



Riparian Restoration

path to riparian forest



Why?

Great Habitat
- Provides habitat for native plants and animals
- Filters sediment and nutrients from runoff
- Reduces erosion
- Improves water quality



Banking vegetation



Healthy Riparian



Riparian Restoration



Riparian Restoration

Riparian Restoration



getting our riparian forests back!

Why?



slow down water and reduce runoff
absorb nutrients
trap leaves and other debris
increase the amount of water penetrating the soil



hold soil with the roots



shade the creek reducing water temperature
carbon sequestration



food and other resources for wildlife



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carbon sequestration



food and other resources for wildlife



Water temperature
variation

Creek Protection

- Critical Water Quality Zone
 - all creeks with drainage area 64 acres or more
 - Development is prohibited with few exceptions
- Floodplain
 - Development restrictions
- Erosion hazard zone
 - Special rules for development

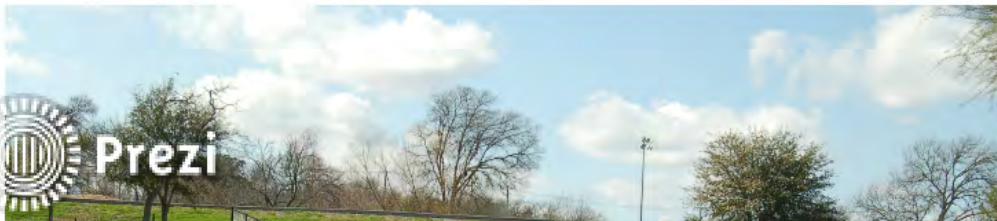
Guiding Principles

Eliminate main disturbance (mowing)



Guiding Principles

Eliminate main disturbance (mowing)





Guiding Principles

Let the wood stay

bird and insect habitat



habitat for aquatic life



slow down water

debris capture



nutrient cycling

microbial soil diversity

bird and insect habitat



habitat for a



habitat for aquatic life

slow down water

debris capture





debris capt



nutrient cycling



microbial soil diversity



Guiding Principles

Management based on site conditions

Canopy vs. open?



Dry or wet?



Invasive species dominating?



Open and Dry



green sprangletop
sideoats grama
black grama
sand dropseed
indian blanket
mexican hat
black-eyed Susan
common sunflower



Open and Dry

August 2012



August 2013



Open and Dry



green sprangletop
sideoats grama
black grama
sand dropseed
indian blanket
mexican hat
black-eyed Susan
common sunflower





Open and Wet



eastern gamagrass
bushy bluestem
switchgrass
Canada wild rye
green sprangletop
American basketflower
obedient plant
Maximilian sunflower
lemon mint

ncern

Bamboo



Prezi

Open and Wet

February 2012



September 2013





Open and Wet



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Bamboo



Prezi

Invasive Species of Concern in Open Areas

Giant Cane



Bamboo



UGA1237038



Johnson Grass

Canopy and Dry



inland sea oats
Canada wildrye
sideoats grama
black-eyed Susan
Illinois bundleflower
purple coneflower
scarlet sage



Canopy and Dry



Canopy and Dry



inland sea oats
Canada wildrye
sideoats grama
black-eyed Susan
Illinois bundleflower
purple coneflower
scarlet sage



Canopy and Wet



eastern gamagrass
bushy bluestem
inland sea oats
Canada wildrye
switchgrass
sand lovegrass
goldenrod
black-eyed Susan

Canopy and Wet

February 2012



August 2014



Canopy and Wet



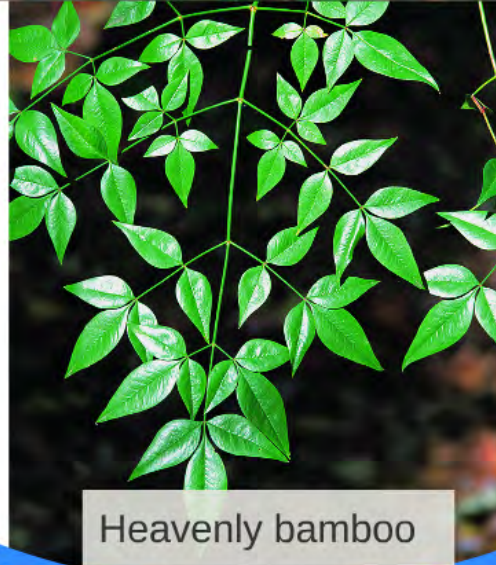
eastern gamagrass
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inland seaoats
Canada wildrye
switchgrass
sand lovegrass
goldenrod
black-eyed Susan

Invasive Species of Concern in Shaded Areas

Broad-leaved privet



Chinese privet



Heavenly bamboo

Resources

- Grow Green Plant guide
- Creekside landscape design template
- 609s seeding and planting Scopes and Standards in City Code
- Wildflower.org (Lady Bird Johnson Wildflower Center)
- Keep Austin Beautiful -Adopt-a-Creek program
- ana.gonzalez@austintexas.gov

Putting back is more important than removing