

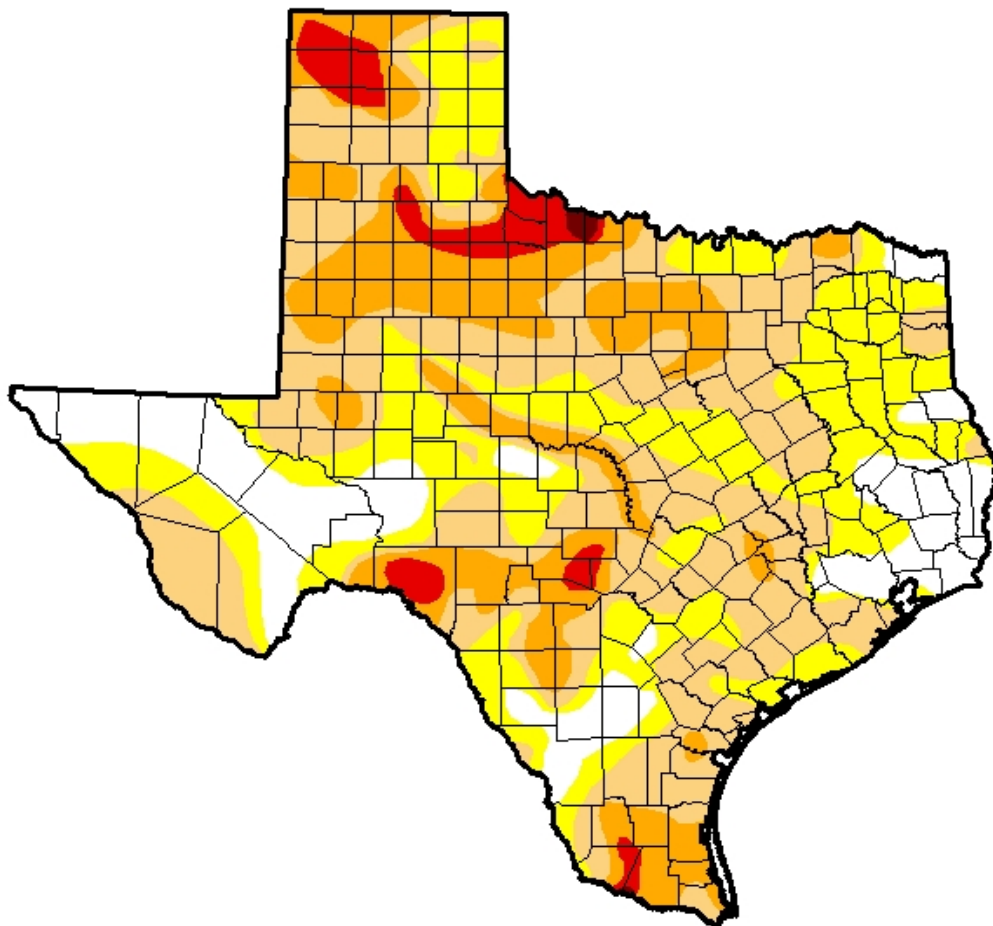


***Ain't I drunk you before?***  
**Re-Use During Drought  
in Texas**

**Erika Mancha**  
**Texas Water Development Board**  
*presented at*  
**Direct Potable Reuse, Newport Beach**  
**November 8, 2013**

# U.S. Drought Monitor Texas

**October 29, 2013**  
(Released Thursday, Oct. 31, 2013)  
Valid 7 a.m. EDT



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	14.17	85.83	58.51	22.40	4.26	0.23
<b>Last Week</b> <i>10/22/2013</i>	13.16	86.84	62.03	22.76	4.19	0.23
<b>3 Months Ago</b> <i>7/30/2013</i>	2.83	97.17	87.69	65.36	25.97	5.65
<b>Start of Calendar Year</b> <i>1/1/2013</i>	3.04	96.96	87.00	65.39	35.03	11.96
<b>Start of Water Year</b> <i>10/1/2013</i>	6.62	93.38	70.95	25.08	4.01	0.12
<b>One Year Ago</b> <i>10/30/2012</i>	15.36	84.64	57.86	31.61	16.23	3.67

Intensity:

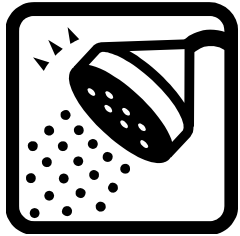
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

*The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.*

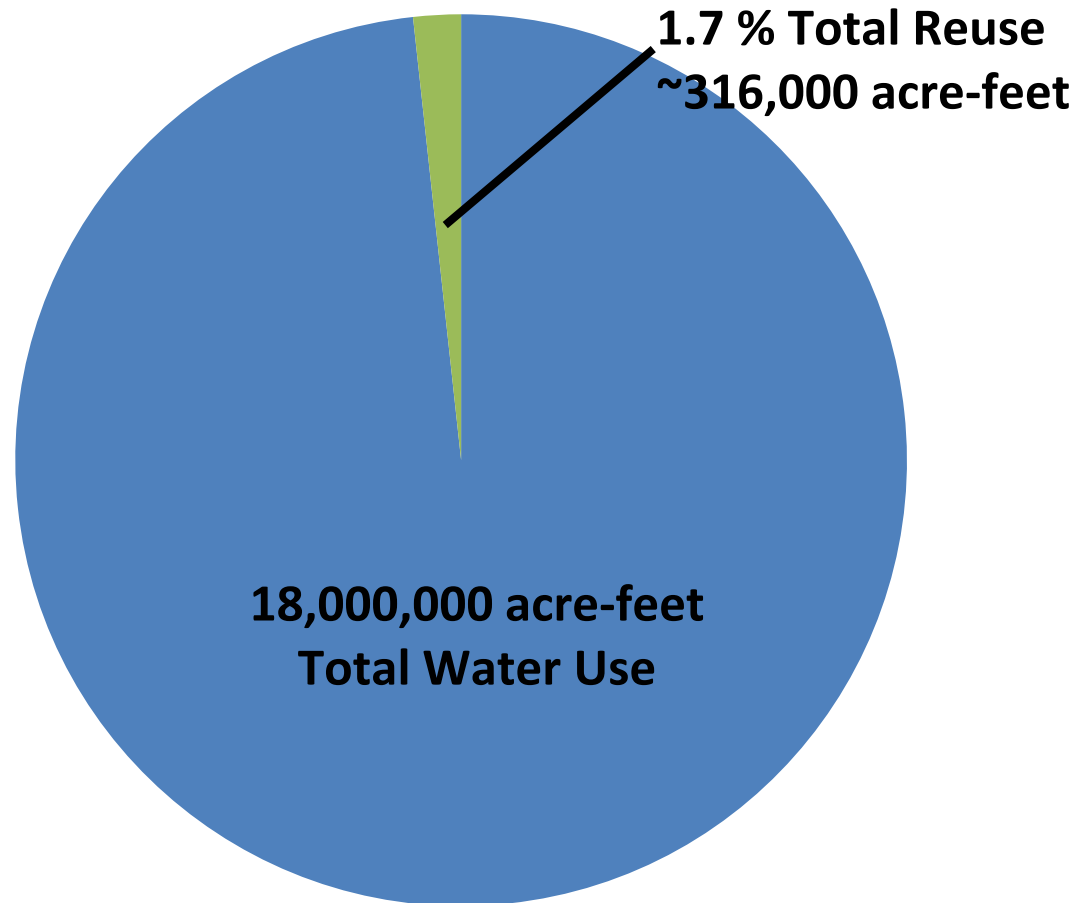
**Author:**  
*Brian Fuchs*  
National Drought Mitigation Center



<http://droughtmonitor.unl.edu/>



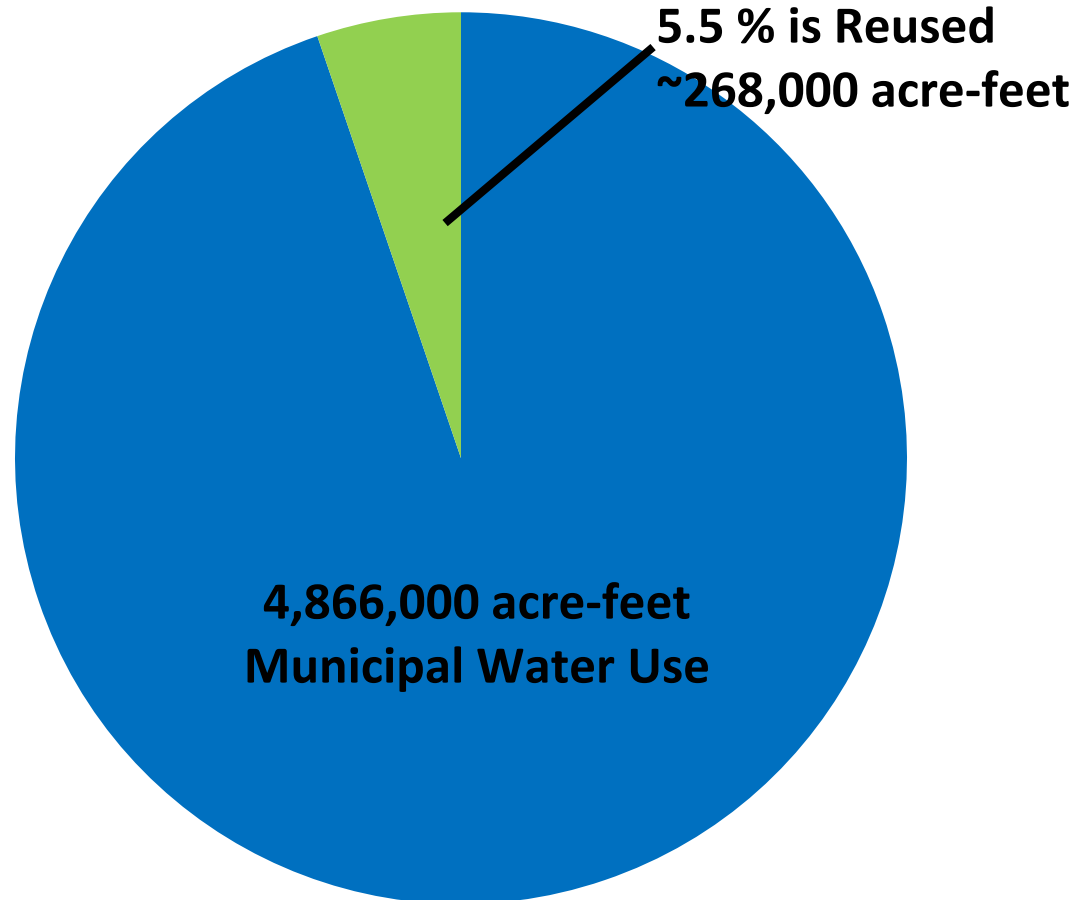
# Actual Water Usage



Data from 2011 Water Survey



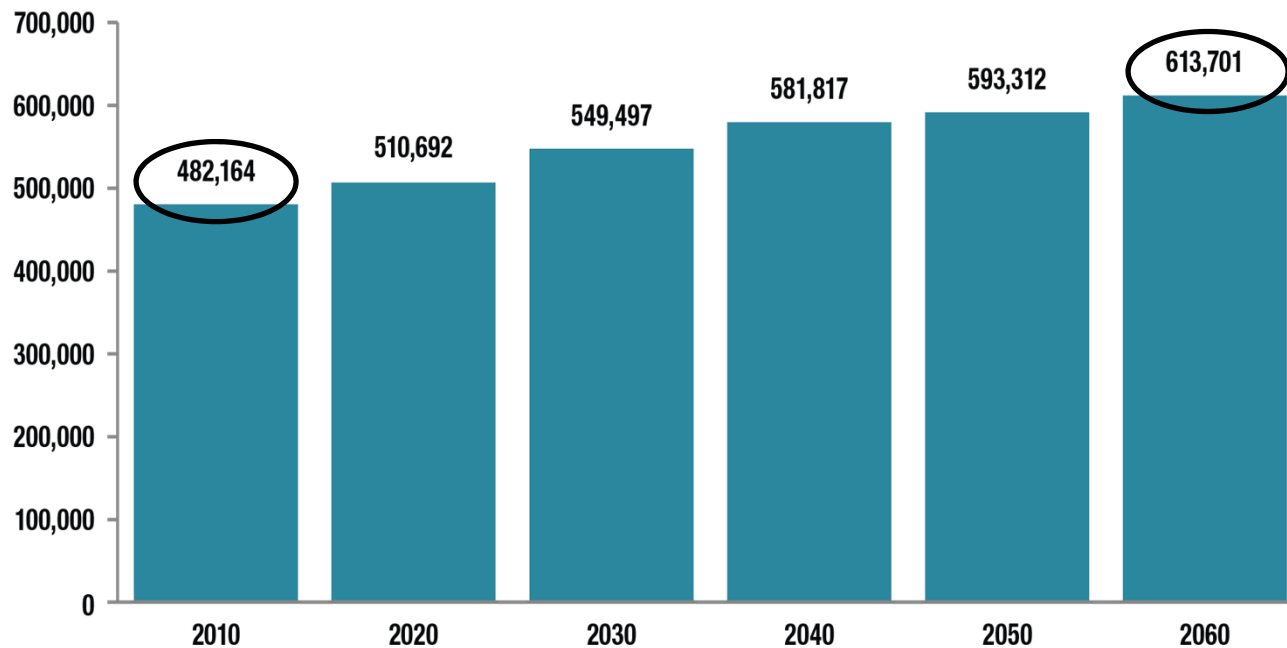
# Actual Water Usage



Data from 2011 Water Survey

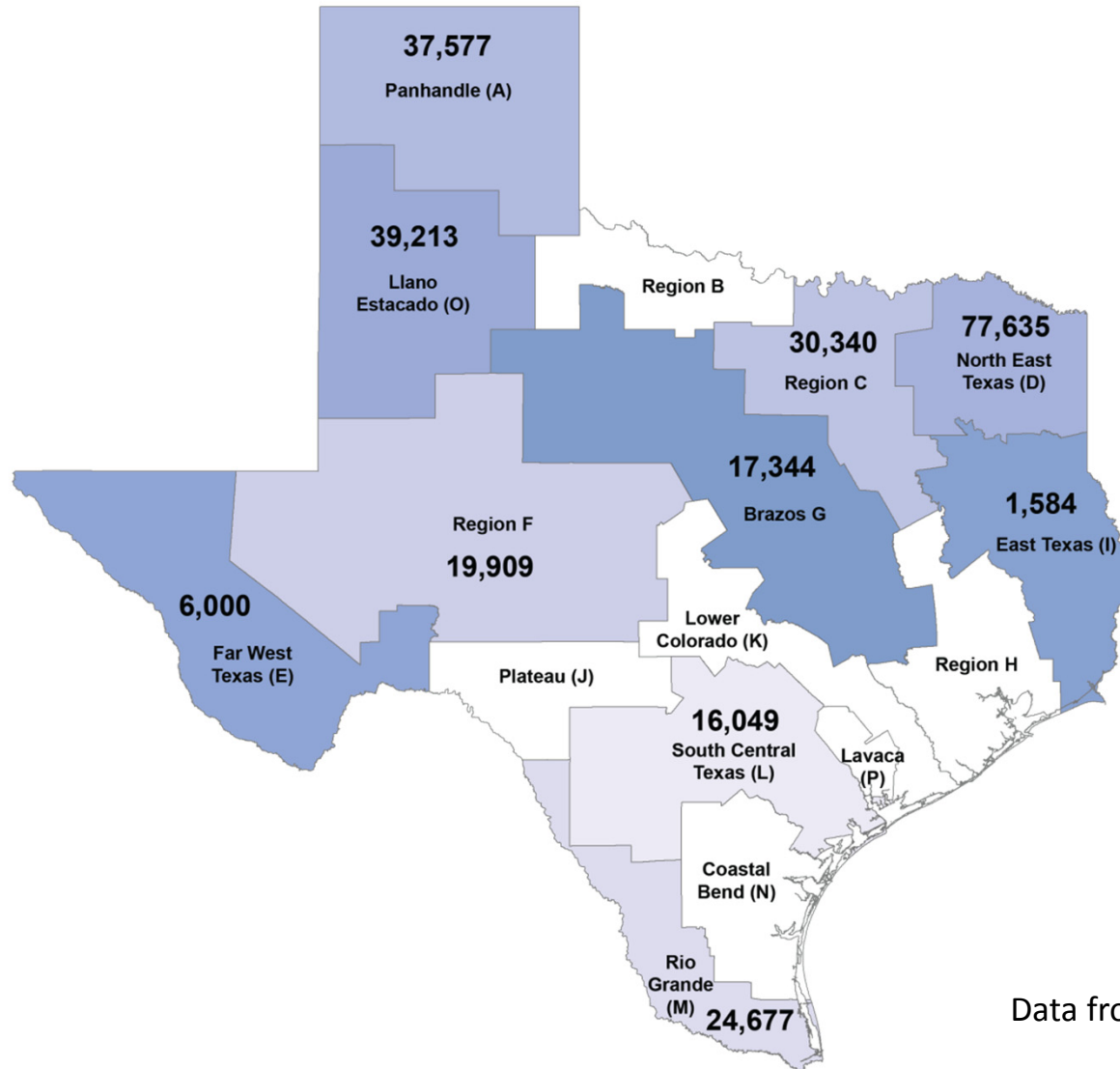
# Current (and future) Re-Use

- Projected Existing water supplies in 2010
  - ~280,000 acre-feet of direct re-use
  - ~202,000 acre-feet of indirect re-use



Data from the 2012 State Water Plan

# Existing Direct Reuse Supplies through 2060 by Region (acre-feet per year)

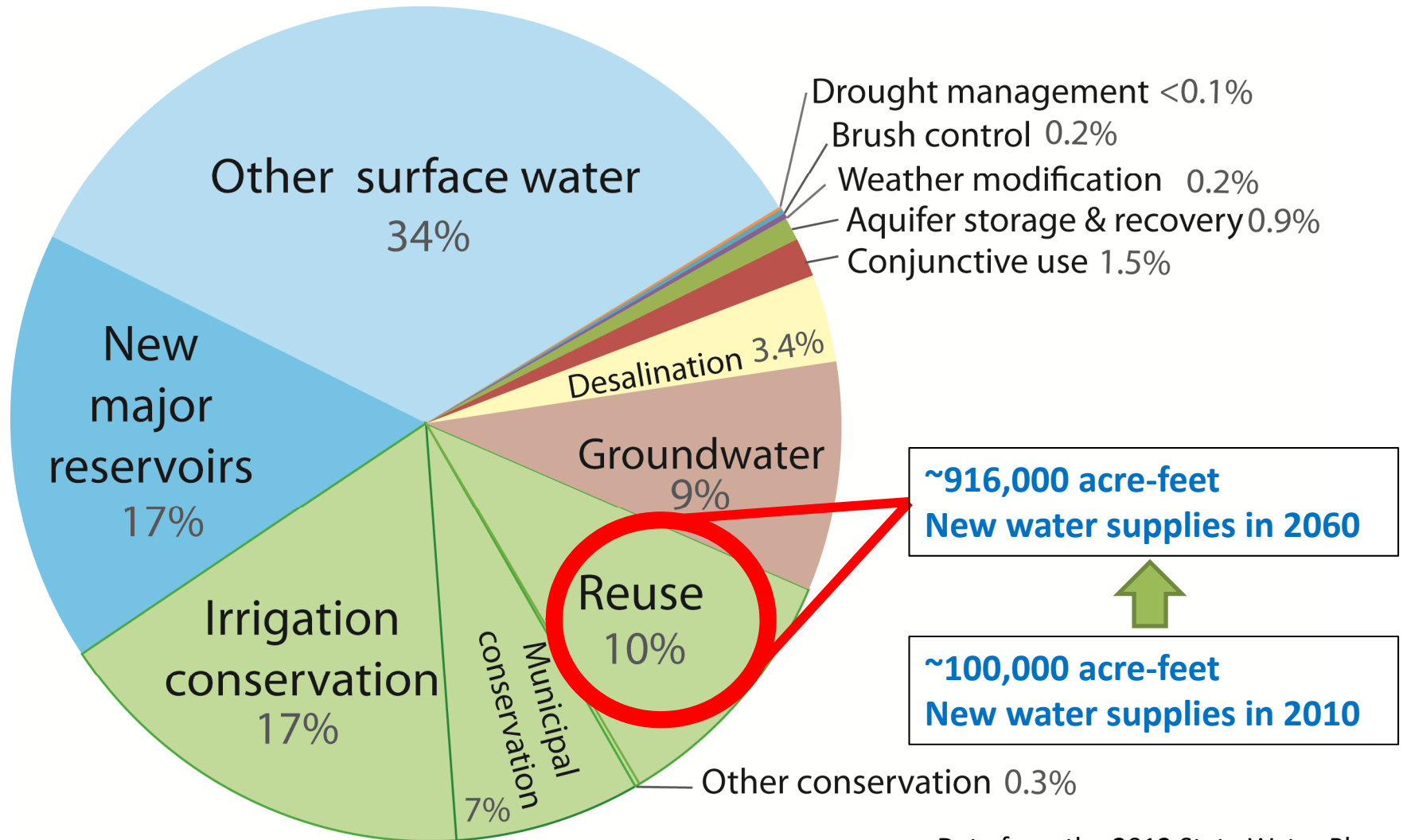


Data from the 2012 State Water Plan



# What will Texas do for more water?

## Water Management Strategies for 2060



Data from the 2012 State Water Plan

# Upcoming Research Studies



- Testing Water Quality at the Raw Water Production Facility in Big Spring, Texas
  - Quarterly sampling for Chemicals of Emerging Concern and microbial pathogens
  - Develop correlations for surrogates compounds
  - Develop Monitoring Guidance for Direct Potable Reuse
  - Goal to demonstrate water reuse is safe
    - Treatment is effective, consistent, and accurate





# Proposition 6



- November 5 Election - Voters Approved
- Creates two new funds
  - State Water Implementation Fund for Texas (SWIFT)
  - State Water Implementation Revenue Fund for Texas (SWIRFT)
- \$2 Billion from the Rainy Day Fund to the SWIFT
- 20 % of SWIFT financial assistance is for water conservation and reuse projects.
  - To implement reuse projects more infrastructure is required

# Texas Water Development Board

[www.twdb.texas.gov](http://www.twdb.texas.gov)

## Innovative Water Technologies

[www.twdb.texas.gov/innovativewater/reuse](http://www.twdb.texas.gov/innovativewater/reuse)



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