelter Thickets, Rock Piles, etc.



- 4. Places to Raise Young Large Trees, Host Plants, Nesting Boxes
- 5. Sustainable Gardening Practices Mulching, Compost, etc









Incorporating Food



Incorporating Water











Incorporating Cover



Places to Raise Young





Sustainable Gardening Practices











Getting Certified...

How it works...

Certify new backyard habitats through the National Wildlife Federation certification (contact wildlife@austintexas.gov for a pre-paid application form worth \$20)

your community. Do your be if something is missing. If yo personalized certificate suit National Wildlife Federation	Idlife friendly space in your yard, school, or anyw set to answer the questions and we'll make sugge our habitat meets the requirements, you'll receive able for framing and become a member of the (a \$20 value), receiving our award-winning	estions WILDLIFE
National Wildlife magazine. certification application exp	For questions call 1-800-822-9919. Pre-paid ires on December 31, 2013.	PARKS OR RECREATION Cultural Places, Natural Spaces
If yes, have you moved	ore?YesNo If yes, what is you or is this for a second property?	PRE-PAID BW/2VAUS
Name	Organization (if applicable))
Name(s) to Appear on Certif	icate (if different from above)	
Address of Habitat	Maximu	um 30 characters, spaces included.
City	State/Province	Zip Code





• Flame leaf Sumac - Rhus lanceolata



- Only in rocky/limestone soils
- Beautiful fall color
- Small to medium sized tree
- Also larval host plant for two butterflies







- American Beautyberry Callicarpa americana
 - Grows well in moister conditions
 - Good shade plant
 - Beautiful berries in late summer/fall
 - Great for wildlife!







- Coralberry Symphoricarpos orbiculatus
 - Does well in moist soil
 - Has beautiful magenta berries in the fall and winter
 - Great option for ground cover
 - Great for birds





- Fall Aster Aster oblongifolium
 - Grows well in more rocky soils
 - Blooms a lot!
 - Great source of nectar and very pretty







- Fall Obedient Plant Physostegia virginiana
 - Very tolerant of most soil types
 - Great nectar source
 - Can be aggressive but easy to keep in check





- Big Muhly Muhlenbergia lindheimeri
 - Well-behaved clump grass
 - Needs little water
 - Beautiful fluffy seed heads in the fall







Other plants to consider...

- Milkweed Asclepias sp.
 - Several species to chose from
 - Generally flowers earlier but the tropical kind is still going
 - Provides food to monarch caterpillars
 - Great to have in your garden year round!







Other plants to consider...

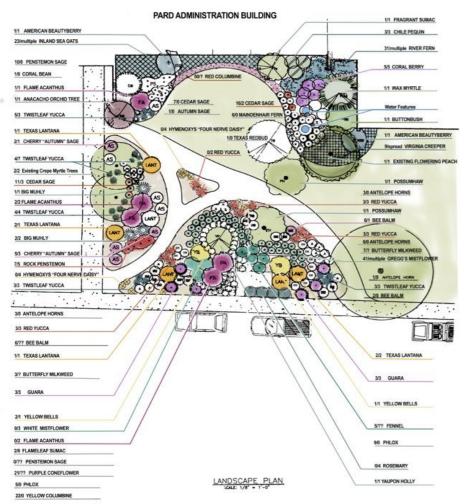
- Sunflowers *Helianthus* sp.
 - Generally bloom earlier
 - Seed heads have great wildlife value!

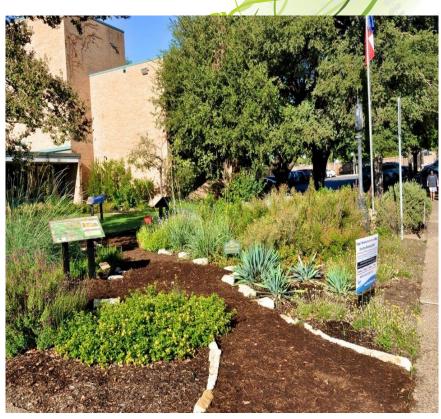




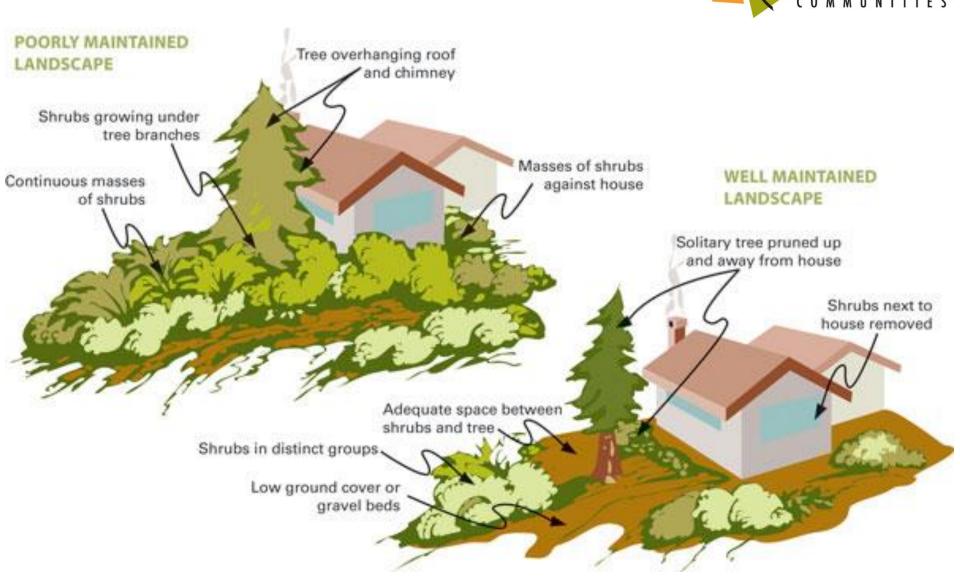


Examples and Resources





If you're in the WUI... think wildfire mitigation!



Join Our Fall Habitat Stewards Training

September 2015 - check our site--http://www.austintexas.gov/department/wildlife-austin

You'll Learn About:

- How to Create Wildlife Friendly Habitats
- Native and Invasive Plants
- Landscape Design Principles
- Water Conservation
- Riparian Restoration Techniques
- Beneficial Insects
- Community Stewardship
- Schoolyard Habitat Projects
- Native and Local Wildlife
- Invasive Plant Ecology and Management Techniques
- Riparian Habitat Restoration

