



The Future of Water in Texas – Prop 6 and the Crucial Water Issues Facing Texas

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Types of Water

- **Surface Water** – all of the water under ordinary flow, underflow and tides of every flowing river, natural stream, lake, bay, arm of the Gulf of Mexico, and stormwater, floodwater, or rain water of every river, natural stream, canyon, ravine, depression and watershed in the state. (Texas Water Code §11.021)
- **Groundwater** – water percolating below the surface of the earth.

Surface Water

- Regulated and permitted by the Texas Commission on Environmental Quality (TCEQ)
- Texas and TCEQ use the prior appropriation doctrine – first in time is the first in right.

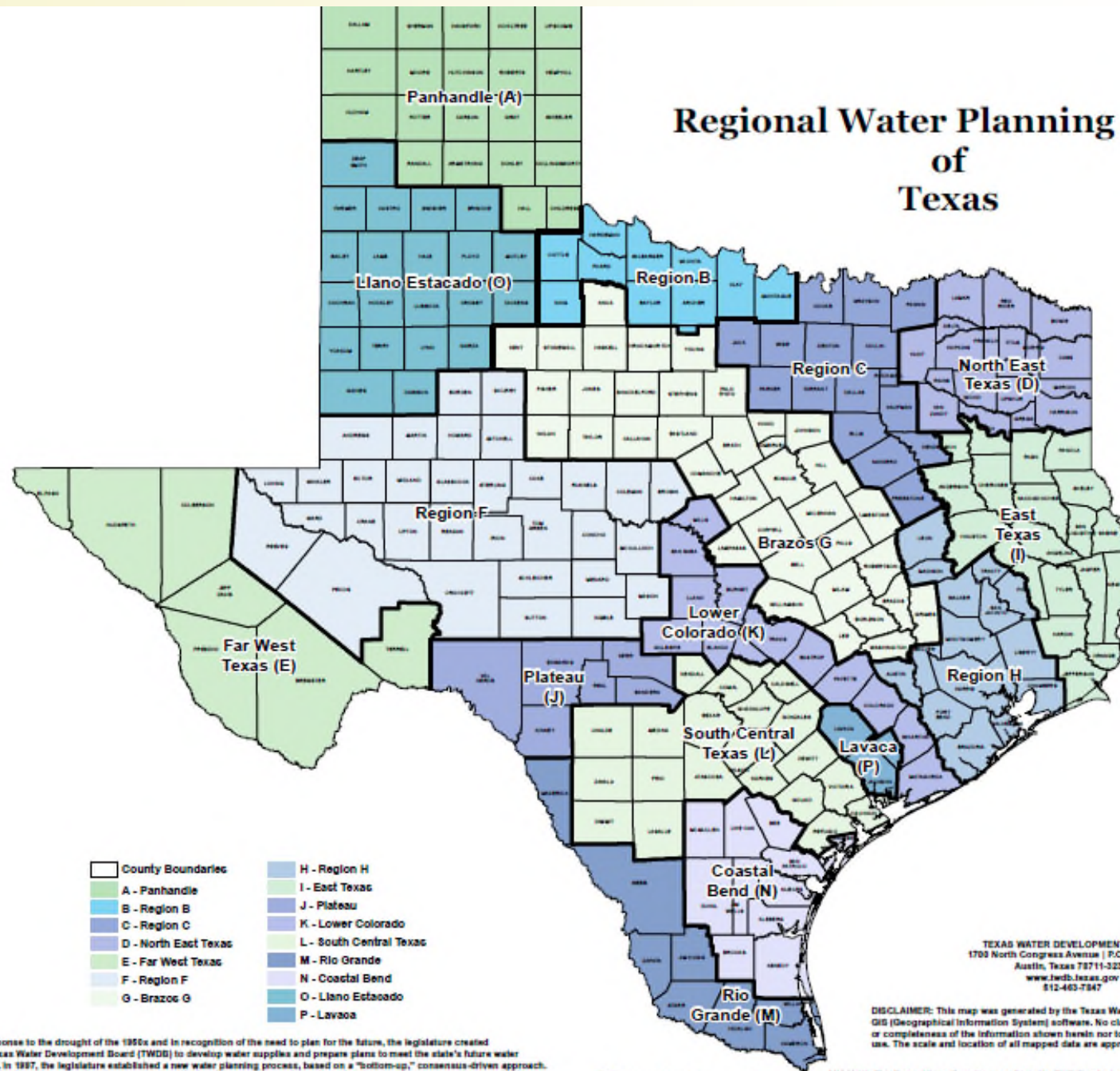
Groundwater

- Senate Bill 332 - 2011
 - Established in Section 36.002 of the Texas Water Code that a landowner owns the groundwater below the surface of the landowner's land as real property.
- Edwards Aquifer Authority v. Day
 - Confirmed the Legislature's statement of Texas groundwater law and stated that a landowner's right to produce groundwater is subject to the regulation of groundwater conservation districts (GCDs).

Recent Texas Water Legislation

- Senate Bill 1 – 1997
- Senate Bill 2 – 2001
- Senate Bill 3 – 2007
- House Bill 4, HB 1025, and SJR 1 – 2013

Regional Water Planning Area of Texas





State Water Implementation Fund for Texas (SWIFT) Legislative Package

- HB 4 - provides the framework and administration of the SWIFT and State Water Implementation Revenue Fund (SWIRFT) and the re-organization of the Texas Water Development Board (TWDB).
- Senate Joint Resolution (SJR)1 – proposes an amendment to Texas Constitution to create the SWIFT and SWIRFT to assist in the financing of water projects.
- HB 1025 - authorizes a one-time \$2 billion placement of funds from the Economic Stabilization Fund (Rainy Day Fund) into the SWIFT if the voters

Prop 6 – Approval of SWIFT by Texas Voters on November 5

- Voters of Texas approved Proposition 6 to amend the Texas Constitution to create the SWIFT.
- Proposition 6 approved by 73.37% of the voters.
- 836,424 voters voted in favor of Prop. 6
- 303,547 voters voted against Prop. 6

HB 4 (Ritter/Fraser) – SWIFT, SWIRFT, and TWDB Re-Organization

- Provides for framework and administration of SWIFT and SWIRFT.
- Re-organized several aspects of TWDB, including the leadership structure.
- TWDB will now have 3 full-time board members instead of 6 part-time board members.
- An advisory committee for the SWIFT is established which is comprised of the Comptroller and members appointed by Speaker and Lt. Governor. The advisory committee must make recommendations to the TWDB regarding the use of money in the SWIFT.
- Requires prioritization of projects by RWPGs and TWDB.
- TWDB must create a point system for prioritization of projects.



HB 4 (Ritter/Fraser) – SWIFT, SWIRFT, and TWDB Re-Organization

- SWIFT and SWIRFT were created to leverage \$2 billion to finance the nearly \$30 billion worth of water supply projects identified in the State Water Plan.
- The funds are revolving and self-supporting in nature.
- The funds are to be used to subsidize interest rates, to allow for longer and incremental repayment terms, and to enable entities to have deferral periods on the repayment of funds needed for water projects.

HB 4 (Ritter/Fraser) – Timelines for Action

- Sept. 1 = Board members appointed by Governor Perry begin terms.
- Nov. 5 = Voters approved Proposition 6
- ASAP after Nov. 5 = Advisory Committee members appt.
- Dec. 1 = RWPG stakeholder committee submits project prioritization standards to TWDB and TWDB must approve.
- Sept. 1, 2014 = RWPGs submit final prioritization of projects from 2011 RWPGs.
- March 1, 2015 = Deadline for TWDB adoption of rules.

TWDB Board Members Appointed by Governor Perry

- On August 16, 2013, Governor Perry appointed 3 board members to the TWDB pursuant to HB 4.
- Carlos Rubinstein, Bech Brunn, and Mary Ann Williamson will serve full-time effective September 1, 2013.
- Rubinstein will serve as chair of the board for a term to expire at the pleasure of the governor.

Texas Groundwater Management / Law

- Exciting time to be involved with water issues in Texas
- Water management and Texas law governing water is evolving and organic
- 1997 – 38 GCDs in existence
- 2013 – 99 GCDs with 3 GCDs awaiting confirmation elections

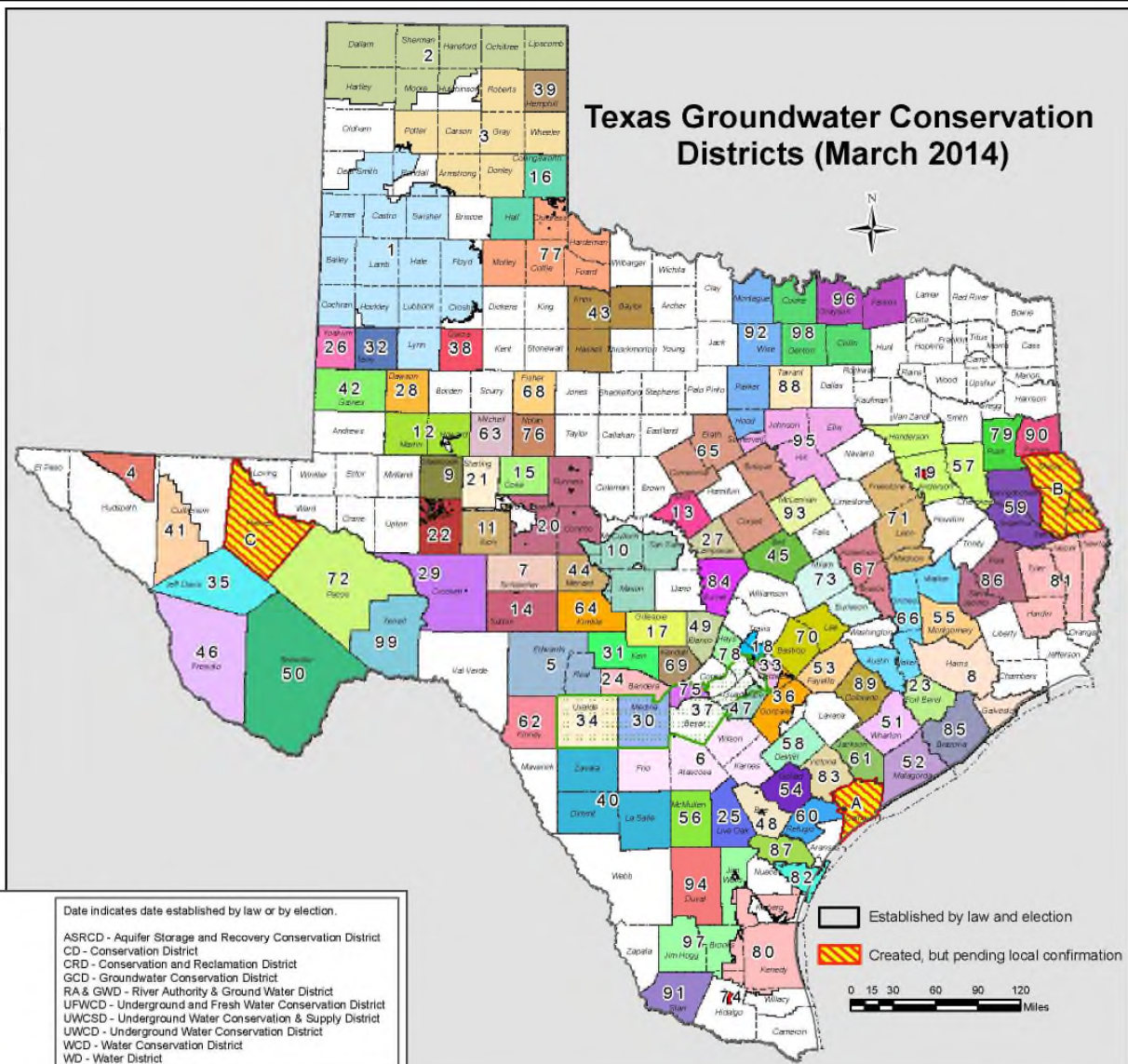
Groundwater Conservation Districts

- 1 High Plains UWCD No. 1 - 9/29/1951
- 2 North Plains GCD - 1/2/1955
- 3 Panhandle GCD - 1/21/1956
- 4 Hudspeith County UWCD No. 1 - 10/5/1957
- 5 Real-Edwards C and R District - 5/30/1959
- 6 Evergreen UWCD - 8/30/1965
- 7 Plateau UWC and Supply District - 3/4/1974
- 8 Harris-Galveston Subsidence District - 4/23/1975
- 9 Glasscock GCD - 8/22/1981
- 10 Hickory UWCD No. 1 - 8/14/1982
- 11 Irion County WCD - 8/2/1985
- 12 Permian Basin UWCD - 9/21/1985
- 13 Fox Crossing Water District - 4/4/1986
- 14 Sutton County UWCD - 4/5/1986
- 15 Coke County UWCD - 11/4/1986
- 16 Mesquite GCD - 11/4/1986
- 17 Hill Country UWCD - 8/8/1987
- 18 Barton Springs/Edwards Aquifer CD - 8/13/1987
- 19 Anderson County UWCD - 10/17/1987
- 20 Lipan-Kickapoo WCD - 11/3/1987
- 21 Sterling County UWCD - 11/3/1987
- 22 Santa Rita UWCD - 8/19/1989
- 23 Fort Bend Subsidence District - 8/28/1989
- 24 Bandera County RA & GWD - 11/7/1989
- 25 Live Oak UWCD - 11/7/1989
- 26 Sandy Land UWCD - 11/7/1989
- 27 Saratoga UWCD - 11/7/1989
- 28 Mesa UWCD - 1/20/1990
- 29 Crockett County GCD - 1/26/1991
- 30 Medina County GCD - 8/26/1991
- 31 Headwaters UWCD - 11/5/1991
- 32 South Plains UWCD - 2/8/1992
- 33 Plum Creek CD - 5/1/1993
- 34 Uvalde County UWCD - 9/1/1993
- 35 Jeff Davis County UWCD - 11/2/1993
- 36 Gonzales County UWCD - 11/2/1994
- 37 Edwards Aquifer Authority - 7/28/1996
- 38 Garza County UWCD - 11/5/1996
- 39 Hemphill County UWCD - 11/4/1997
- 40 Wintergarden GCD - 1/17/1998
- 41 Culberson County GCD - 5/2/1998
- 42 Llano Estacado UWCD - 11/3/1998
- 43 Rolling Plains GCD - 1/26/1999
- 44 Menard County UWCD - 8/14/1999
- 45 Clearwater UWCD - 8/21/1999
- 46 Presidio County UWCD - 8/31/1999
- 47 Guadalupe County GCD - 11/14/1999
- 48 Bee GCD - 1/20/2001
- 49 Blanco-Pedernales GCD - 1/23/2001
- 50 Brewster County GCD - 11/6/2001
- 51 Coastal Bend GCD - 11/6/2001
- 52 Coastal Plains GCD - 11/6/2001
- 53 Fayette County GCD - 11/6/2001
- 54 Goliad County GCD - 11/6/2001
- 55 Lone Star GCD - 11/6/2001
- 56 McMullen GCD - 11/6/2001
- 57 Neches & Trinity Valleys GCD - 11/6/2001
- 58 Pecan Valley GCD - 11/6/2001
- 59 Pineywoods GCD - 11/6/2001
- 60 Refugio GCD - 11/6/2001
- 61 Texana GCD - 11/6/2001
- 62 Kinney County GCD - 1/12/2002
- 63 Lone Wolf GCD - 2/2/2002
- 64 Kimble County GCD - 5/3/2002
- 65 Middle Trinity GCD - 5/4/2002
- 66 Bluebonnet GCD - 11/5/2002
- 67 Brazos Valley GCD - 11/5/2002
- 68 Clear Fork GCD - 11/5/2002
- 69 Cow Creek GCD - 11/5/2002
- 70 Lost Pines GCD - 11/5/2002
- 71 Mid-East Texas GCD - 11/5/2002
- 72 Middle Pecos GCD - 11/5/2002
- 73 Post Oak Savannah GCD - 11/5/2002
- 74 Red Sands GCD - 11/5/2002
- 75 Trinity Glen Rose GCD - 11/5/2002
- 76 Wes-Tex GCD - 11/5/2002
- 77 Gateway GCD - 5/3/2003
- 78 Hays Trinity GCD - 5/3/2003
- 79 Rusk County GCD - 6/5/2004
- 80 Kennedy County GCD - 11/2/2004
- 81 Southeast Texas GCD - 11/2/2004
- 82 Corpus Christi ASRCD - 6/17/2005
- 83 Victoria County GCD - 6/5/2005
- 84 Central Texas GCD - 9/24/2005
- 85 Brazoria County GCD - 11/8/2005
- 86 Lower Trinity GCD - 11/7/2006
- 87 San Patricio County GCD - 5/12/2007
- 88 Northern Trinity GCD - 5/15/2007
- 89 Colorado County GCD - 11/6/2007
- 90 Panola County GCD - 11/6/2007
- 91 Starr County GCD - 11/6/2007
- 92 Upper Trinity GCD - 11/6/2007
- 93 Southern Trinity GCD - 8/19/2009
- 94 Duval County GCD - 7/25/2009
- 95 Prairielands GCD - 9/1/2009
- 96 Red River GCD - 9/1/2009
- 97 Brush Country GCD - 11/3/2009
- 98 North Texas GCD - 12/1/2009
- 99 Terrell County GCD - 11/6/2012

Pending Confirmation

- A - Calhoun County GCD
B - Deep East Texas GCD
C - Reeves County GCD

Texas Groundwater Conservation Districts (March 2014)



Texas Commission on Environmental Quality

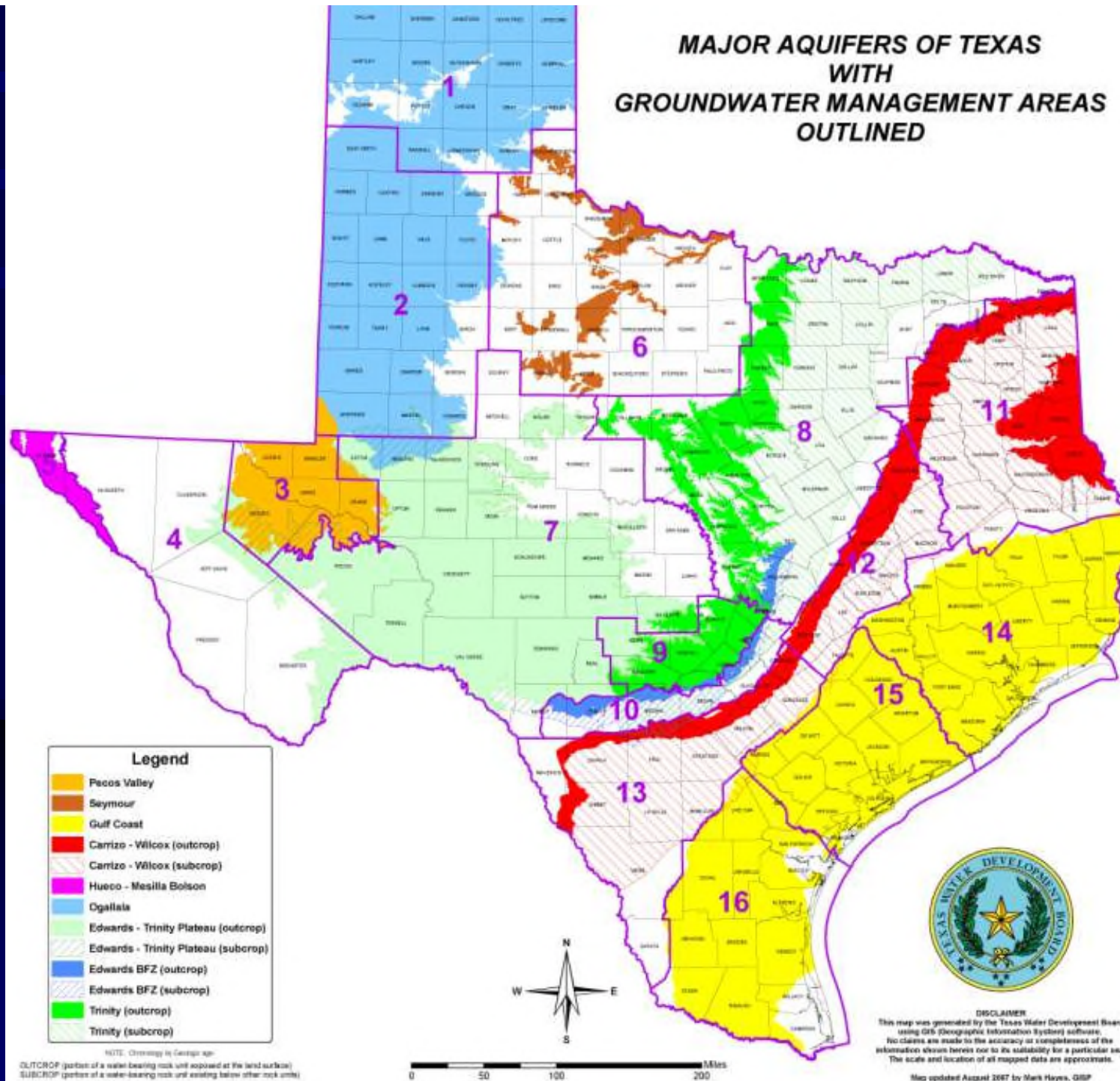


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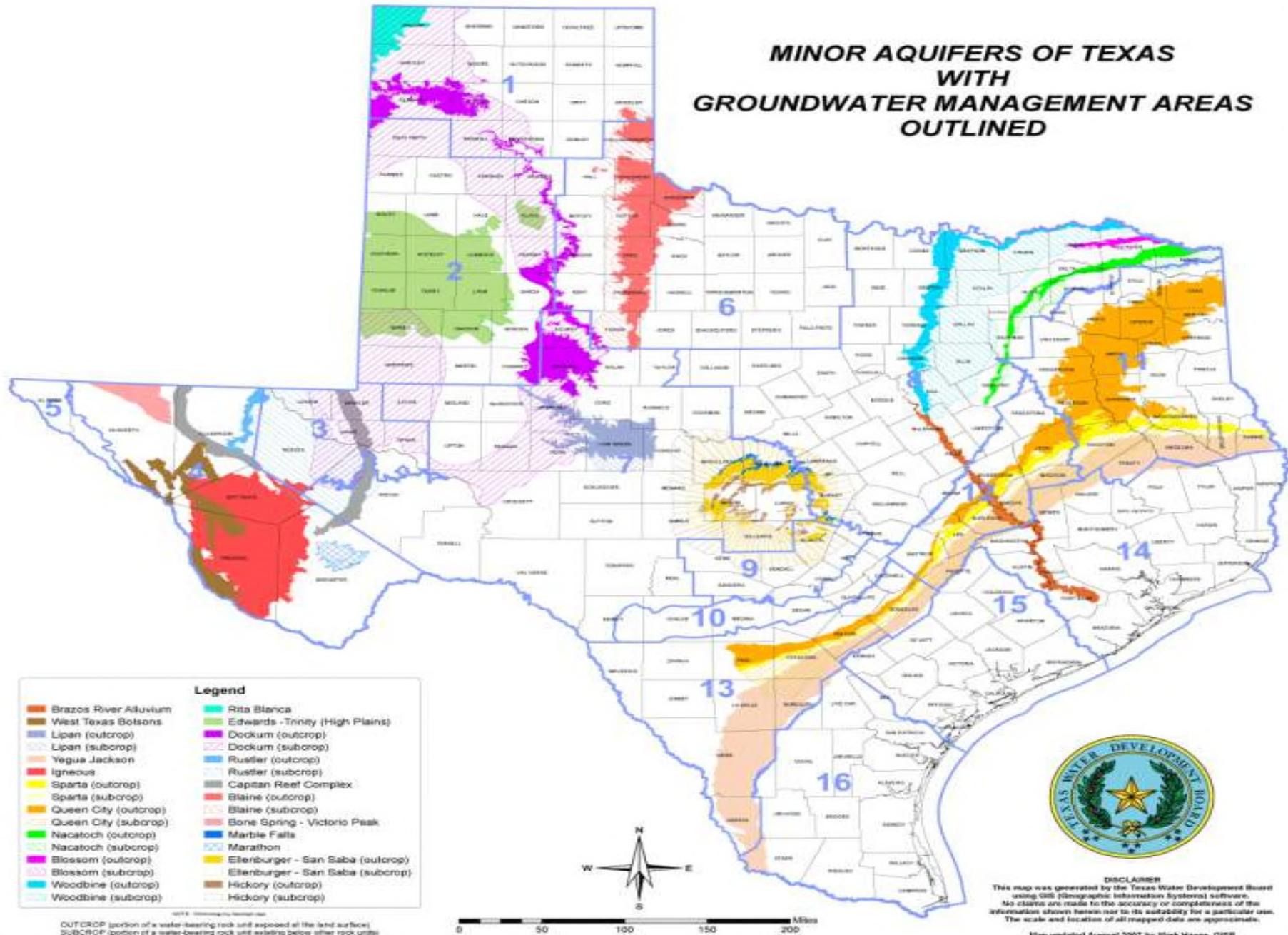
Map printed March 3, 2014.

TCEQ/WHW/WHW/WHW/WHW/WHW

MAJOR AQUIFERS OF TEXAS WITH GROUNDWATER MANAGEMENT AREAS OUTLINED



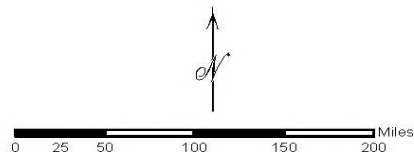
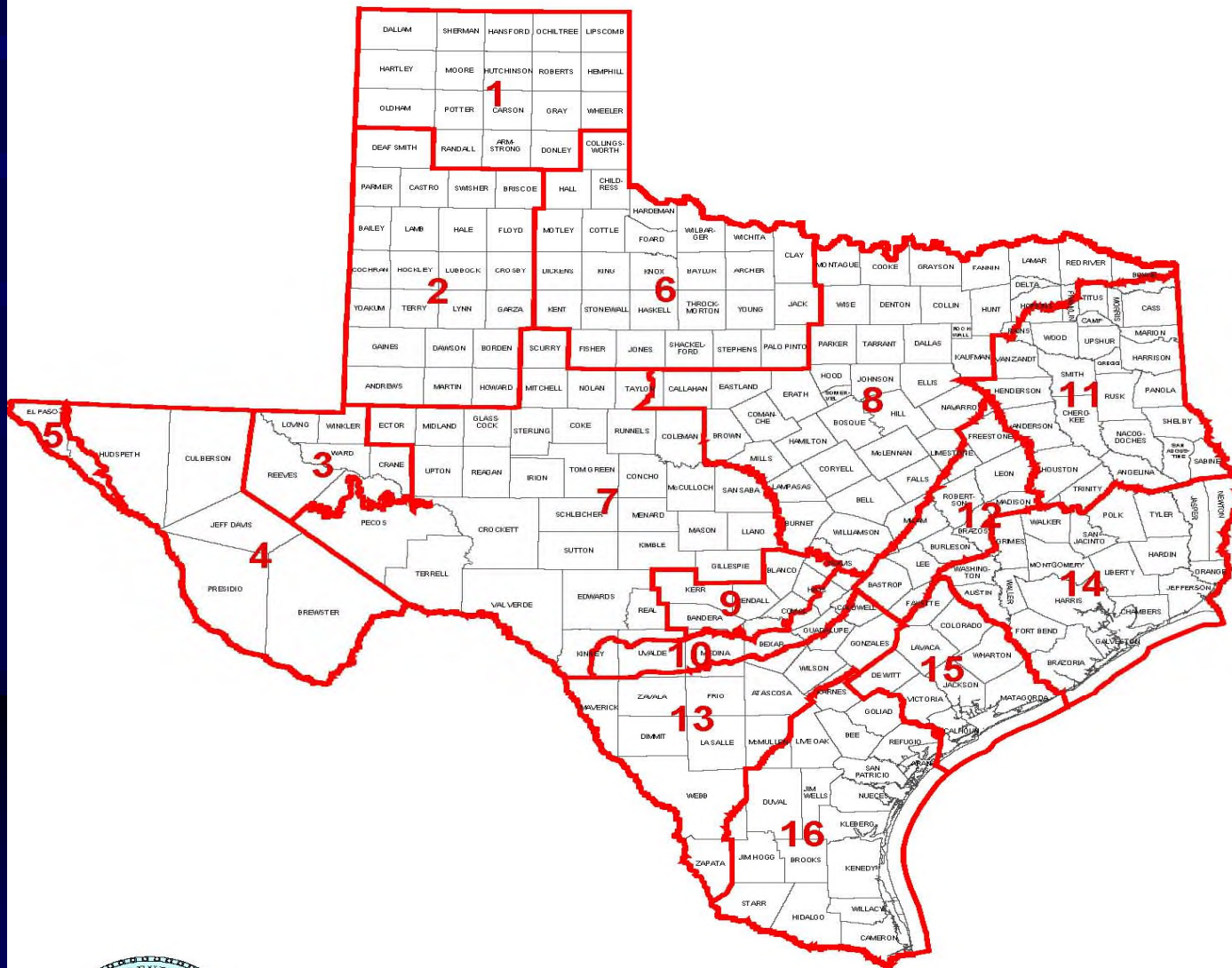
MINOR AQUIFERS OF TEXAS WITH GROUNDWATER MANAGEMENT AREAS OUTLINED



Texas Groundwater Management / Law

- Increased level of knowledge about groundwater resources and management but much more is needed
 - Ex. Middle Trinity GCD (Erath, Comanche, Bosque, and Coryell Counties)
- Science, science, science

Groundwater Management Areas in Texas



DISCLAIMER
This map was generated by the Texas Water Development Board using GIS (Geographical Information Systems) software. No claims are made to the accuracy or completeness of the information shown herein nor to its suitability for a particular use. The scale and location of all mapped data are approximate.

November 2002 - by Mark Hayes, GIS section

Groundwater Management Area (GMA) Process for GCDs

- Based on legislative changes made in 2011, the DFC Process was substantially revised.
- GCDs in each of the 16 GMAs must consider a list of 9 factors and propose DFCs for the aquifers within the GMA
- A 90 day public comment period begins after DFCs are provided to the GCDs

Groundwater Management Area (GMA) Process for GCDs

- GCDs hold public hearings during 90 day comment period and prepare summary reports
- GMA meets to consider summary reports and to adopt DFCs
- GMA prepares an explanatory report and submits DFC info to TWDB
- GMA provides DFC info to GCDs and GCDs adopt DFCs ASAP after receiving info



Groundwater Issues to be studied during Legislative Interim Period

- Brackish groundwater / desalination
- Aquifer Storage and Recovery
- Long-Term Permitting by GCDs
- GCD Permitting Exemptions – Water involved in Oil and Gas activities
- TDLR Regulation of Water Well Drillers



Texas Groundwater Management / Law

- Brackish groundwater / water quality
- Estimated that Texas has 2.7 billion acre-feet of brackish groundwater according to 2003 LBG-Guyton and Assoc. study.



2012 State Water Plan – Brackish Groundwater Desalination Projects

- 2012 State Water Plan recommended groundwater desalination in five regional water planning areas of Texas – Regions E, F, L, M, and O
- The volume of water that would result from brackish groundwater desalination would increase from 56,553 acre-feet in 2010 to approximately 181,568 acre-feet by 2060.

GCD Management of Brackish Groundwater

- No statutory definition of “brackish groundwater” in Texas law.
- Some want to define as groundwater that contains a total dissolved solids (TDS) concentration of more than 1,000 milligrams per liter.
- Some want to define as groundwater that contains a total TDS concentration of more than 10,000 milligrams per liter.

GCD Management of Brackish Groundwater

- Production of brackish groundwater is being permitted by GCDs today
- No differentiation in most GCDs' rules between potable groundwater and brackish groundwater
- Vast majority of Desired Future Conditions (DFCs) and Modeled Available Groundwater (MAG) don't differentiate between potable groundwater and brackish groundwater

GCD Management of Brackish Groundwater

- Do GCDs want to encourage the production and use of brackish groundwater?
- Yes. GCDs understand that growing communities and businesses need more water supplies but not at the expense of the groundwater resources within GCDs' boundaries and, particularly, potable groundwater resources

GCD Management of Brackish Groundwater

- Can GCDs encourage the production brackish groundwater under existing Texas law and within their existing regulatory frameworks?
- Yes. GCDs can authorize the production of brackish groundwater in greater amounts as part of well permitting process.
- Chapter 36 enables GCDs to adopt different DFCs related to brackish groundwater production and to establish management zones from which brackish groundwater can be produced.

Legislative Interim / 84th Legislature

- Stakeholder groups working on brackish groundwater issues
 - Texas Water Conservation Association
 - Texas Alliance of Groundwater Districts
 - Texas Desalination Association
- Interim Committee Studies with recommendations for 84th Texas Legislature

Surface Water Issues

- Addressing Drought Issues
- Colorado River – Highland Lakes vs. Rice Farmers
- Brazos River – Possible designation of Water Master
- Conservation Efforts by Municipalities
- TCEQ Regulation of Surface Water Impoundments / Dam Safety

Questions?

- Any questions?
- Thank you.