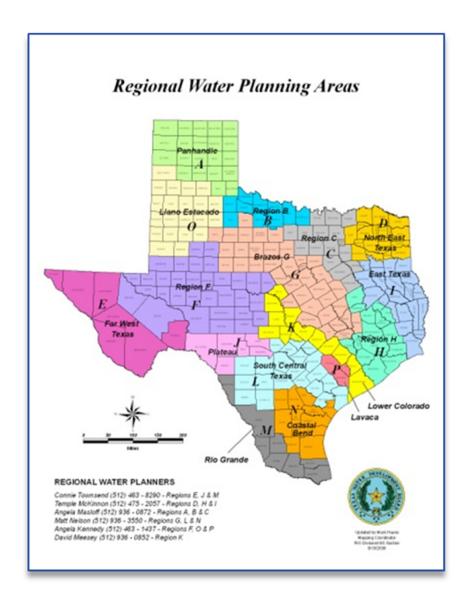
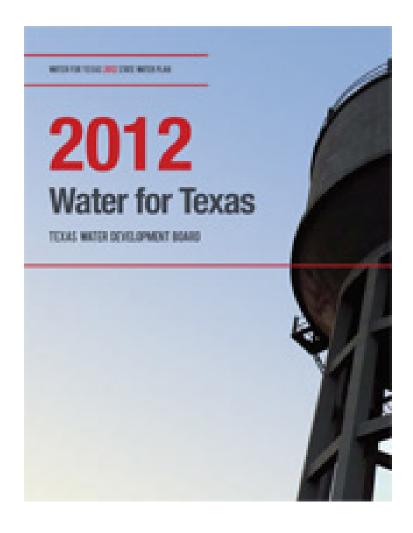


Texas Water Reuse Scorecard

Jorge A. Arroyo, P.E. Water Reuse University of Texas at Austin, 15 February 2013







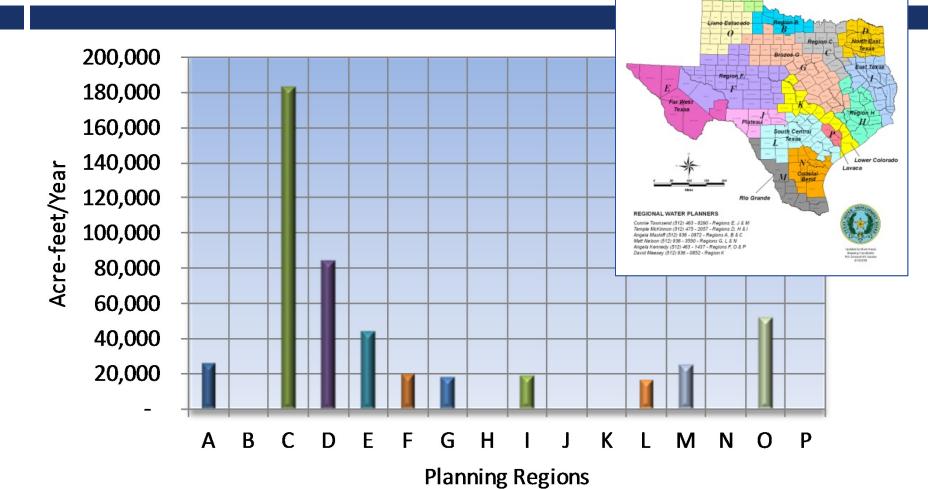
Projected <u>existing</u> reuse by 2009

341,386 AFY*

* Table 5-8 Water For Texas 2002, Volume 1



Existing Reuse Volum





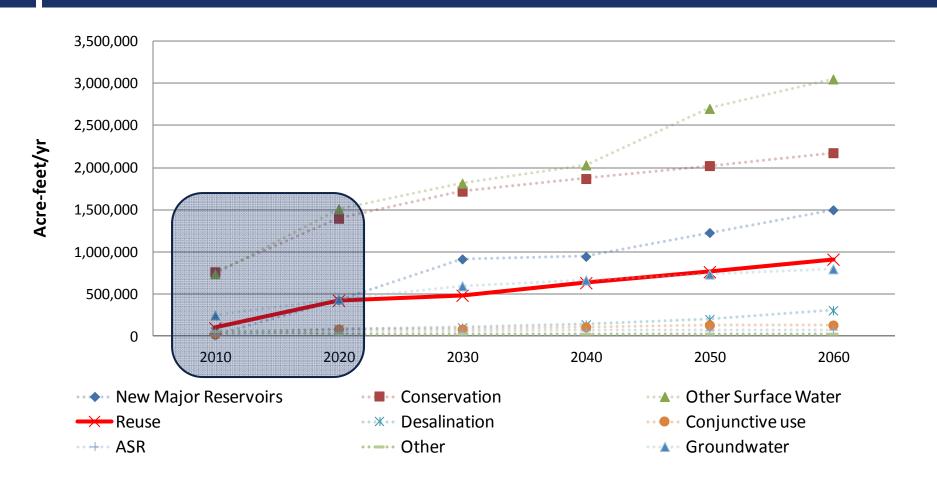
Regional Water Planning Areas

2011-Water Conservation Annual Report

	Reuse in Acre- Feet
Houston	32,011
Austin	12,573
Corpus Christi	7,898

2012 State Water Plan Recommended Water Management

Strategies





Reuse to be added in the next 17 years*

[acre-feet per year]

Regio n	2010 decade	2020 decade
С	1,937	229,825
Е	-	4,312
F	-	12,380
G	18,723	21,610
Н	168	33,813
I	-	2,872
K	54,311	8,765
L	21,666	4,380
M	3,537	7,474
N	250	-
0	-	2,240
Total	100,592	327,671

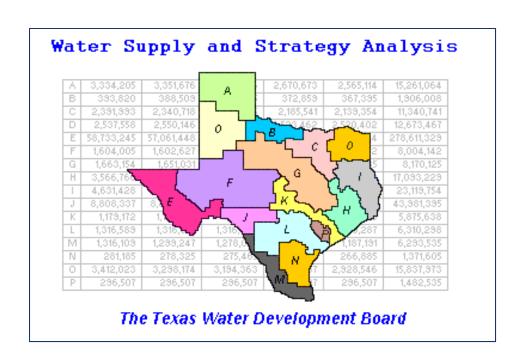


* 2012 State Water Plan-DB12



Projects

- □ DB-12
- Regional entities
- □ SWP WMS WWP
- □ SWP WMS WUG
- WMS Type =Reuse
- Online Date:2010, 2020



http://www.twdb.state.tx.us/wrpi/data/rwpg.as



2010-2020 Projects – Region C

- Regional projects
 - Dallas [C19-C71] [30 WUG]
 - Fort Worth [C55] [3 WUG]
 - City of Gainesville [C55] [2 WUG]
 - North Texas MWD [C72] [66 WUG]
 - Tarrant Regional WD [C11] [72 WUG]
 - Trinity River Authority [C21.4] [WUG 1]
 - Upper Trinity WD [C78] [WUG 21]

WUG: water user group

- □ Other (?)
 - Seller: Trinity River Authority [C21.5] [WUG 1]
 - Seller: Various [C37.2] [WUG 12]
 - Seller: Tarrant Regional WD [C50.2] [WUG 2]
 - Azle [C53] [WUG 1]
 - Mabank [C53.1 R] [WUG1]
 - Irving [C55] [WUG 2]
 - Frisco [DR-Frisco] [WUG 2]
 - Jacksboro [IR-Jacksboro] [WUG 1]



2010-2020 Projects, Regions E, F, G

- □ Region E
 - El Paso Water Utilities
 - Tailwater reuse for agricultural irrigation
- □ Region F
 - Colorado River MWD
 - Odessa
 - Big Spring
 - Midland
 - Snyder

- Region G
 - City of Abilene
 - City of Waco
 - City of Round Rock
 - Bell County WCID#1
 - City of Killeen
 - City of Harker Heights



2010-2020 Projects, Region H, I, K

- Region H
 - City of Missouri City
 - North Harris County RWA
 - Sugar Land
 - City of Houston
 - River Plantation GRP
 - Montgomery MUD 8/9
 - Fulshear
 - Fort Bend MUD 25 GRP

- Region I
 - Athens MunicipalWater Authority
 - ☐ Region K
 - City of Austin
 - Lower Colorado River Authority



2010-2020 Projects, Regions L, M, N, O

- □ Region L
 - Canyon Regional Water Authority
 - San Antonio Water System
- □ Region N
 - City of Corpus Christi
- Region O
 - White River Municipal Water District

- □ Region M
 - City of McAllen
 - Alamo
 - Mission
 - Pharr
 - Rio Grande City
 - Laredo
 - Weslaco

Projects/Project sponsors

Sludge Dewatering

Anserobic Digesters

Regional/wholesale water providers
 Medium to large municipalities



Reuse Research Agenda – priorities

- 1. Role of environmental buffers
- 2. Wetlands treatment performance
- 3. Reuse and managed aquifer recharge schemes
- 4. Nutrient removal processes
- 5. Nanofiltration
- 6. Organizational, institutional and public awareness
- 7. Integrated water quality models

http://www.twdb.texas.gov/innovativewater/reuse/index.asp

