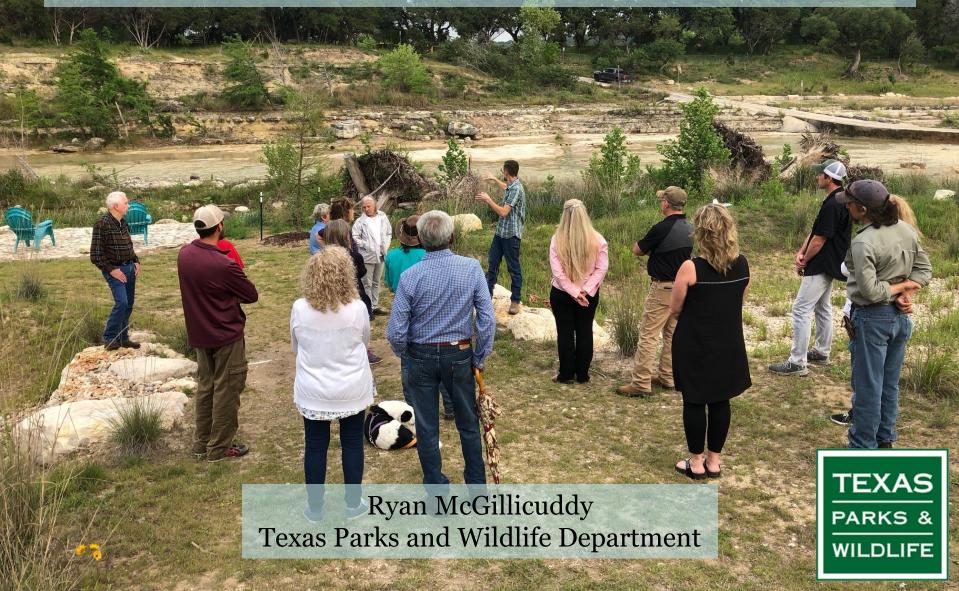
Accommodating Use and Enjoyment with Ecological Function: A Blanco River Restoration Demonstration Site



Blanco River Watershed

Changing demographics and landscape

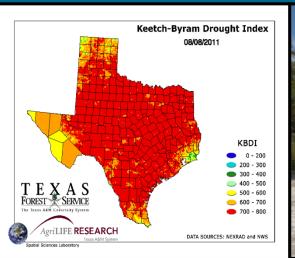
- Area of rapid urbanization and land ownership fragmentation
- Unsustainable ground and surface water use
- Unsound vegetation clearing
- Untenable grazing practices
- Non-native invasive species





Re-establishment of Guadalupe Bass to the Blanco River

- Guadalupe Bass extirpated from the system due to hybridization with non-native Smallmouth Bass
- 2011: Historic drought provided unique opportunity to remove Smallmouth Bass and hybrids from enduring pools above natural fish passage barrier







Re-establishment of Guadalupe Bass to the Blanco River

- 2012-2013: 322,000 pure Guadalupe Bass reared by TPWD stocked
- 2014 Present: Monitoring revealed sustained presence of wild, naturally-produced Guadalupe Bass



Blanco River Watershed Restoration

- SARP grant to TPWD in 2015 leveraged with state invasive species funds
 - Implement on-the-ground restoration projects and provide technical guidance to landowners to encourage conservation BMP's
 - Address issues and threats that degrade water quality, reduce water quantity, degrade riparian areas, and favor exotic species



Blanco River Watershed Restoration

- Historic flood in May 2015 brought intense public interest in riparian restoration
 - River crested at more than 40 feet above its banks
 - Estimated 12,000 riparian trees uprooted







Blanco River Restoration Design Guidelines

- Developed in partnership with the Lady Bird Johnson Wildflower Center
- Encourage land management practices that accommodate recreational uses while also providing ecological functions

http://tpwd.texas.gov/publications/nonpwdpubs/media/blanco_river_design_guidelines_2016.pdf



residential display garden
flagstone paving with planted joints

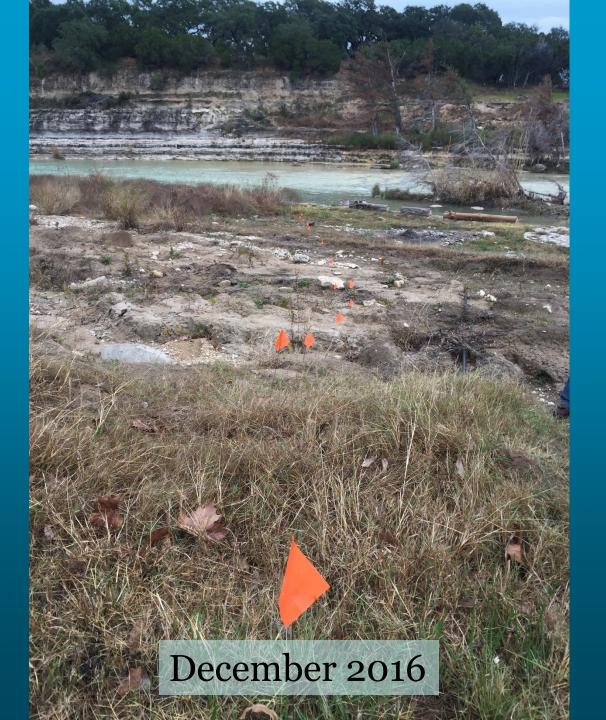


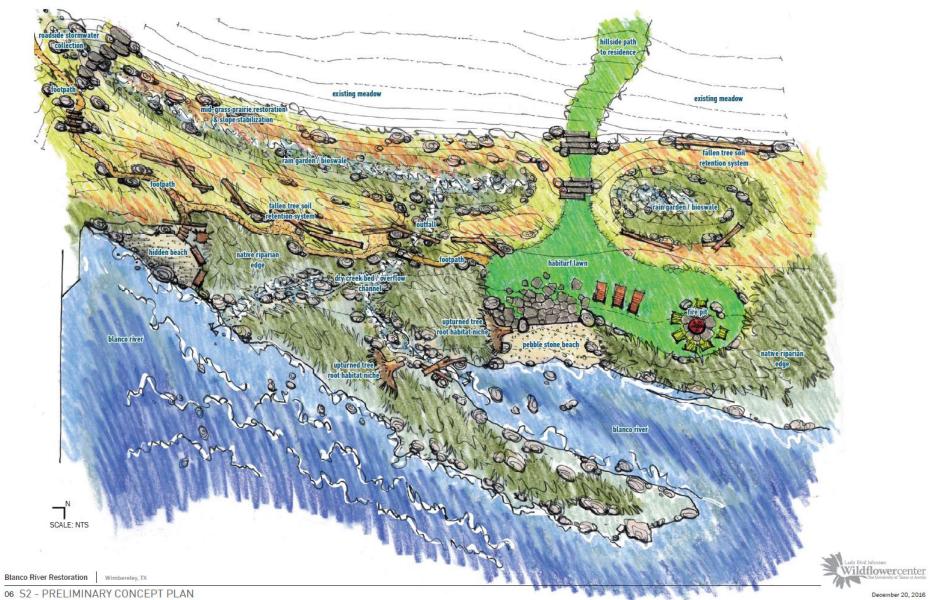






August 2015







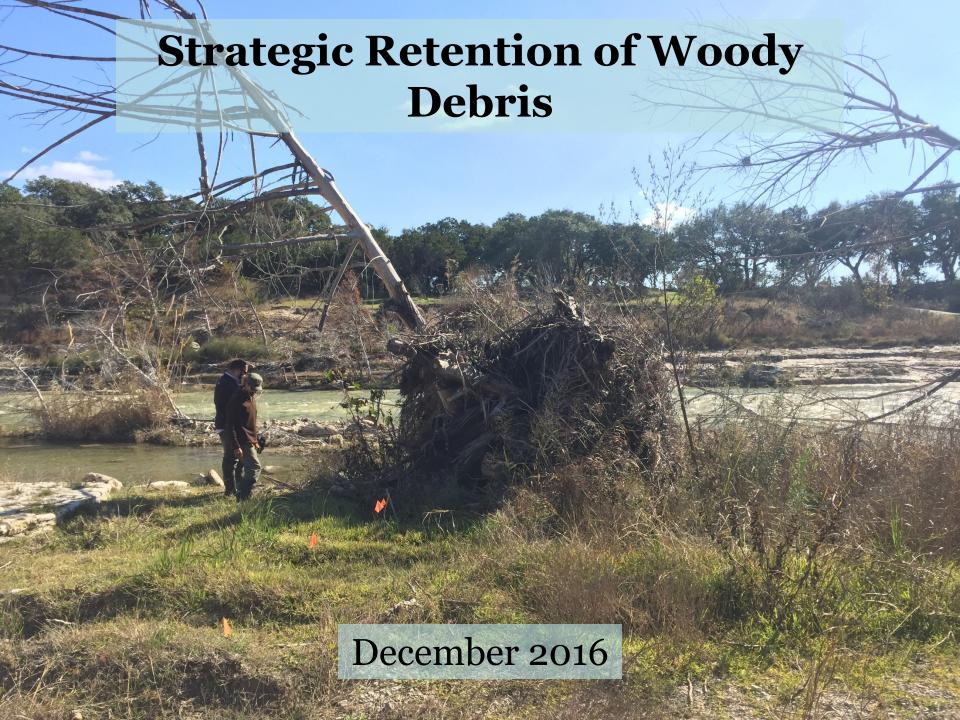
Establishment of "Grow Zone" and targeted access points





























<u>Plugged live roots</u>:

- Lindheimer muhly (Muhlenbergia lindheimeri)
- Florida paspalum (Paspalum floridanum)
- Big bluestem (*Andropogon gerardii*)
- Nimblewill (Muhlenbergia schreberi)
- Switchgrass (Panicum virgatum)

<u>Seed mixes</u> (Native American Seed, Junction TX):

- Drainfield Mix
- Dam Slope mix
- Pollinator Essentials Mix
- Wetland Fringe Mix
- Thunder turf
- Sideoats grama







August 2017



May 2018

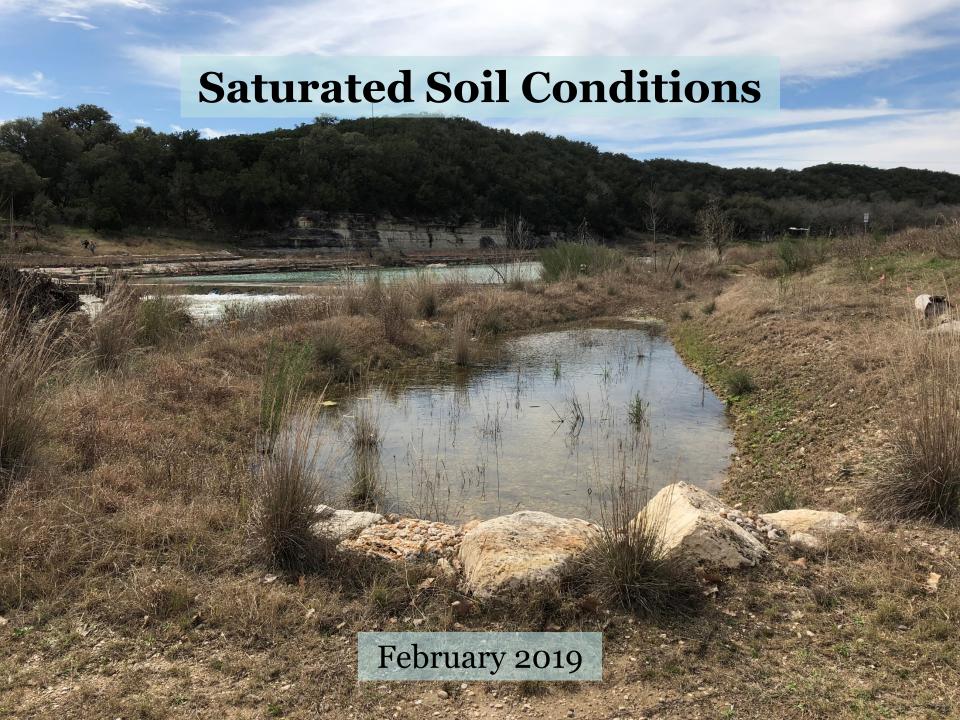






May 2018







May 2018



