

Meeting the Water Needs for Texans and Wildlife



Jim Cathey,
Extension Wildlife Specialist

THE TEXAS
STOCKMAN AND FARMER

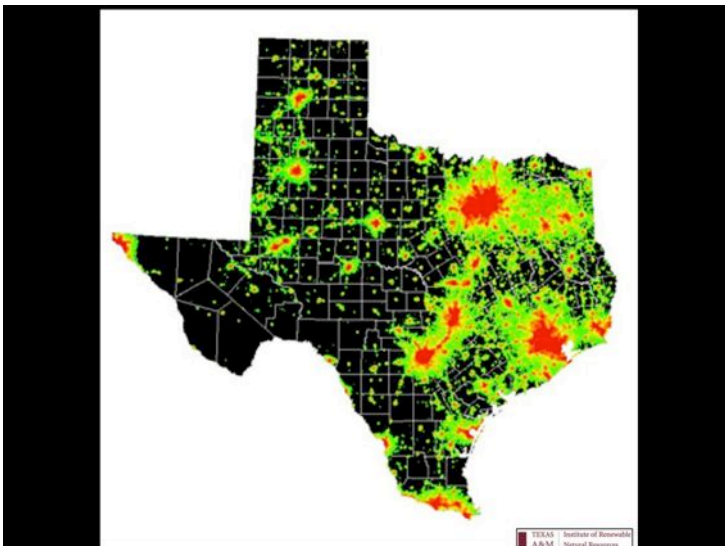
Some Splendid Colonization Propositions

	Per Acre	Per Year.
43,719 acres in McMullen County	\$ 7.00	
66,312 acres in LaSalle County	6.00	
10,000 acres nice land Chambers county	20.00	
14,000 acres good land Kinney county	4.50	
27,000 acres in Frio county	10.00	

Much of above properties river front and on railroad, in best belt of Southwest Texas. Also have some fine small farms.

Leona Land Company,
UVALDE, TEXAS.



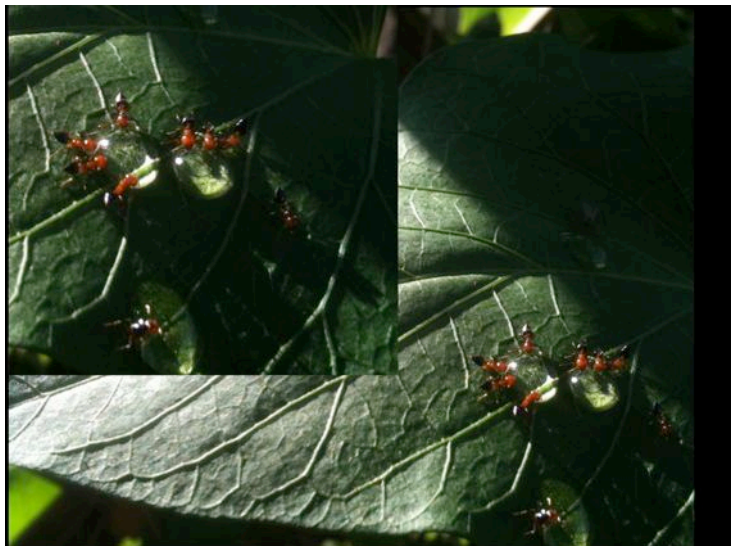
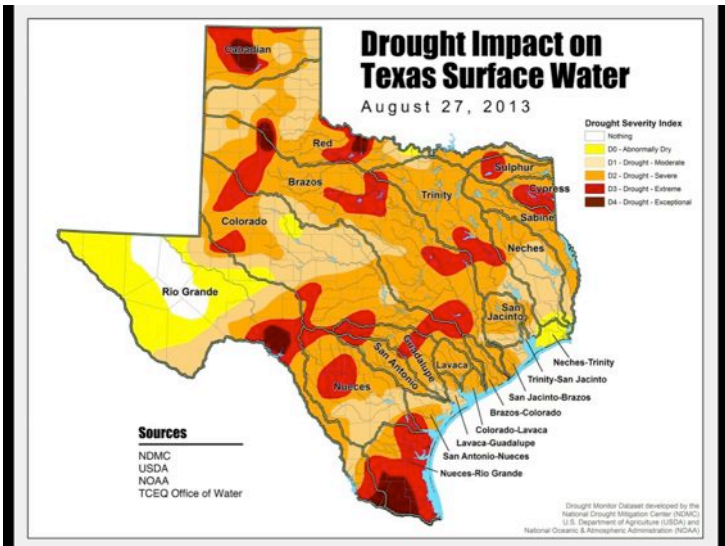
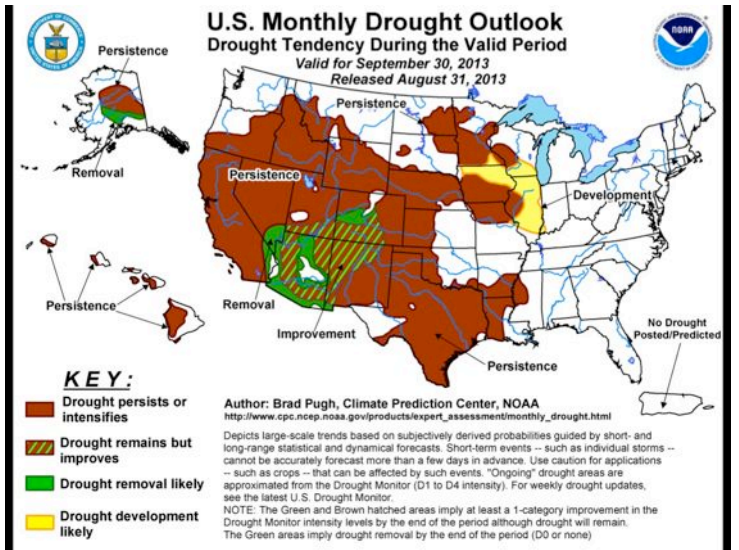
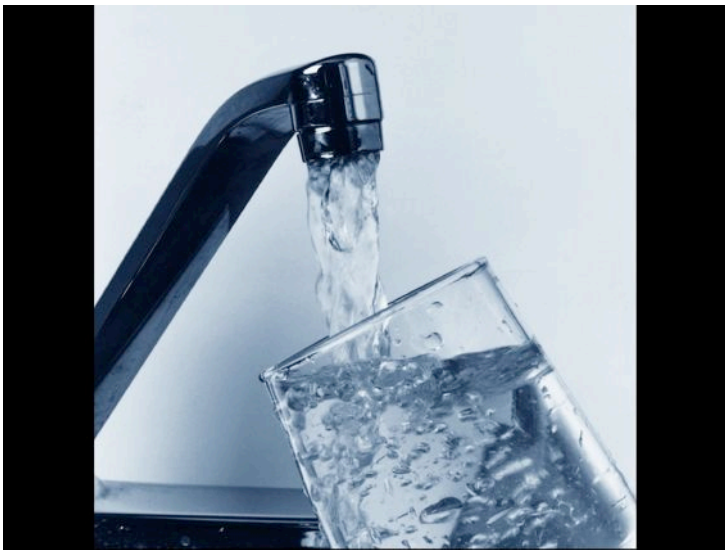
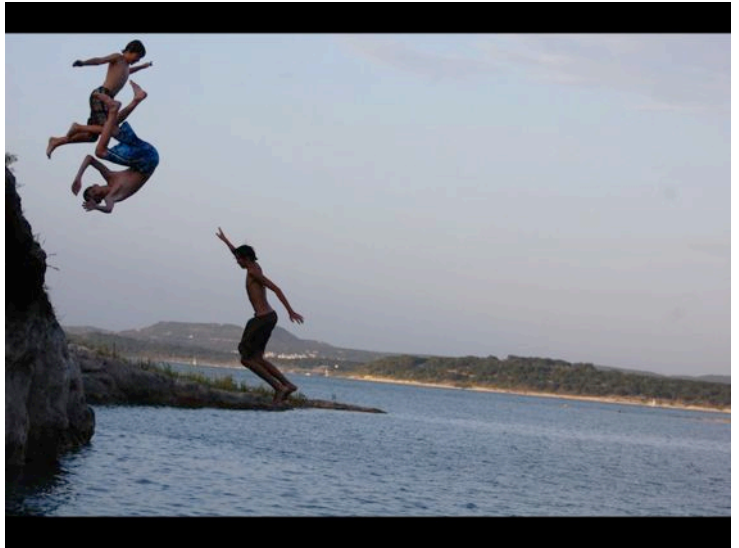
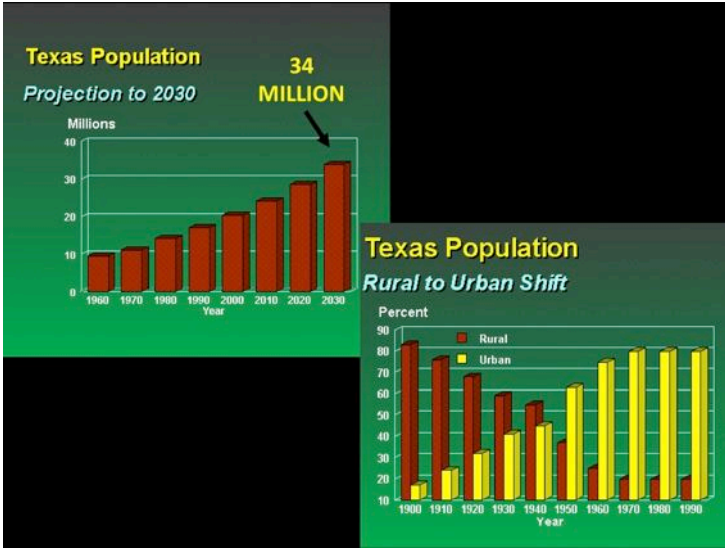


Show Me the Water!

The primary message of the 2012 State Water Plan is a simple one:

- In serious drought conditions, Texas **does not and will not** have enough water to meet the needs of its people, its businesses, and its agricultural enterprises.





Quiz: Which is the only natural reservoir in Texas

- A. Somerville
- B. Toledo Bend
- C. Livingston
- D. Caddo



Bonus question:

Which reservoir is in the Trinity River Basin?



Quiz: Which of the following are ecosystem services

- A. Clean air
- B. Clean water
- C. Outdoor recreation
- D. All of the above



Quiz: Which Landscape is Better Prepared to Capture Rainfall?

• A

• B



- Dedicated to
 - Improving the quality of life
 - Economic sustainability
 - Ecological integrity
- Within the Trinity River Basin

Support of 30 conservation organizations



Connecting People with the Trinity River



- Promote land stewardship practices
 - Improve ag production
 - Increase wildlife populations
 - Greater recreational opportunities
- Improve water resources
 - Allow for land-water interactions
 - Reduce pollutants

Developing Resources



- Web-presence
 - Social Media
 - Videos
- Land Mapping
 - TRIMS
- Publications
- Outreach Programs
 - Youth
 - Adult



Delivering Information to Landowners and the Public

- Social Media



Facebook



Twitter



Scoop.it!



WFSC AgriLife



Wild Wonderings
Blog



Photos



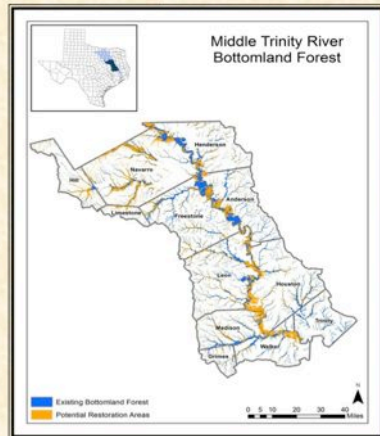
Trinity River Information Management System

(TRIMS)

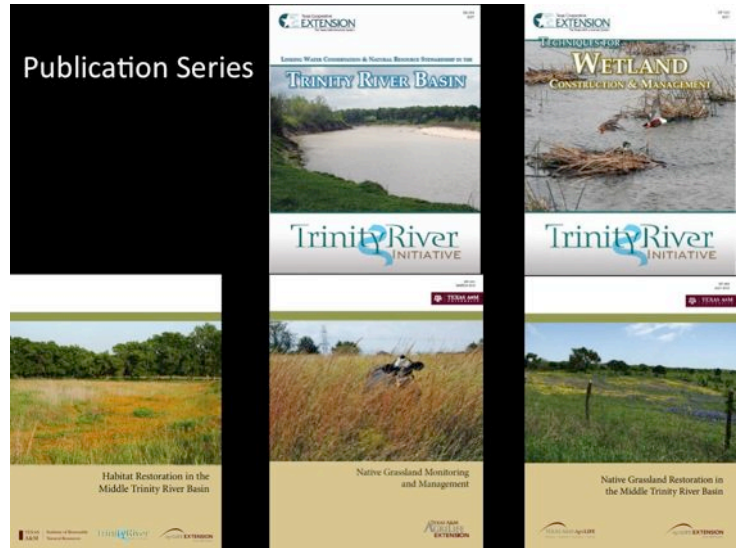
TEXAS A&M Institute of Renewable Natural Resources

- Accessible
- Interactive
- Watershed scale (local to regional)
- Soils, vegetation, elevation, stream data
- Restoration potential

trims.tamu.edu

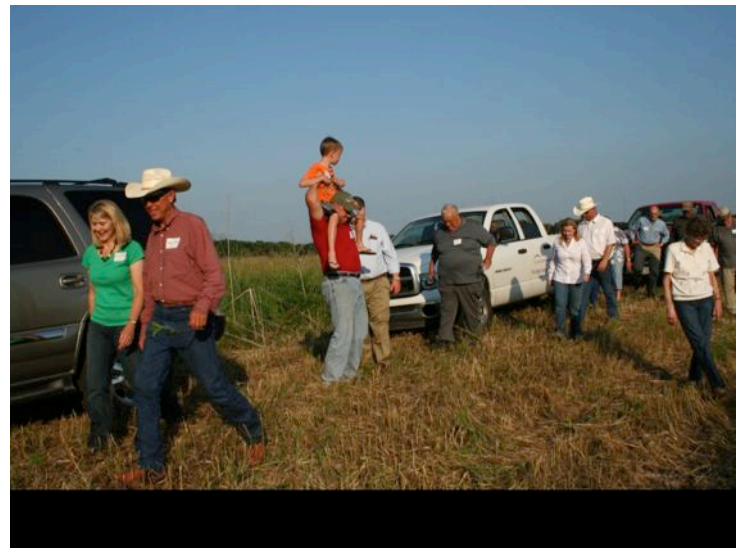


Publication Series



Delivering Information to Landowners and the Public

- Youth Education
 - Learning Across New Dimensions in Science (L.A.N.D.S.)
 - Wide assortment of teachers and natural resource partners
 - Outdoor classrooms to teach students the value of natural resource conservation



Best Management Practices

- Grazing
- Prairies
- Wetlands



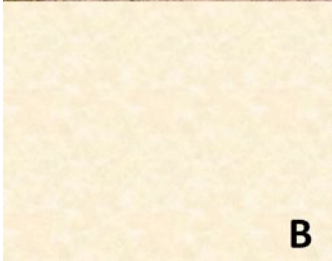
Livestock Compatibility with Wildlife

- Know how much forage is in the pasture
- Low to moderate stocking density
- Good cross-fencing and water distribution

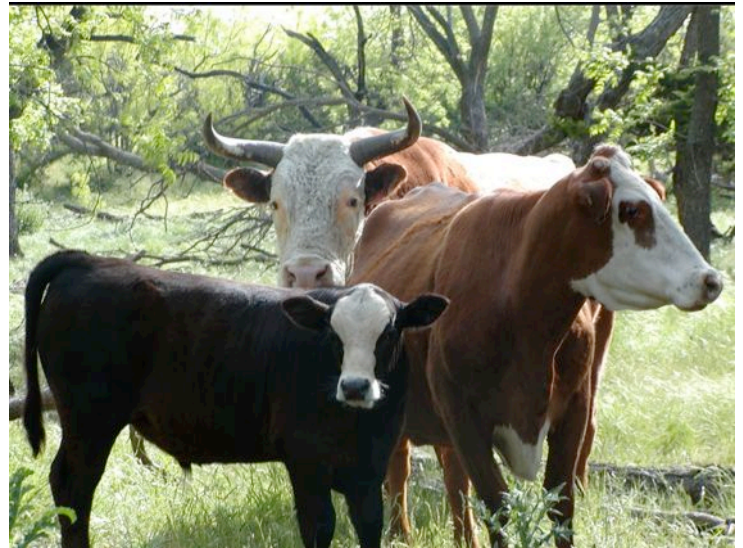




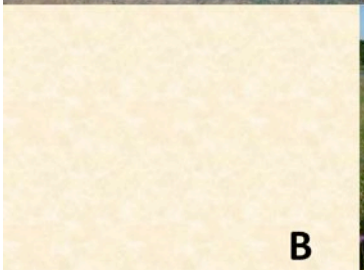
A Quiz: Which pasture will yield more pounds of forage?



B

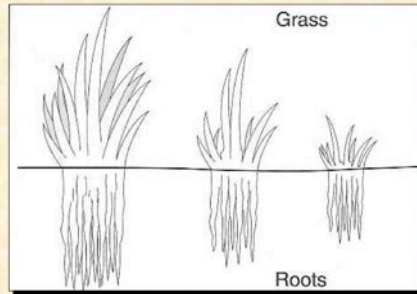


A Quiz: Which pasture is prepared to capture and hold rainfall?

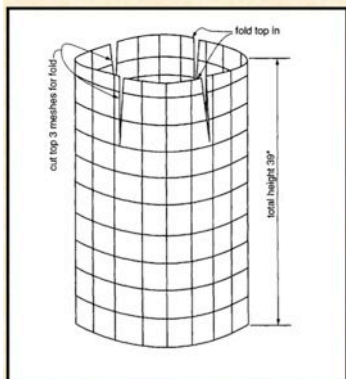


B

Take Half / Leave Half Really means take only 25%



Visualizing Forage Use



Land Use Effects on Water

Bunchgrasses

Sodgrasses



- | | |
|--------------------------------|---------------------------------|
| • Surface runoff = 24% | • Surface runoff = 45% |
| • Infiltration = 75% | • Infiltration = 54% |
| • Low input costs | • Higher input cost fertilizers |
| • Wildlife and livestock value | • Livestock value |



Conservation Example



A Strategic Approach to Bobwhite Recovery in the Western Trinity River Basin



Jay Whiteside
 Technical Guidance Biologist
 Texas Parks and Wildlife Department



Nesting Cover Recommendations

- Target = ~ 400 suitable nest clumps/acre
 - Suitable nesting sites
 - bunch grasses; size of a basketball
 - prickly pear; size of a hula hoop



Wildlife Management Associations

- Landowners working together under guidance of a biologist
- Large area under similar management strategy
- Lessens the effect of fragmentation
- 10 in middle basin for 95,000 acres



Prairie Restoration– Tools of the Trade



Prescribed Fire Portal

Prescribed Burn Alliance of Texas

Home Associations Partners Resources Training Contact Login



News

There are no items to display.

[View all News](#)

Upcoming Events

There are no items to display.

[View all Events](#)

Portal Framework

The Prescribed Fire Management (PFM) Portal provides convenient access to information and resources on general concepts and applications of prescribed fire management. Portal users (students, landowners, land managers, extension agents, and contractors) will be acquainted with prescribed fire best-management practices to achieve desirable land management goals.

Subscribe

Receive email alerts from PBAT leadership.

First Name

Last Name

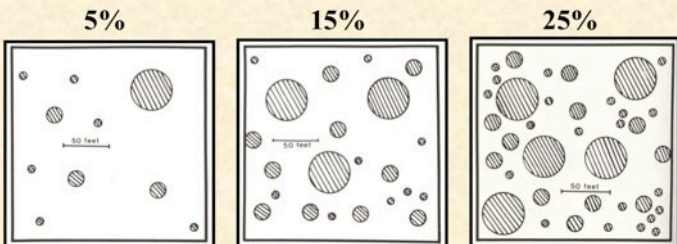
Email

Preferred Association

--Select an Association--

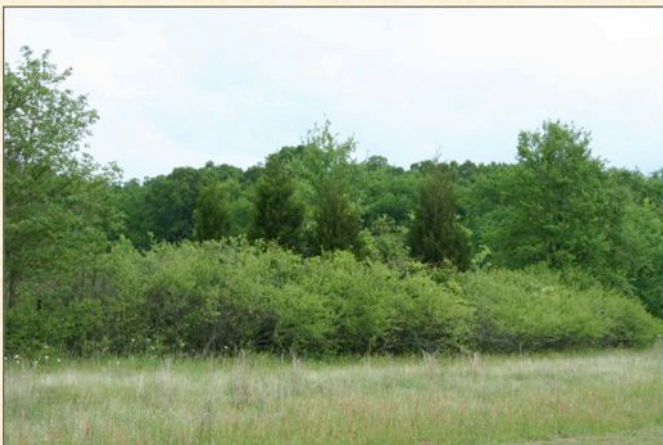
Managing Loafing and Escape Cover

- Strive for good distribution
 - A soft ball's throw to nearest cover
- 5% - 25% brushy cover



Loafing Cover Examples

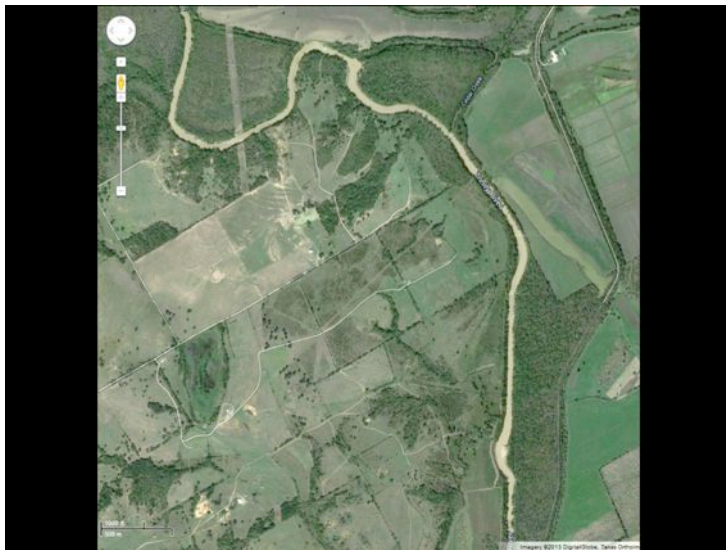
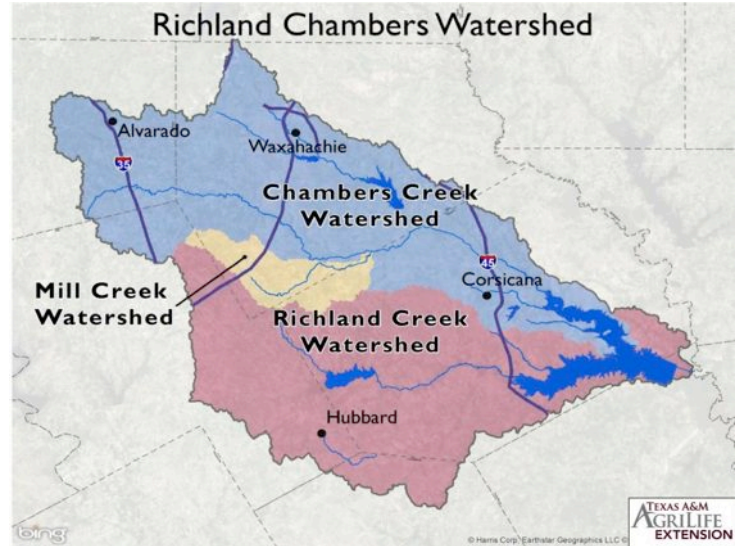
- fence rows, field corners, windbreaks



Conservation Example

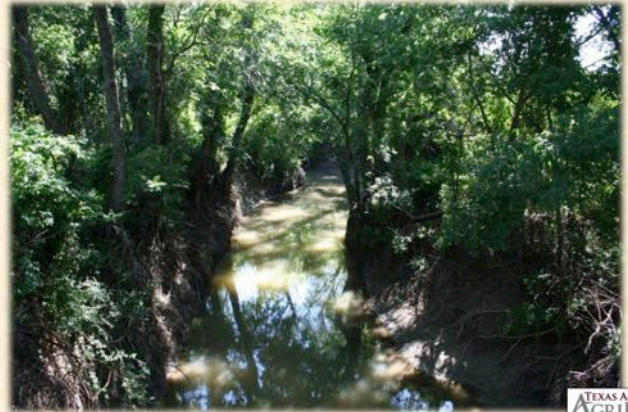
Chambers Creek Water Quality Initiative

- Joint project (2012) with NRCS and local SWCDs
- \$8.5 million invested with landowners
- to carry out conservation practices that benefit water quality and soil health
- And thirsty Texans in Urban and Rural areas



Land Use Effects on Water

- Roots anchor soil and reduce flood damage



Land Use Effects on Water

- Maintain vegetation in riparian areas
 - Reduces erosion, benefits water and wildlife



Land Use Effects on Water

- Riparian soils can hold more water and greater forage production can be periodically grazed



Conservation Example Wetlands for Water Treatment

- Richland Creek WMA
 - TPWD and Tarrant Regional WD
 - 1,730 acres, 109 MGD
- John Bunker Sands Wetlands Center
 - North TX Municipal WD
 - 2,100 acres
 - 102,000 acre/ft per year
- Rural-urban connection



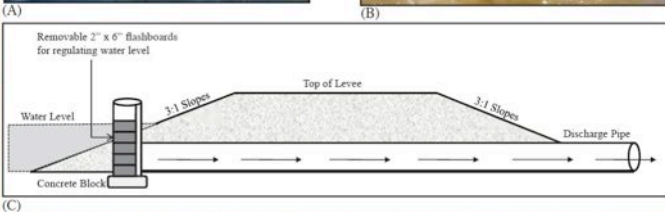
TEXAS A&M
AGRI LIFE
EXTENSION

Location and Land Survey

- Evaluate topography
 - Contours of 1 ft accuracy are important
 - Contact NRCS, land surveyor or engineering personnel



Flashboard Risers



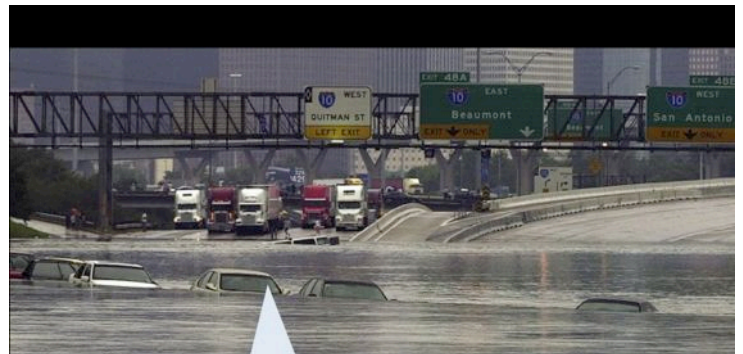
Plant Diversity is Important



We need
more
wetlands!



We need
more
wetlands!





Funding by

