



Water Conservation: 2012 State Water Plan and Requirements For Retail Water Suppliers

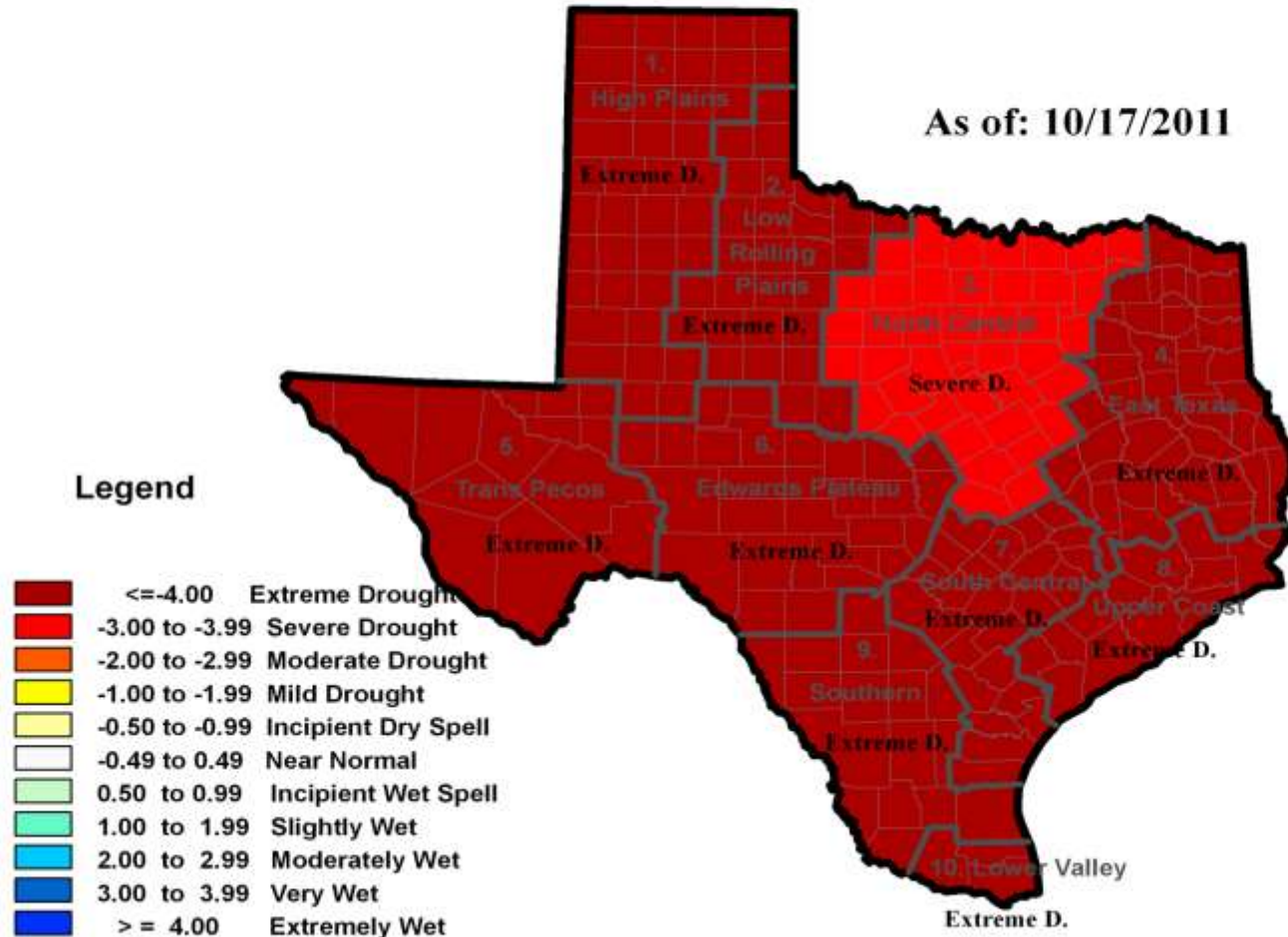
Brazos Valley Water Conservation Symposium

Waco, Texas

June 21, 2012

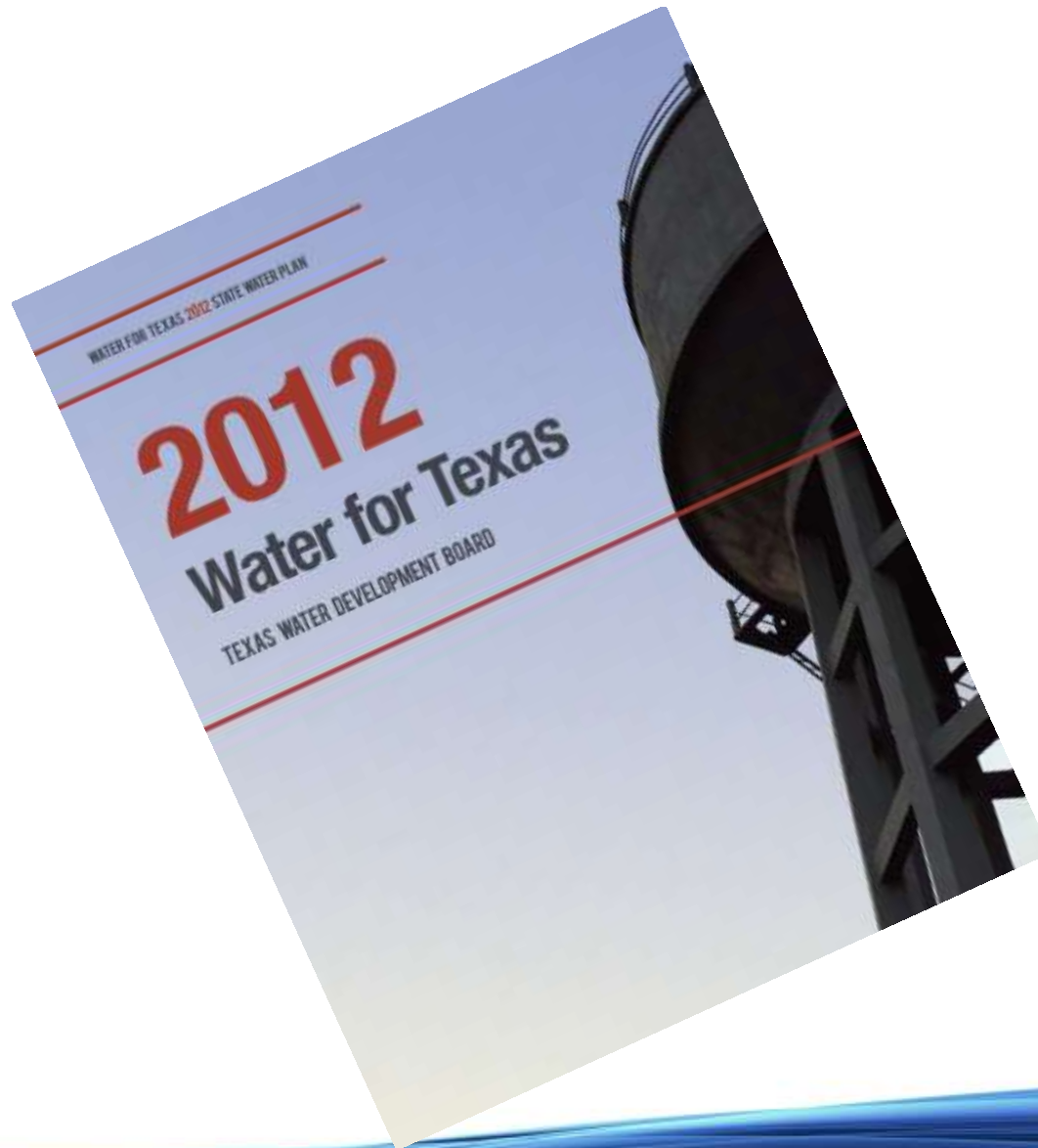
Palmer Drought Severity Index (PDSI)

As of: 10/17/2011



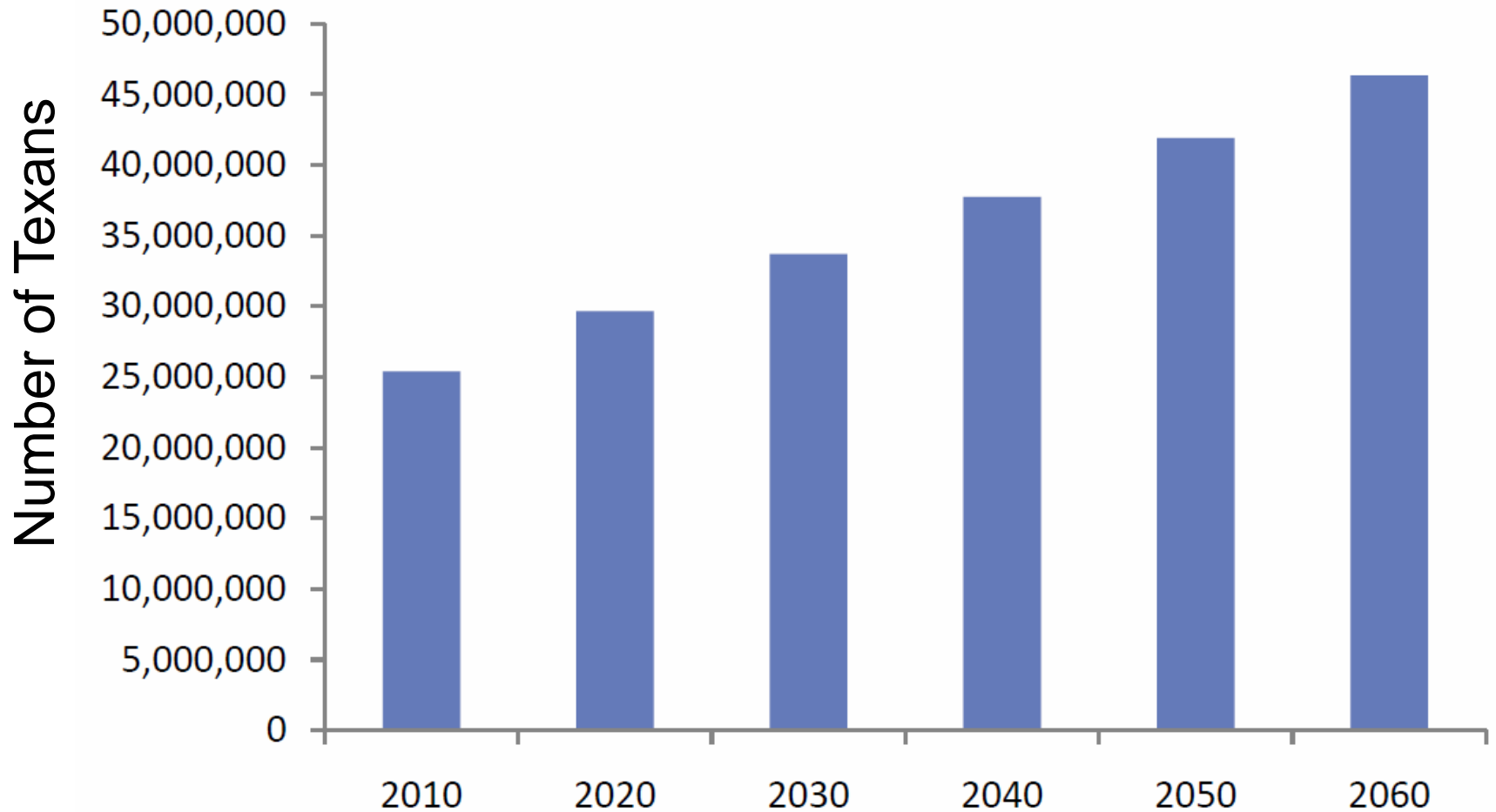
Data courtesy of Climate Prediction Center, NCEP - NWS - NOAA. Graphic created by TWDB.

2012 State Water Plan





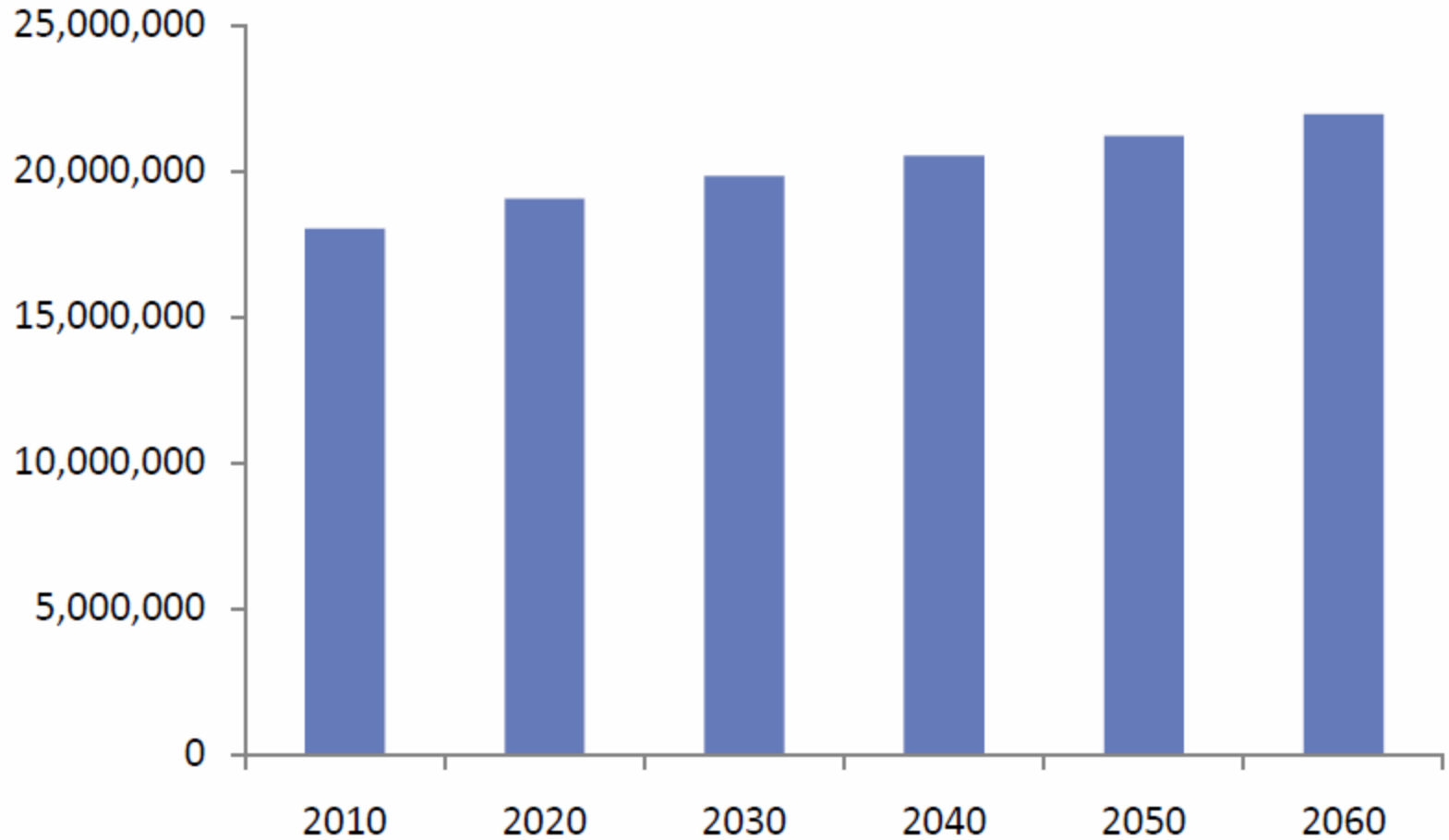
There will be more Texans...



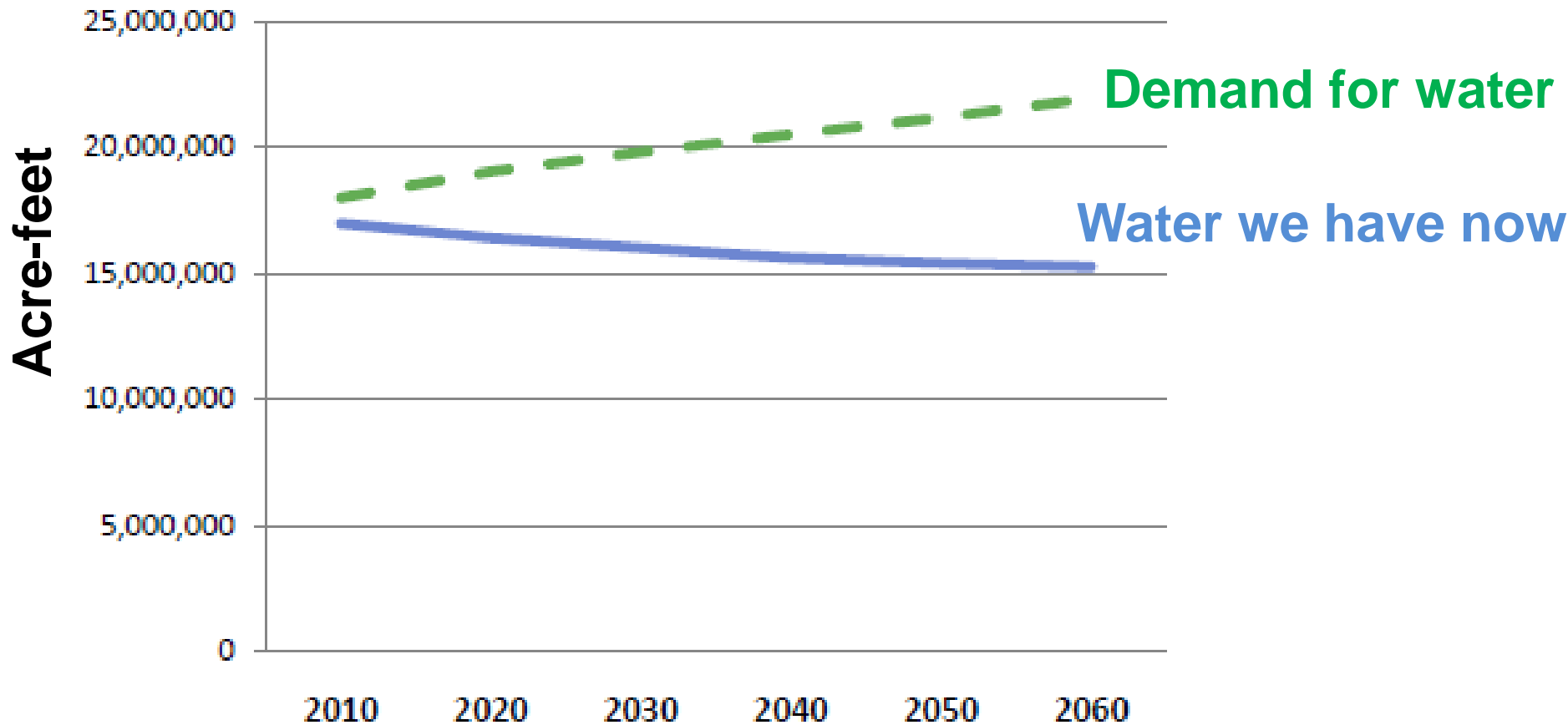


And they will be thirsty...

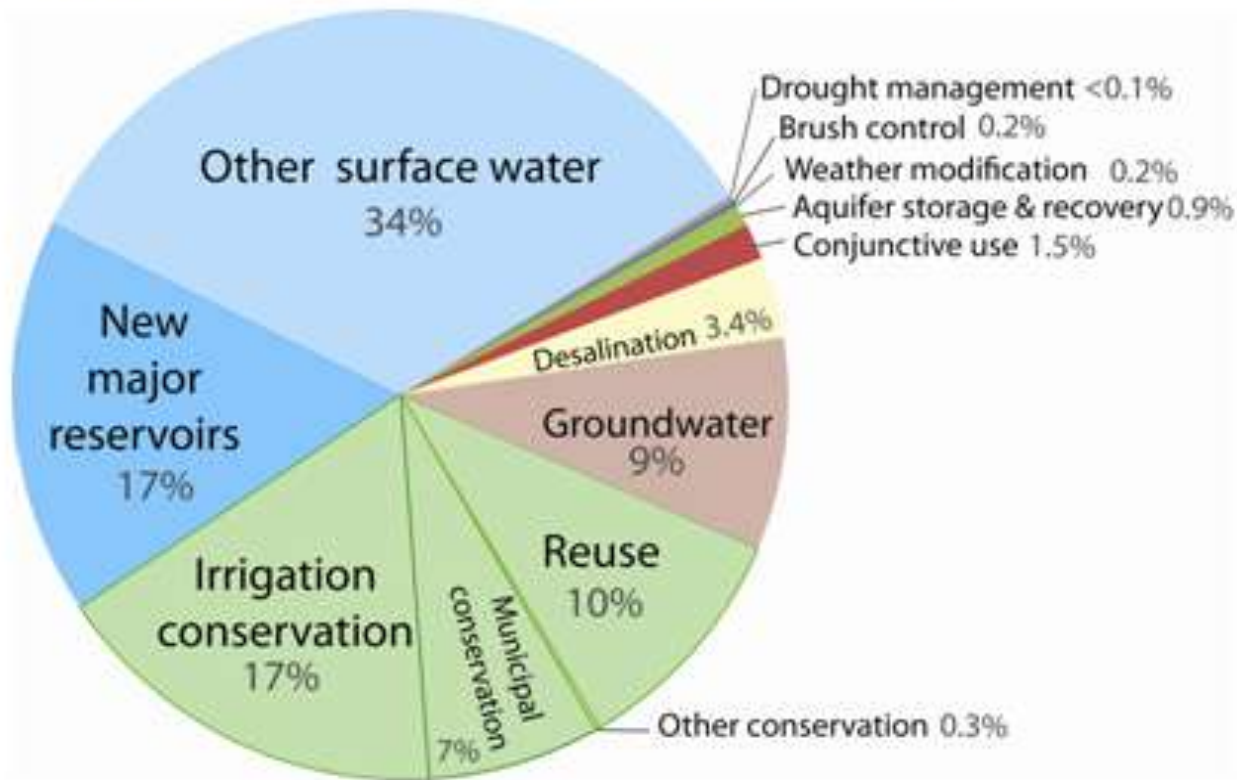
acre-feet of water demand



Supply vs. Demand



Opportunity: Conservation




data from the 2012 State Water Plan

2012 State Water Plan Numbers

Conservation is 24 percent of strategies in 2060

- 647,000 acre-feet in municipal conservation
- 1,505,000 acre-feet in agricultural conservation
- 23,000 acre-feet in other (industrial, power generation)
- does not include “built-in” conservation due to state and federal plumbing requirements (estimated at 1 million acre-feet per year)

2011 Regional Water Plan Numbers

- 14 of the 16 regional water plans had conservation strategies
 - 834 municipal and domestic water user groups have an identified water conservation strategy
 - A total of 103 counties have an agricultural water conservation strategy
 - 30 counties have an “other” water conservation strategy
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Requirements For Retail Water Suppliers



Brazos G RWPG Conservation

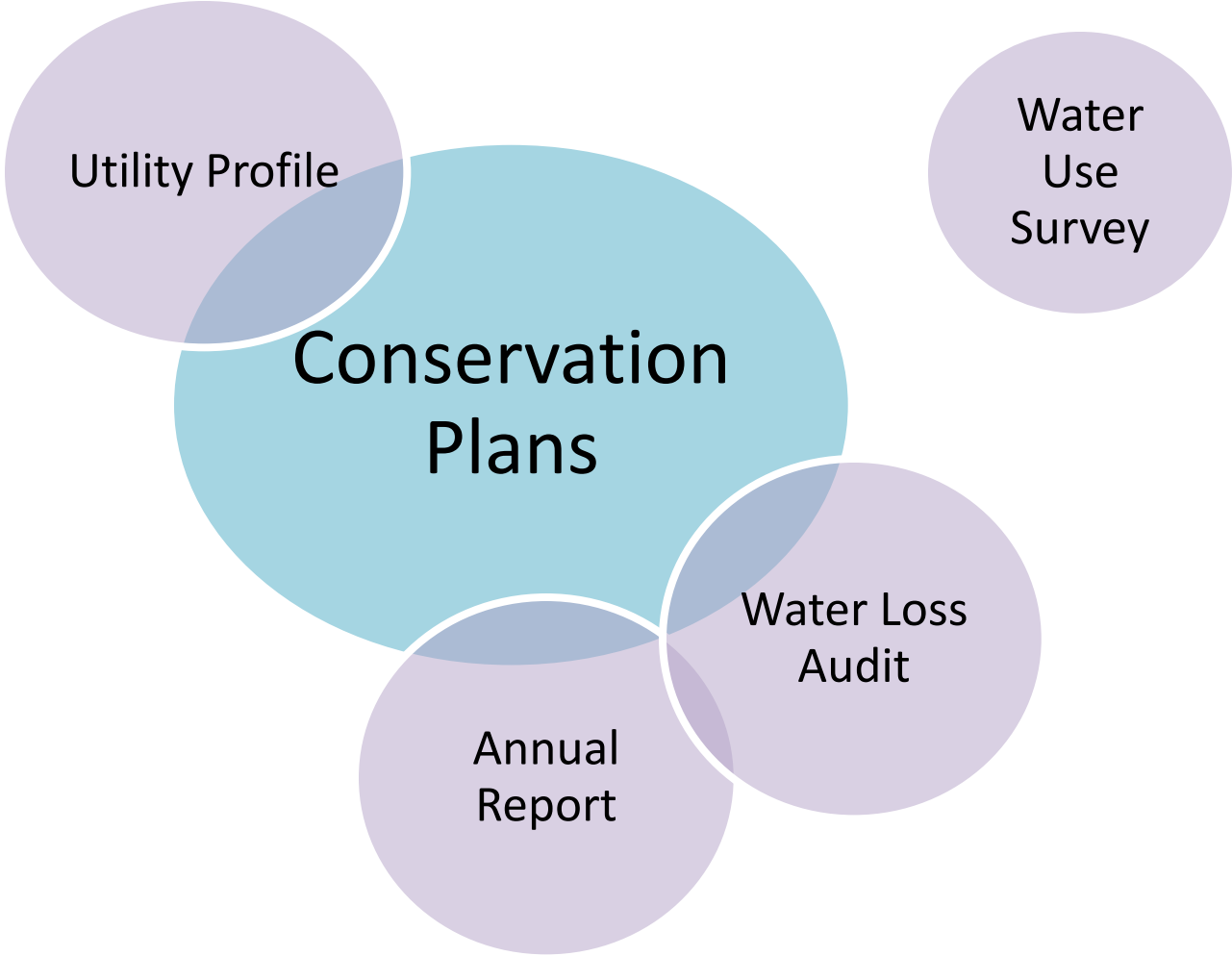
- Brazos G encourages all entities to conserve water
- Conservation is a recommended strategy for 39 municipal WUGs
- Each entity should choose their best fit measures



Brazos G Examples

- *Conservation BMP Savings*
- Advanced Conservation- 7 gpcd
- Landscape Irrigation- 11 gpcd
- Public Education Programs- 3 gpcd
- **Total-21 gpcd**

- Example: City G
- Conservation strategies in Ac-Ft for 2010-2060
274 1,049 1,185 1,371 1,680 2,012



Utility Profile

Water
Use
Survey

Conservation
Plans

Water Loss
Audit


Annual
Report



Required Water Conservation Plans

- In association with TWDB financial assistance
- When associated with surface-water rights
 - >1,000 ac-ft for municipal and industrial use
 - > 10,000 ac-ft for irrigation use
- Retail providers with > 3,300 connections


Water Conservation Plans

- 5 and 10-Year Targets and Goals
 - GPCD
 - Water Loss
 - Water Loss and Leak Detection
 - Meter testing and replacement
 - Non-promotional water rates
 - Education
 - Adoption of Plan
- 

Utility Profile Is Part Of WCP

Identifies customer use characteristics, water conservation opportunities, and potential targets and goals.

Information includes:

- population served
 - number of connections
 - water supply system data
 - history of water use
 - waste water system data
- 

Annual WCP Reports

Components


The Annual Report collects utility data on:

- Targets and Goals
- GPCD
- Water Savings
- Water Loss
- Educational Programs
- Rate Structures
- Meter Testing and Repairs
- Use of Drought Contingency Plan


Due Annually by May 1



Water Loss Audit

- Is a "top down" audit or a "desktop" exercise using existing estimations and records.
 - Submit a Water Loss Audit every 5 years.
 - Answers the following questions:
 - Where was water lost?
 - How much water was actually lost? (VOLUME)
 - What was the value of that water ?
 - Why was water lost?
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Annual Water Use Survey

- Municipal survey form is for public water systems
 - Data provides information for water supply studies and regional and state water planning
 - Online survey created as an alternative to the paper-copy surveys
 - Survey collects:
 - volume of both ground and surface water used
 - source of the water
 - water sales
 - other pertinent data
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Resources:

<http://www.twdb.texas.gov/conservation>

<http://www.wateriq.org>

<http://www.savetexaswater.org>

<http://www.twdb.texas.gov/wrpi/swp/swp.asp>

<http://www.twdb.texas.gov/wrpi/wus/wus.asp>



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