



Doug Shaw
General Manager



Water Management in Texas

- Texas courts divide water into unrelated legal classes with different rules of law governing the ownership and use of each class:
 - Groundwater - governed by the rule of capture, which grants the landowners the right to capture the water beneath their property.
 - Surface Water - owned by the state of Texas, and can be used by a landowner only with permission from the State (with some exceptions).





Groundwater



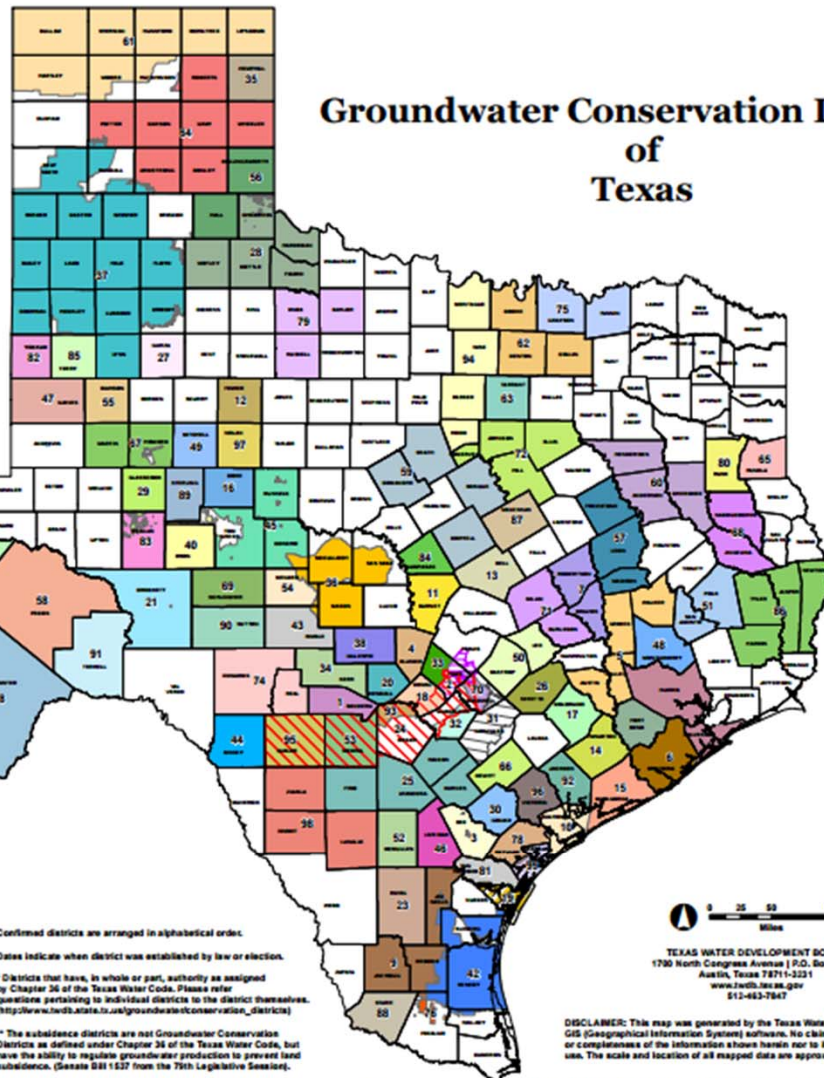
- Houston & Texas Central Railroad Co. v. East (1904)
 - The Court was faced with the choice between the rule of capture and the rule of reasonable use; the Court chose the rule of capture.
- Conservation Amendment (1917):
 - “The Conservation and development of all of the natural resources of this State...and the preservation and conservation of all such natural resources of the State are each and all hereby declared public rights and duties; and the Legislature shall pass all such laws as may be appropriate thereto.”
- In 1949, legislation was passed that allowed for a petition process for designation “underground water reservoir” and for creating groundwater conservation districts (GCDs).
 - Several Acts of the Legislature to refine this process

Groundwater Conservation Districts of Texas

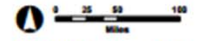
- Confirmed Groundwater Conservation Districts ***
1. Bandera County River Authority & Ground Water District - 11/7/1989
 2. Barton Springs/Edwards Aquifer CD - 8/13/1987
 3. Bee GCD - 1/15/2001
 4. Blanco-Pedernales GCD - 1/23/2001
 5. Blaine GCD - 1/15/2002
 6. Brazoria County GCD - 11/8/2005
 7. Brazos Valley GCD - 11/5/2002
 8. Brewster County GCD - 11/6/2001
 9. Brush Country GCD - 11/3/2009
 10. Calhoun County GCD - 11/6/2014
 11. Central Texas GCD - 9/24/2005
 12. Clear Fork GCD - 11/5/2002
 13. Clearwater UWCD - 8/21/1999
 14. Coastal Bend GCD - 11/6/2001
 15. Coastal Plains GCD - 11/6/2001
 16. Coke County UWCD - 11/6/1986
 17. Colorado County GCD - 11/14/1999
 18. Conal Trinity GCD - 6/17/2005
 19. Corpus Christi ASRCD - 6/17/2005
 20. Cow Creek GCD - 11/5/2002
 21. Crockett County GCD - 10/6/1991
 22. Culberson County GCD - 5/21/1998
 23. Duvall County GCD - 7/25/2009
 24. Edwards Aquifer Authority - 7/28/1994
 25. Evergreen UWCD - 8/26/1965
 26. Fayette County GCD - 11/6/2001
 27. Garza County UWCD - 11/5/1994
 28. Gateway GCD - 5/21/2003
 29. Glasscock GCD - 8/21/1981
 30. Goblet County UWCD - 11/5/2001
 31. Gonzalez County UWCD - 11/21/1994
 32. Guadalupe County GCD - 11/14/1999
 33. Hays Trinity GCD - 6/23/2003
 34. Headwaters GCD - 11/5/1991
 35. Hemphill County UWCD - 11/5/1997
 36. Hickory UWCD No. 1 - 8/14/1982
 37. High Plains UWCD No. 1 - 9/29/1951
 38. Hill County UWCD - 8/8/1987
 39. Hudspeth County UWCD No. 1 - 10/5/1987
 40. Irion County WCD - 8/21/1985
 41. Jeff Davis County UWCD - 11/21/1993
 42. Kennedy County GCD - 11/2/2004

- Confirmed Groundwater Conservation Districts (Cont.) ***
43. Kinble County GCD - 5/22/2002
 44. Kinney County GCD - 11/2/2002
 45. Lipan-Kickapoo WCD - 11/3/1987
 46. Live Oak UWCD - 11/7/1989
 47. Llano Estacado UWCD - 11/31/1998
 48. Lone Star GCD - 11/6/2001
 49. Lone Wolf GCD - 3/23/2002
 50. Lost Pine GCD - 11/5/2002
 51. Lower Trinity GCD - 11/7/2006
 52. McLallen GCD - 11/6/2001
 53. Medina County GCD - 8/26/1991
 54. Menard County UWCD - 8/14/1999
 55. Mies UWCD - 10/8/1980
 56. Mesquite GCD - 11/6/1986
 57. Mid-East Texas GCD - 11/5/2002
 58. Middle Pecan GCD - 11/5/2002
 59. Middle Trinity GCD - 5/6/2002
 60. Neches & Trinity Valleys GCD - 11/6/2001
 61. North Plains GCD - 10/19/95
 62. North Texas GCD - 12/12/2005
 63. Northern Trinity GCD - 5/15/2007
 64. Panchhandle GCD - 10/19/85
 65. Panola County GCD - 11/6/2007
 66. Pecan Valley GCD - 11/6/2001
 67. Permian Basin UWCD - 5/11/1985
 68. Pineywoods GCD - 11/6/2001
 69. Platano UWCD and Supply District - 3/4/1974
 70. Plum Creek CD - 6/11/1993
 71. Post Oak Savannah GCD - 11/5/2002
 72. Prairielands GCD - 6/10/2005
 73. Prairieview County UWCD - 8/21/1999
 74. Reed-Edwards C and R District - 5/20/1999
 75. Red River GCD - 9/10/2009
 76. Red Sands GCD - 11/5/2002
 77. Reeves County GCD - 11/3/2015
 78. Refugio GCD - 11/6/2001
 79. Rolling Plains GCD - 11/21/1999
 80. Rusk County GCD - 6/9/2004
 81. San Antonio County GCD - 5/12/2007
 82. Sandy Land UWCD - 11/7/1989
 83. Santa Rita UWCD - 8/18/1989
 84. Saragosa UWCD - 11/7/1989
 85. South Plains UWCD - 2/8/1992
 86. Southeast Texas GCD - 11/2/2004
 87. Southern Trinity GCD - 6/15/2009
 88. Starr County GCD - 11/6/2001
 89. Sterling County UWCD - 11/21/1987
 90. Sutton County UWCD - 4/9/1986
 91. Tarrant County GCD - 11/6/2001
 92. Tarrant GCD - 11/6/2001
 93. Trinity Glen Rose GCD - 11/5/2002
 94. Upper Trinity GCD - 11/6/2001
 95. Uvalde County UWCD - 9/11/1993
 96. Victoria County GCD - 8/22/2005
 97. West-Tex GCD - 11/5/2002
 98. Wittengarden GCD - 11/7/1998

- Unconfirmed Groundwater Conservation Districts**
- 99. Aransas County GCD + #
 - + Pending Election Results
- Subsidence Districts ****
- Harris-Galveston Subsidence District
 - Fort Bend Subsidence District
- County Boundaries**



Confirmed districts are arranged in alphabetical order.
 Dates indicate when district was established by law or election.
 * Districts that have, in whole or part, authority as assigned by Chapter 36 of the Texas Water Code. Please refer questions pertaining to individual districts to the district themselves. (http://www.twd.state.tx.us/groundwaterconservation_districts)
 ** The subsidence districts are not Groundwater Conservation Districts as defined under Chapter 36 of the Texas Water Code, but have the ability to regulate groundwater production to prevent land subsidence. (Senate Bill 1537 from the 76th Legislative Session.)
 Groundwater Conservation District GIS Data created by the Texas Commission on Environmental Quality. For more information, please contact TCEQ at 512-239-1000 or wra@tceq.texas.gov.



TEXAS WATER DEVELOPMENT BOARD
 1700 North Congress Avenue | P.O. Box 13231
 Austin, Texas 78711-3231
www.twdb.texas.gov
 512-463-7847

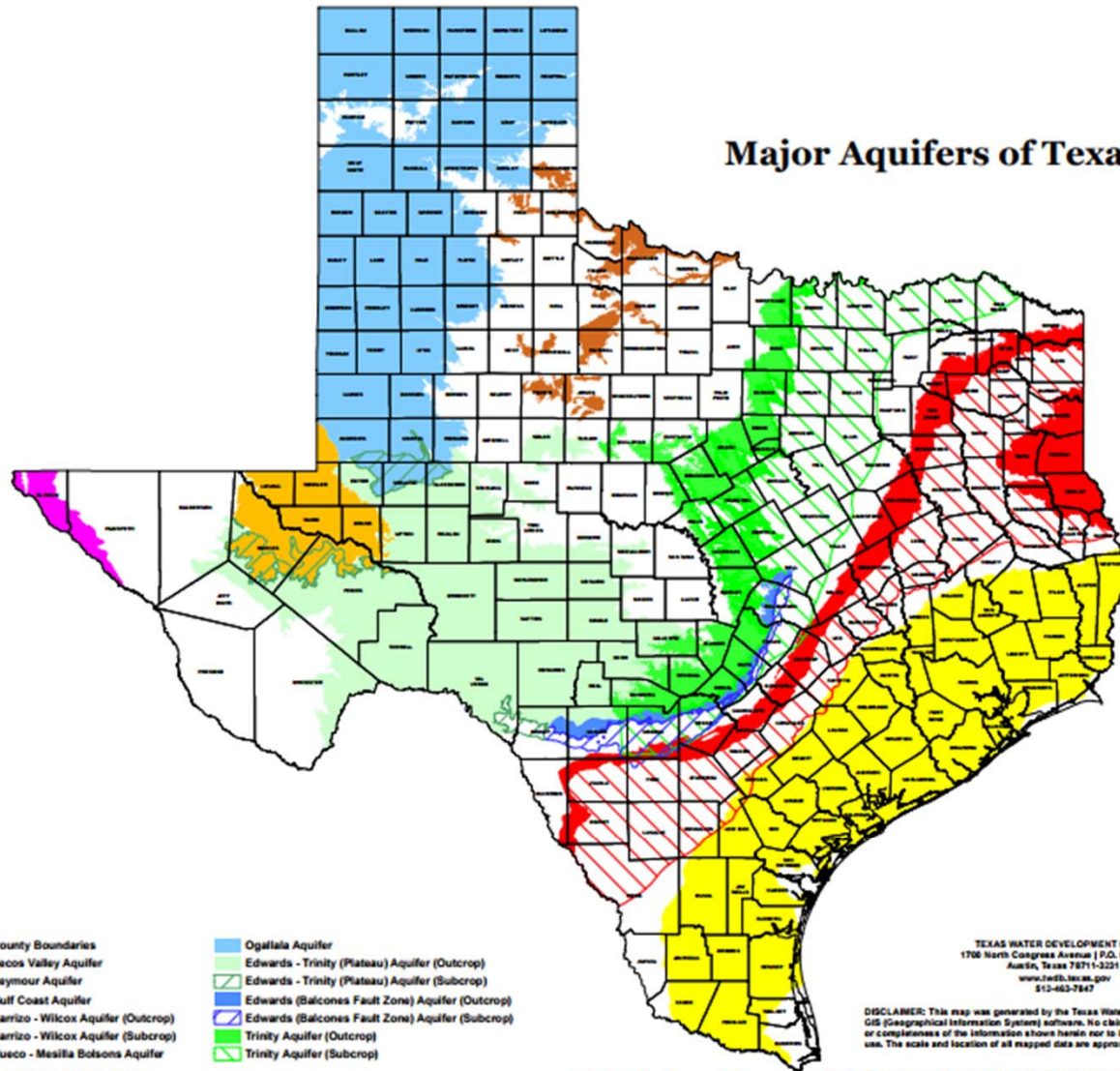
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MISSION: The Texas Water Development Board's (TWDB) mission is to provide leadership, planning, financial assistance, information, and education for the conservation and responsible development of water for Texas.



Major Aquifers of Texas



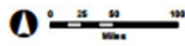
- County Boundaries
- Pecos Valley Aquifer
- Seymour Aquifer
- Gulf Coast Aquifer
- Carrizo - Wilcox Aquifer (Outcrop)
- Carrizo - Wilcox Aquifer (Subcrop)
- Hueco - Mesilla Basins Aquifer
- Ogallala Aquifer
- Edwards - Trinity (Plateau) Aquifer (Outcrop)
- Edwards - Trinity (Plateau) Aquifer (Subcrop)
- Edwards (Balcones Fault Zone) Aquifer (Outcrop)
- Edwards (Balcones Fault Zone) Aquifer (Subcrop)
- Trinity Aquifer (Outcrop)
- Trinity Aquifer (Subcrop)

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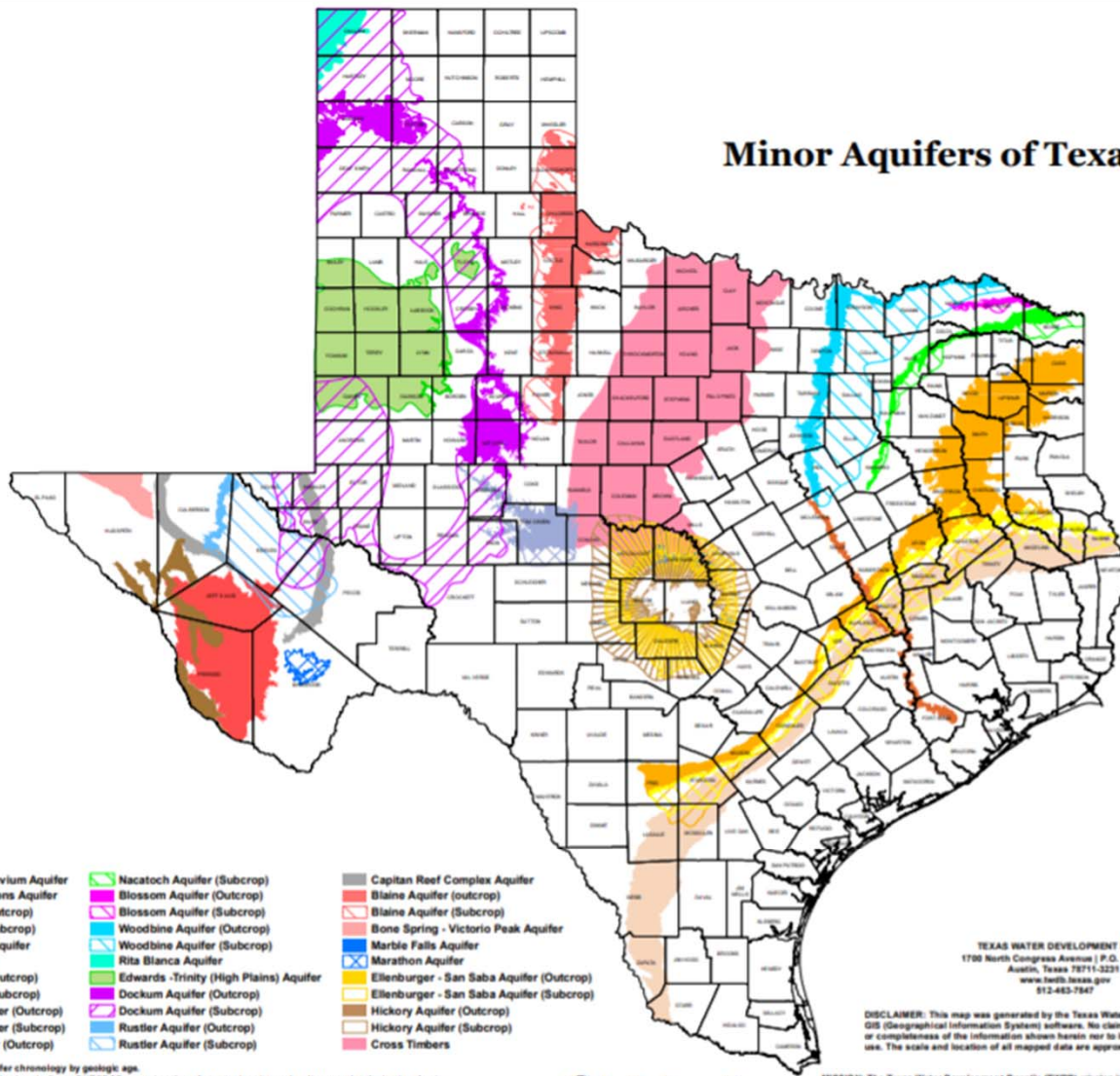
- Aquifer chronology by geologic age.
- Solid colors indicate OUTCROP areas (portion of a water-bearing rock unit exposed at the land surface).
- Hatch colored lines indicate SUBCROP areas (portion of a water-bearing rock unit existing below other rock units).



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Minor Aquifers of Texas



- | |
|---|
| <ul style="list-style-type: none"> ■ Brazos River Alluvium Aquifer ■ West Texas Bolsons Aquifer ■ Lipan Aquifer (Outcrop) ■ Lipan Aquifer (Subcrop) ■ Yegua Jackson Aquifer ■ Igneous Aquifer ■ Sparta Aquifer (Outcrop) ■ Sparta Aquifer (Subcrop) ■ Queen City Aquifer (Outcrop) ■ Queen City Aquifer (Subcrop) ■ Nacatoch Aquifer (Outcrop) ■ Nacatoch Aquifer (Subcrop) ■ Blossom Aquifer (Outcrop) ■ Blossom Aquifer (Subcrop) ■ Woodbine Aquifer (Outcrop) ■ Woodbine Aquifer (Subcrop) ■ Rita Blanca Aquifer ■ Edwards-Trinity (High Plains) Aquifer ■ Dockum Aquifer (Outcrop) ■ Dockum Aquifer (Subcrop) ■ Rustler Aquifer (Outcrop) ■ Rustler Aquifer (Subcrop) ■ Capitan Reef Complex Aquifer ■ Blaine Aquifer (outcrop) ■ Blaine Aquifer (Subcrop) ■ Bone Spring - Victorio Peak Aquifer ■ Marble Falls Aquifer ■ Marathon Aquifer ■ Ellenburger - San Saba Aquifer (Outcrop) ■ Ellenburger - San Saba Aquifer (Subcrop) ■ Hickory Aquifer (Outcrop) ■ Hickory Aquifer (Subcrop) ■ Cross Timbers |
|---|

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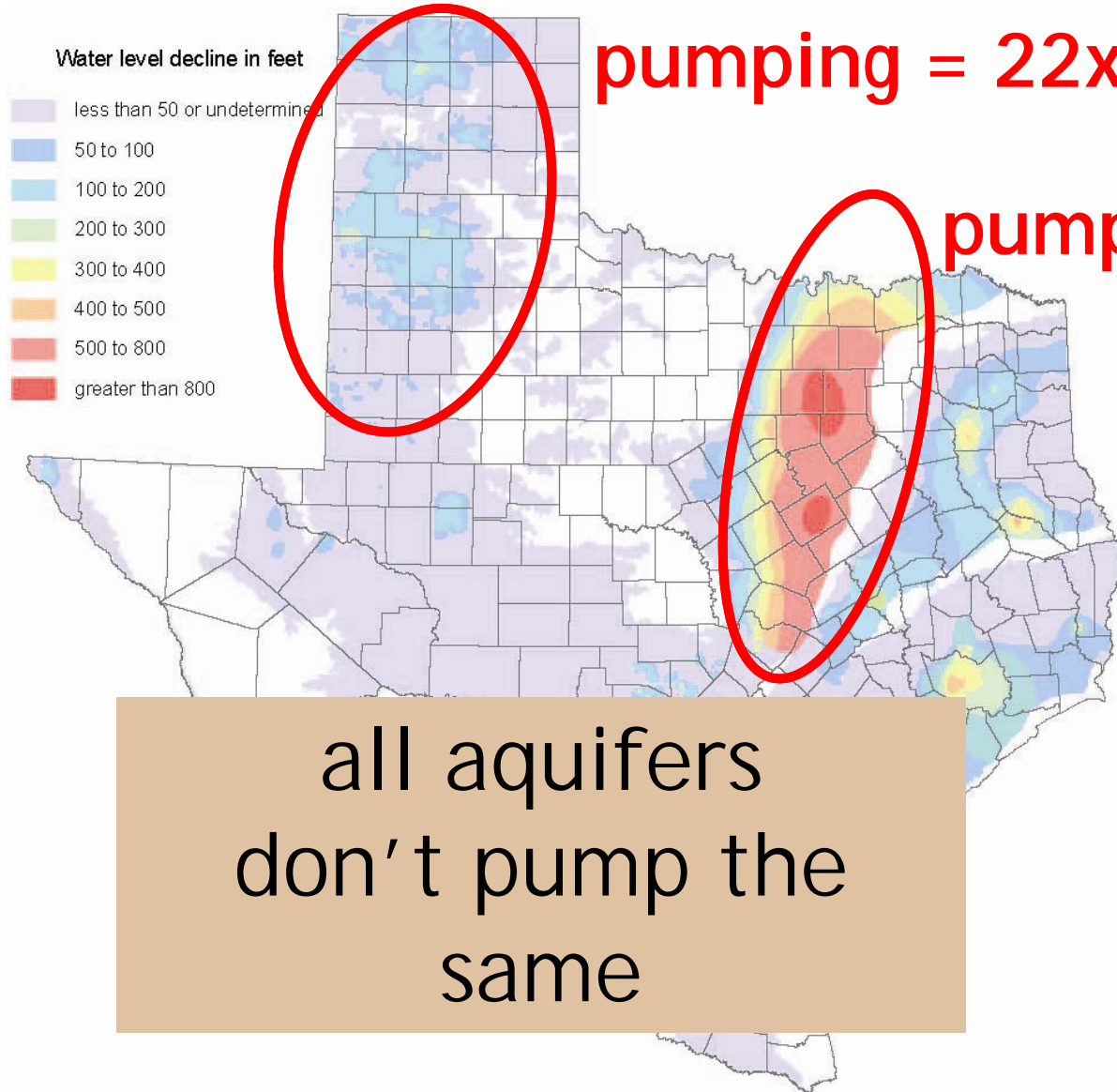


- Aquifer chronology by geologic age.
- Solid colors indicate OUTCROP areas (portion of a water-bearing rock unit exposed at the land surface).
- Hatch colored lines indicate SUBCROP areas (portion of a water-bearing rock unit existing below other rock units).
- The Edwards-Trinity (High Plains) Aquifer and the Rita Blanca Aquifer are both entirely subsurface.



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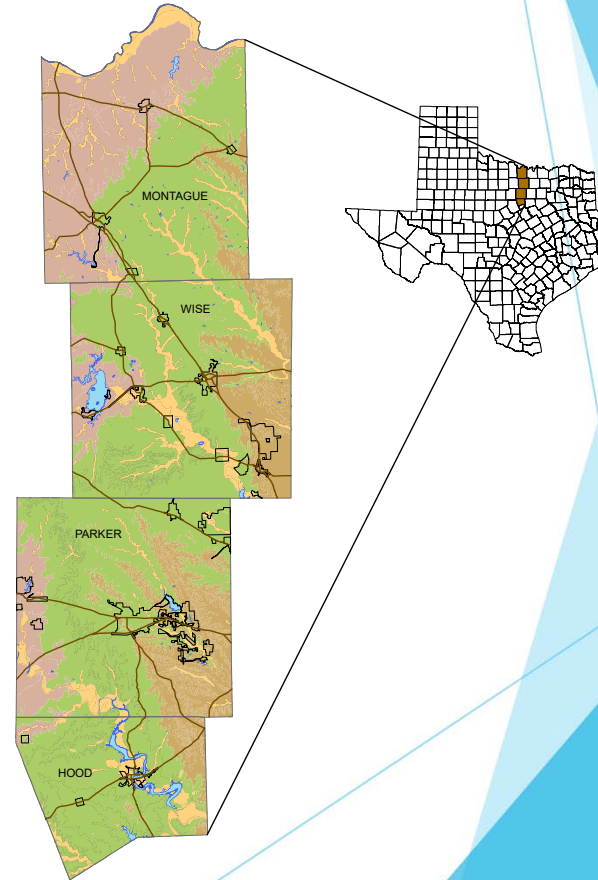
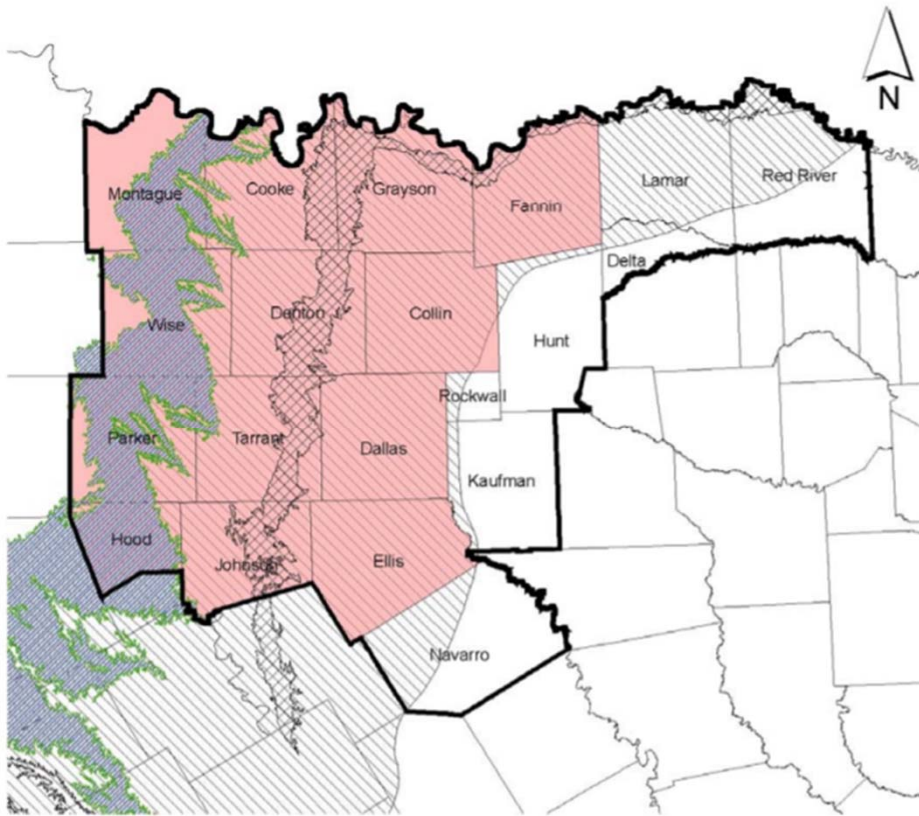


Total water-level declines in the major aquifers



Upper Trinity GCD

Hood, Parker, Wise and Montague Counties





The Trinity Aquifer

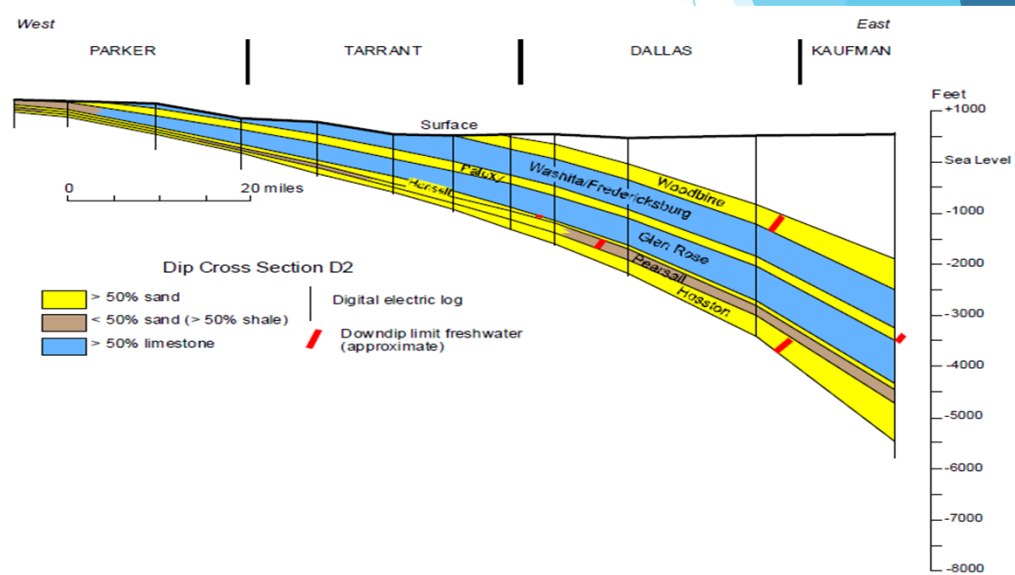
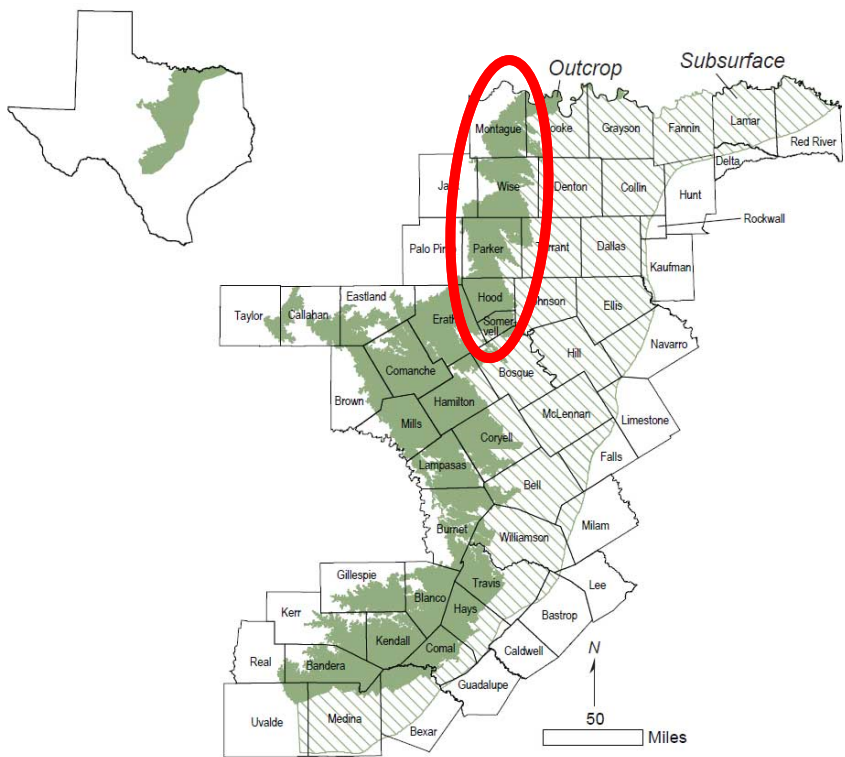
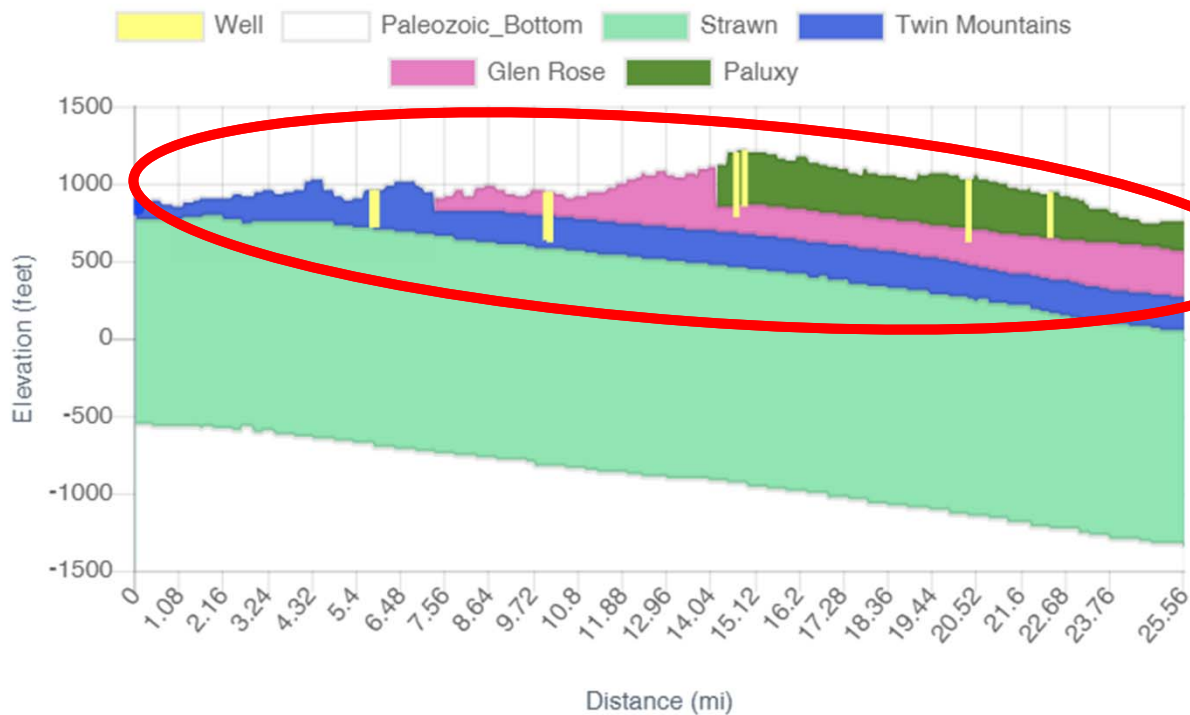


Figure 4.1.32 Dip-oriented cross section D2 showing stratigraphic boundaries, dominant lithologies, depths in feet, and downdip limits of freshwater in sandstone and shale layers.



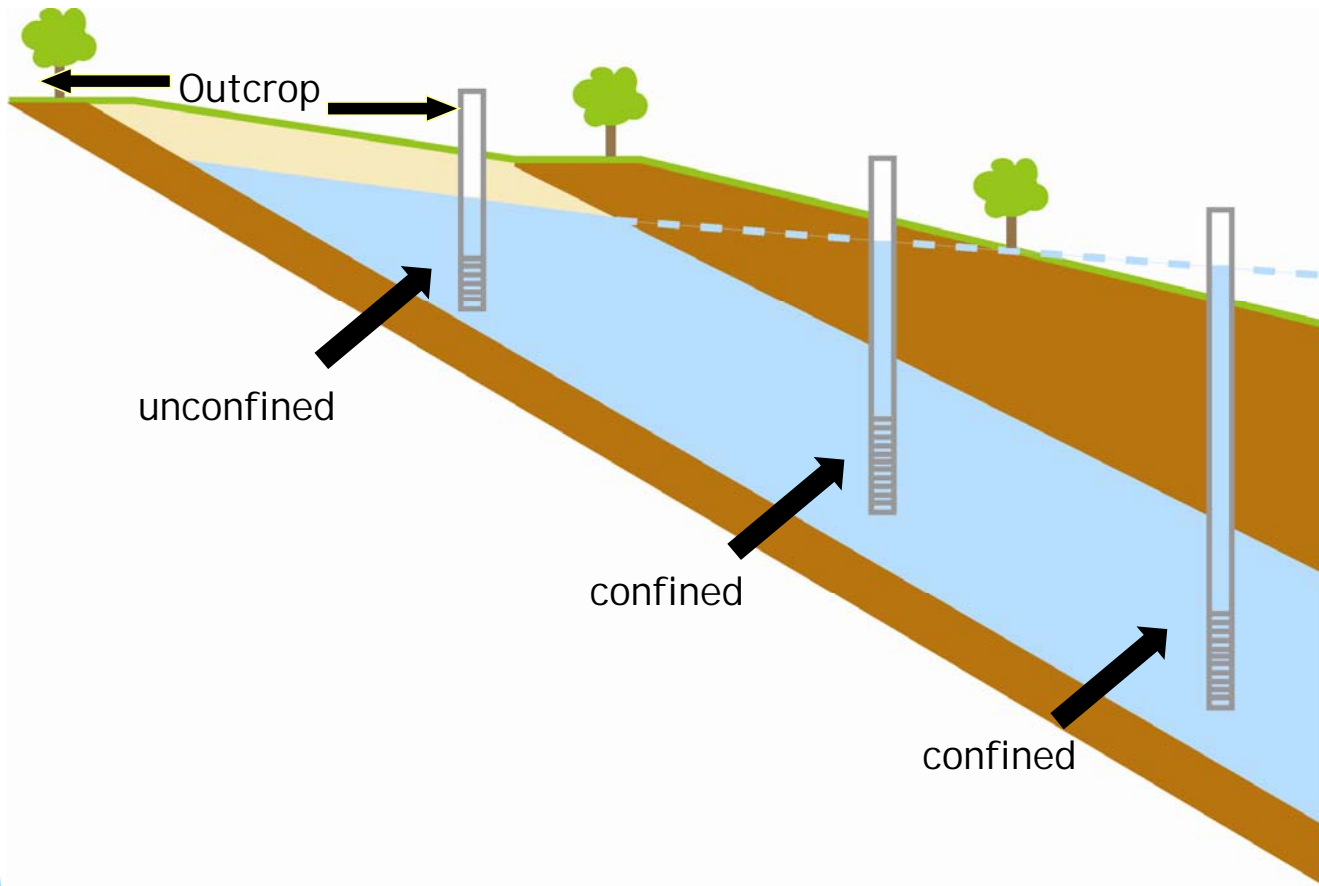
Geology of the Trinity Aquifer In Parker County

Cross Section





Geology of the Trinity Aquifer Confined & Unconfined





District Rules – Major Points

~20,000 registered exempt wells

- **All wells drilled after January 1, 2009, in the District must attain an approved registration prior to drilling.**
- **Wells exempt from permitting/metering/reporting include:**
 - All wells that are used solely for domestic, livestock, poultry or agricultural use.
 - Wells that does not have the capacity, as equipped to produce more than 17.36 gallons per minute - and is not a public retail utility well.
 - Minimum 2 acres to drill any new well
 - smaller tracts are acceptable if they were lawfully configured prior to January 1, 2009, as a tract less than 2 acres in size and do not have access to water from a PWS.
 - Subject to spacing requirements, both from other wells and property lines.



District Rules - Non-Exempt Wells

- All non-exempt wells must:
 - Register with the District
 - Obtain a permit - adopted August 2019
 - Report monthly production
- Two types of permits:
 - Historic Use Permit
 - Applies to wells that are currently approved or in operation
 - Based on maximum historic use for well or well system
 - Operating Permit
 - Applies to future wells
 - Based on allocation of GW related to surface acreage owned or controlled by the applicant

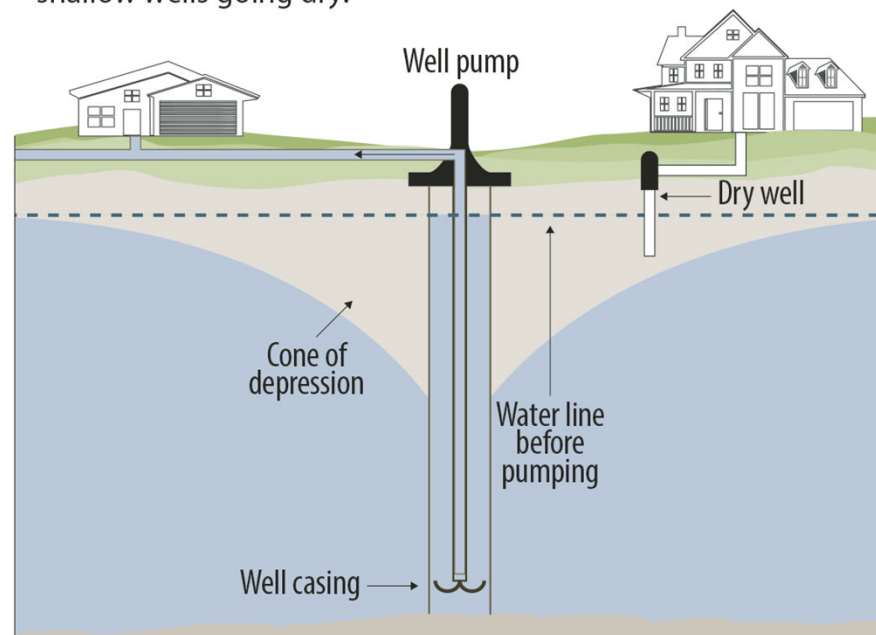


District Rules – Spacing Requirements

Maximum Allowed Well Production	Minimum Tract Size	Spacing from Other Well Sites	Spacing from Property Line
The maximum amount of groundwater the well can actually produce as equipped in gallons per minute (gpm).	The minimum tract size that may be considered an appropriate site for a well.	The minimum distance, in feet, that a new well or proposed well site may be located from an existing registered or permitted well, existing unregistered well identified by the General Manager under Rule 4.3(b), or approved well site.	The minimum distance, in feet, that a new well or proposed well site may be located from the nearest property line of the tract of land on which it is to be located.
<17.36 gpm	Minimum Tract Size is 2 acres.	150 ft.	50 ft.
17.36 - 30 gpm		500 ft.	150 ft.
30 - 50 gpm		1,000 ft.	250 ft.
50 - 80 gpm		1,750 ft.	500 ft.
80 - 100 gpm		2,500 ft.	750 ft.
>100 gpm		3,250 ft.	1,000 ft.

A cone of depression

Large water withdrawals from an aquifer can lower the water table and create a “cone of depression” that can result in shallow wells going dry.



SOURCE: MOUNT PLEASANT WATERWORKS AND U.S. GEOLOGICAL SURVEY

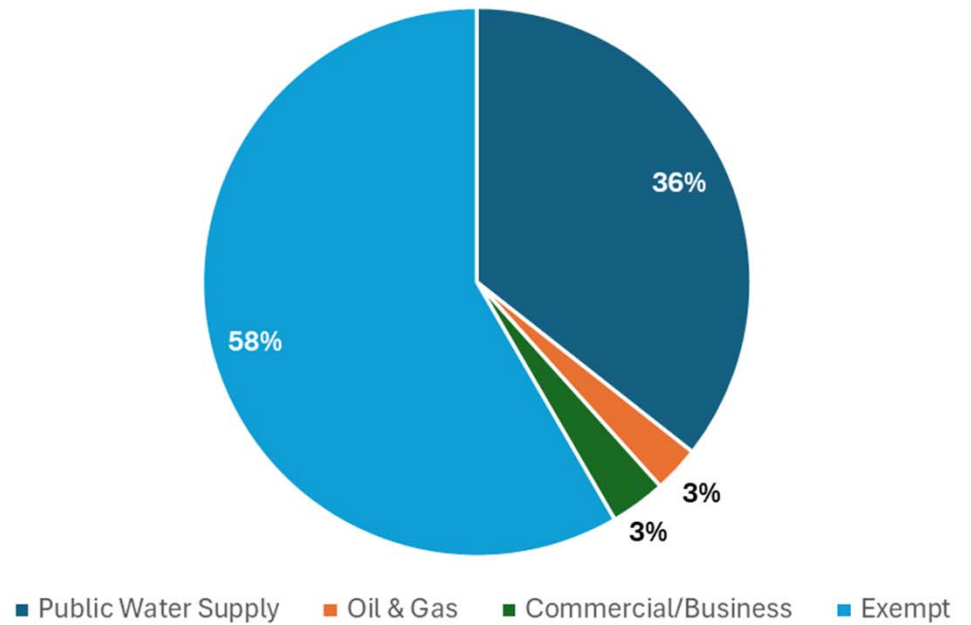
STAFF



Groundwater Production

Public Water Supply	Gallons Reported	Category Percentage
Hood	1,538,750,215	36.27%
Montague	108,588,761	2.56%
Parker	1,223,608,381	28.84%
Wise	759,321,945	17.90%
Total:	3,630,269,302	85.57%
Oil & Gas Production	Gallons Reported	Category Percentage
Hood	0	0.00%
Montague	15,634,989	0.37%
Parker	7,046,819	0.17%
Wise	255,459,511	6.02%
Total:	278,141,320	6.56%
Commercial/Business	Gallons Reported	Category Percentage
Hood	122,904,252	2.90%
Montague	846,650	0.02%
Parker	190,195,005	4.48%
Wise	20,098,521	0.47%
Total:	334,044,428	7.87%
2023 Grand Total:	4,242,455,049	

Water Use by Category - 2023





New Wells Drilled

- The largest user of Groundwater are **privately owned domestic wells**(exempt use)
- Processed
 - **almost 2,000 new well applications** in 2021
 - **almost 2,300 new well applications** in 2022
 - **Almost 1,600 new well applications** in 2023
- Approximately **98%** of these new wells are for exempt domestic use – growth in Parker and Wise county is dominated by subdivisions that depend on private wells as the sole source of water.

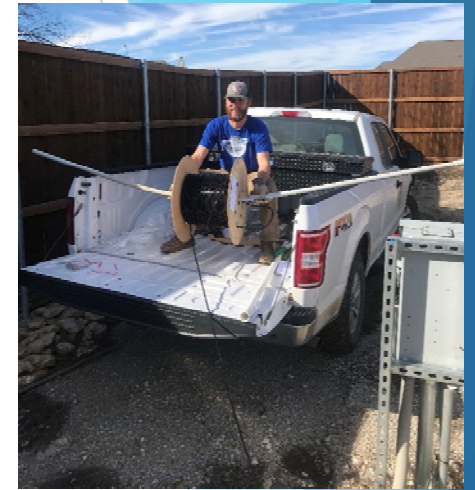
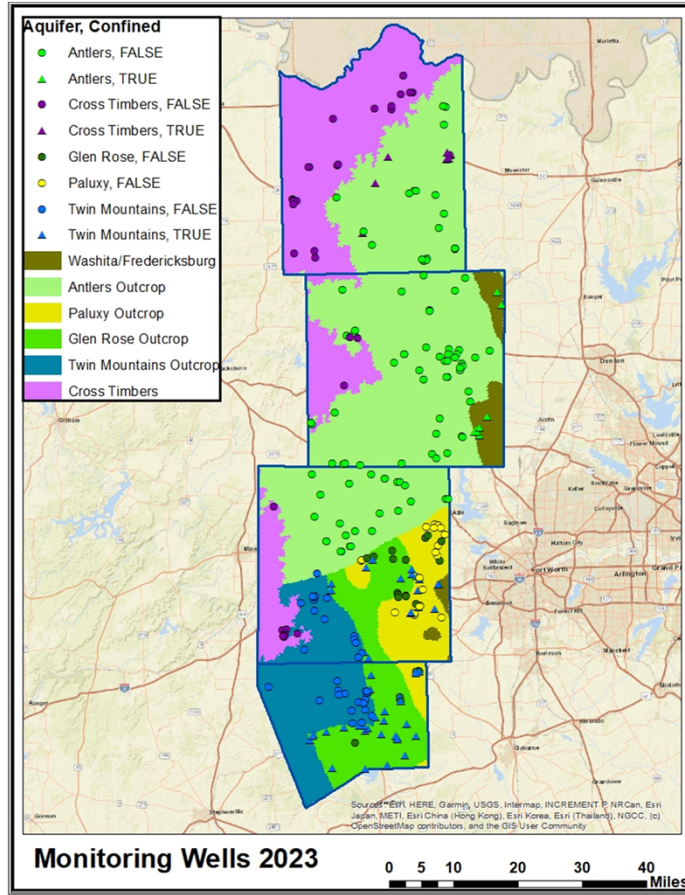
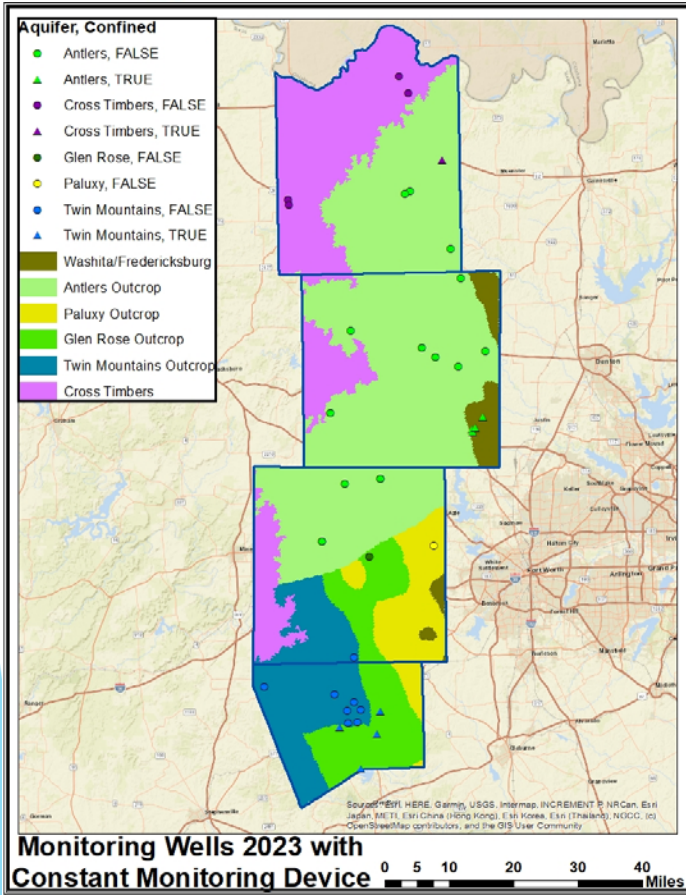
	New Well Registrations Submitted in 2021	
	Exempt Wells	Non-Exempt Wells
Hood	117	4
Montague	180	0
Parker	1,154	10
Wise	526	4

	New Well Registrations Submitted in 2022	
	Exempt Wells	Non-Exempt Wells
Hood	162	2
Montague	216	2
Parker	1,316	13
Wise	510	13

	New Wells Registrations Submitted in 2023	
	Exempt Wells	Non-Exempt Wells
Hood	133	9
Montague	177	1
Parker	784	10
Wise	425	9



UTGCD Monitoring Well Program

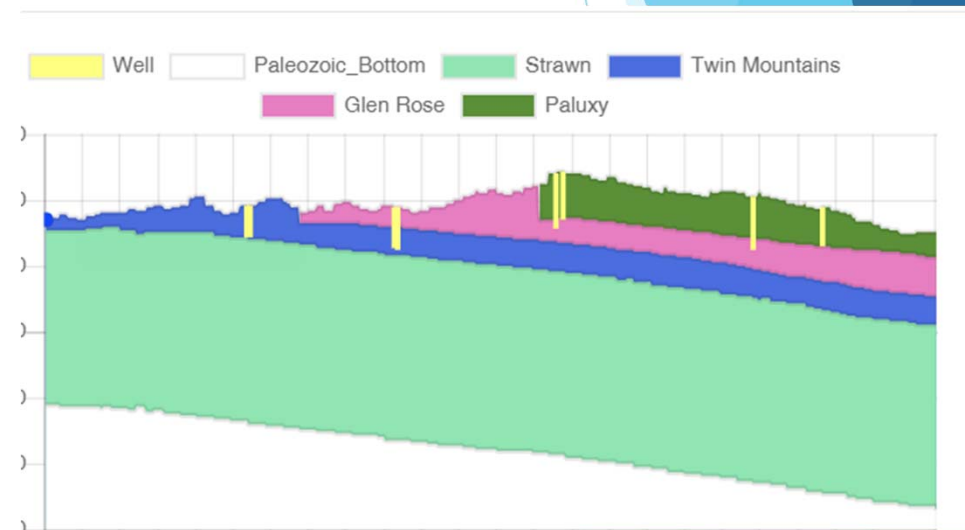




UTGCD Monitoring Well Program

Water Level Changes: From UTGCD 2023 Annual Report		
	1-year Change	Cumulative Change (2010 to Present)
Antlers	-3.9	-4.3
Paluxy	-3.8	-12.4
Glen Rose	-1.6	-2.4
Twin Mountains - O	-4.9	-4.6
Twin Mountains - S	-1.1	-8.7

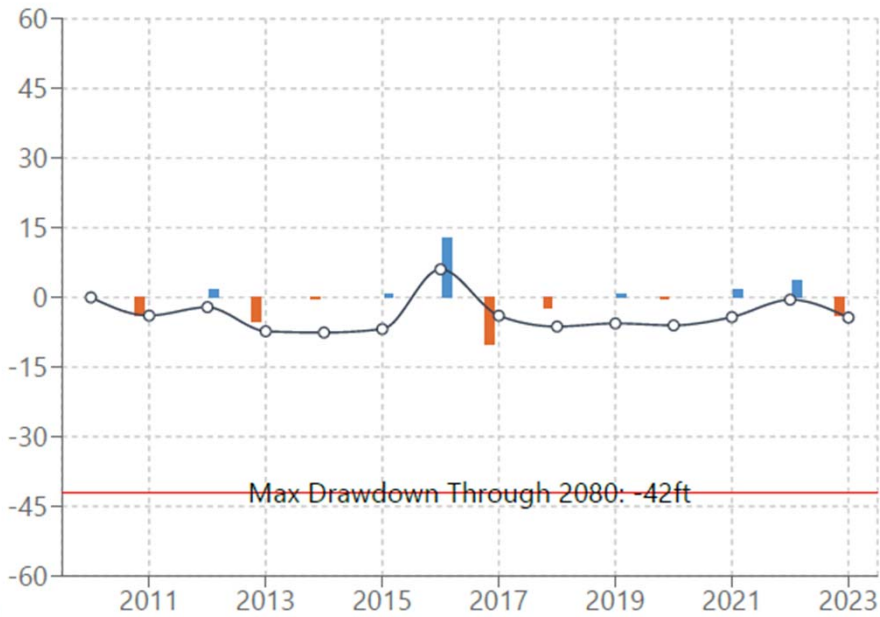
Note: All values are in feet of water level change. Positive values indicate a water level rise. Negative Values indicate a water level decline





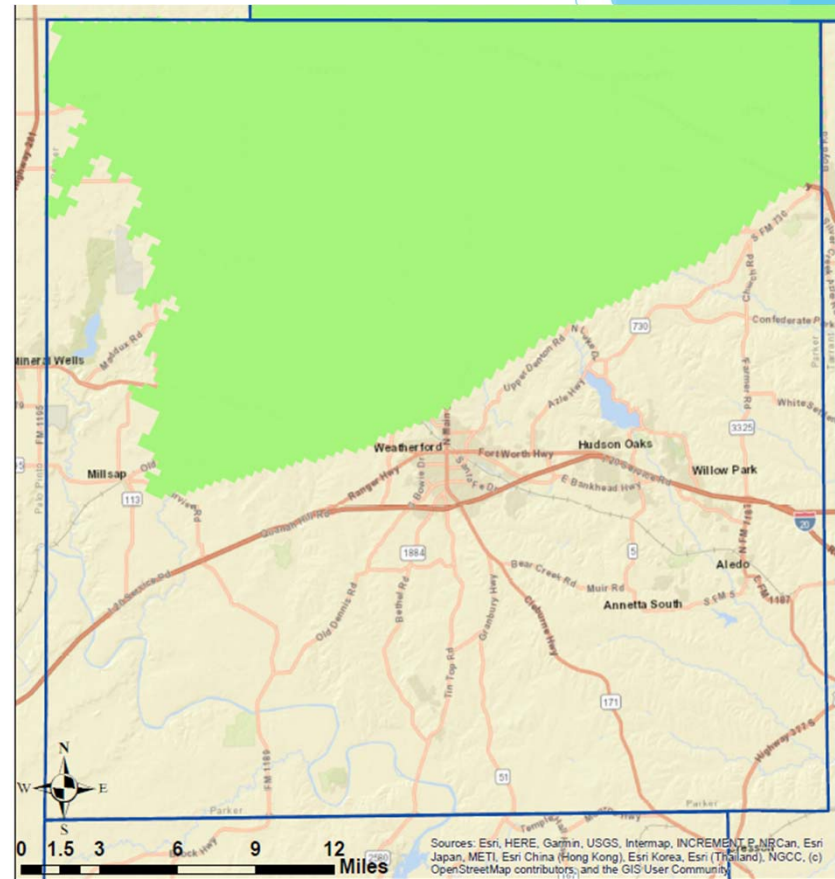
UTGCD Monitoring Well Program

Parker County-Antlers-Outcrop



■ Drawdown
 ■ Water Level Rise
 ○ Cumulative Change

Cumulative Water Level Change (2010 to Present) -4.3



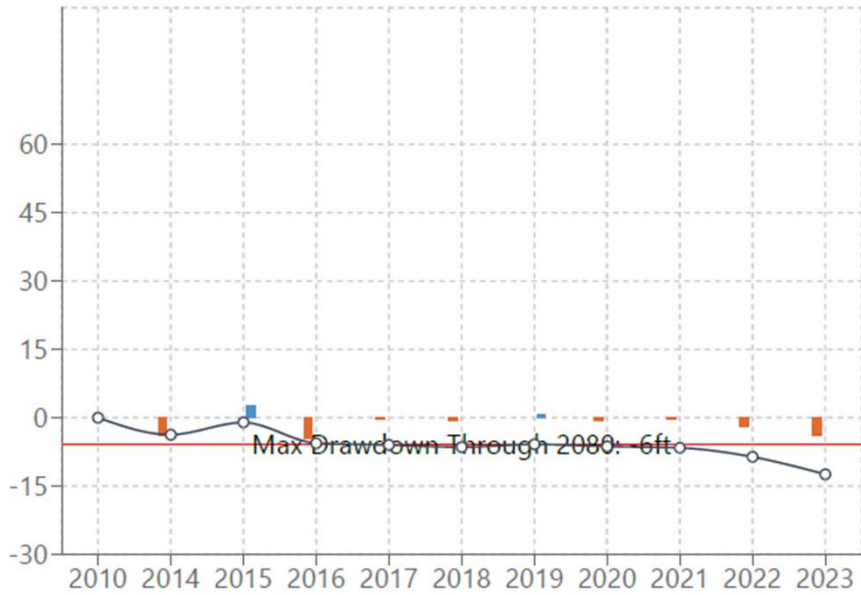
Parker County Antlers

UTGCD OUTLINE



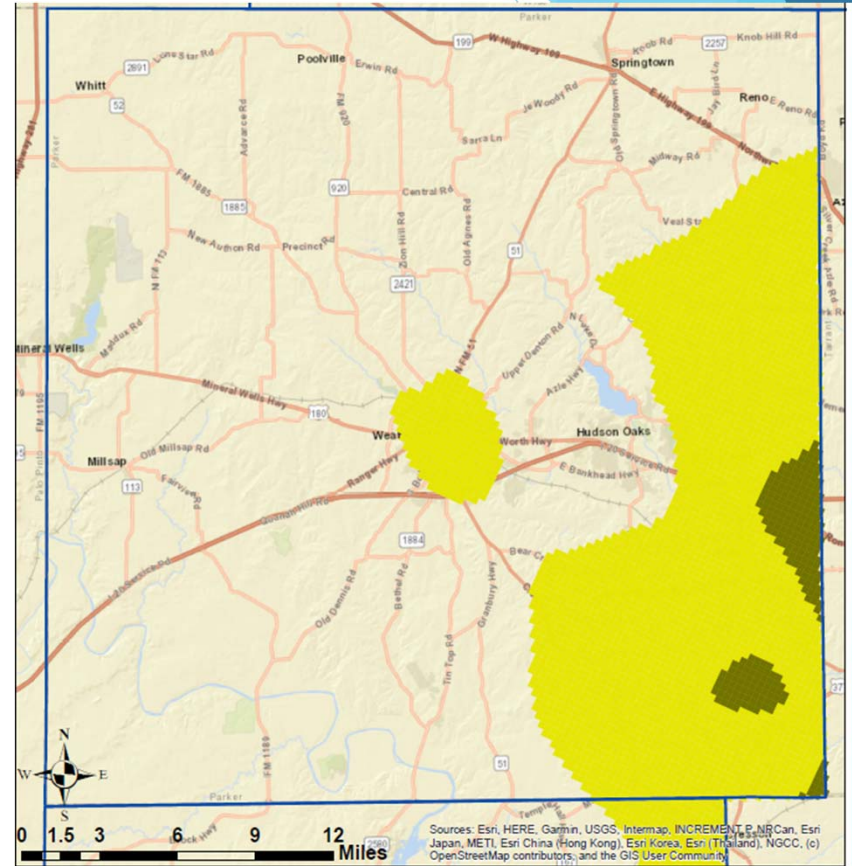
UTGCD Monitoring Well Program

Parker County-Paluxy-Outcrop



■ Drawdown
 ■ Water Level Rise
 ○ Cumulative Change

Cumulative Water Level Change (2010 to Present) -12.4



Parker County Paluxy

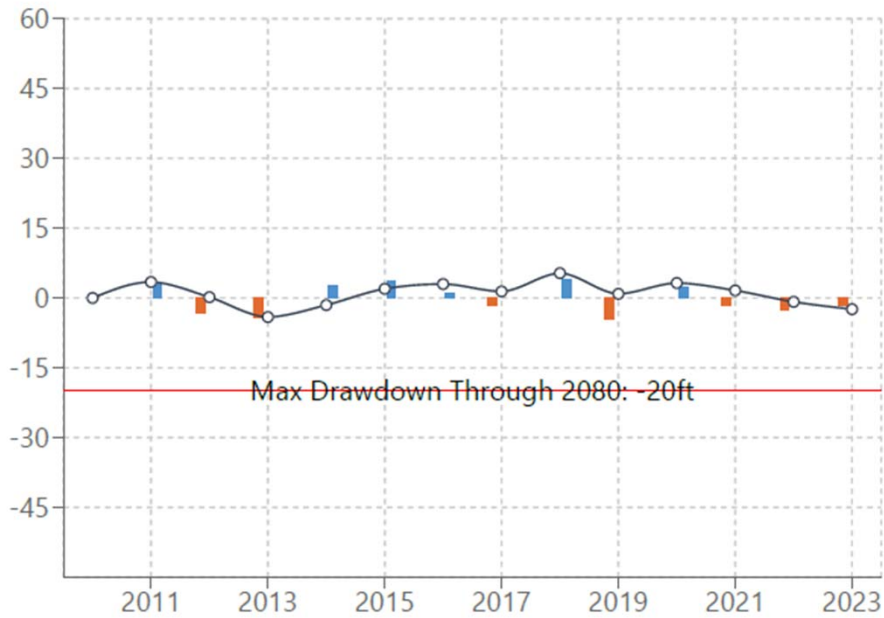
UTGCD OUTLINE

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community



UTGCD Monitoring Well Program

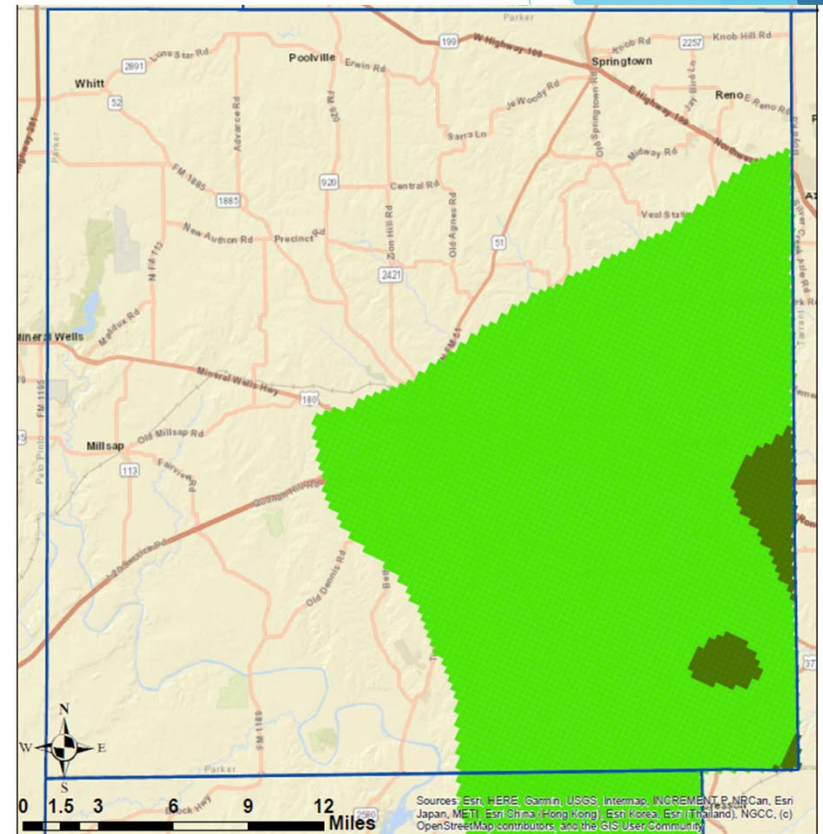
Parker County-Glen Rose-Outcrop



Max Drawdown Through 2080: -20ft

■ Drawdown ■ Water Level Rise ◯ Cumulative Change

Cumulative Water Level Change (2010 to Present) -2.4



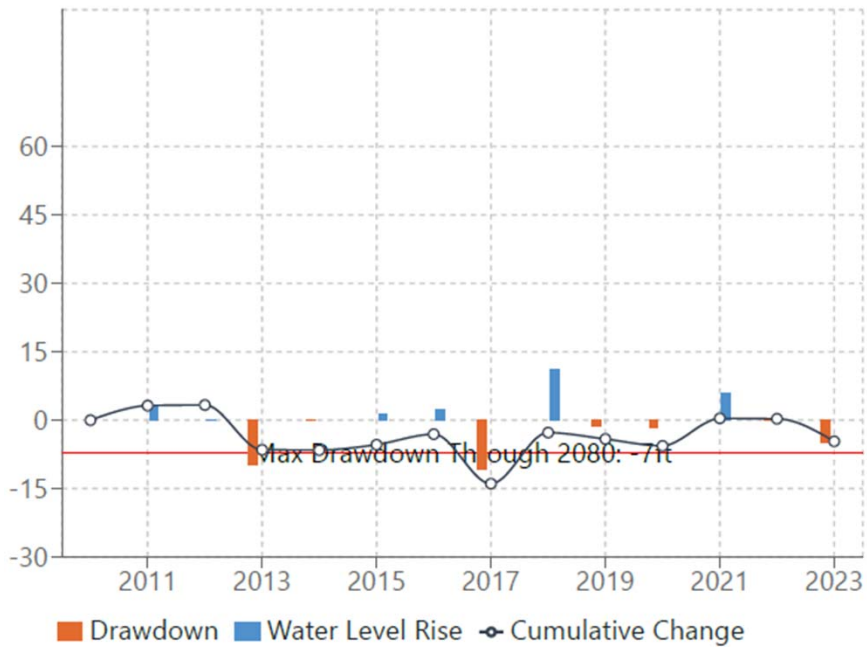
Parker County Glen Rose

□ UTGCD OUTLINE



UTGCD Monitoring Well Program

Parker County-Twin Mountains-Outcrop



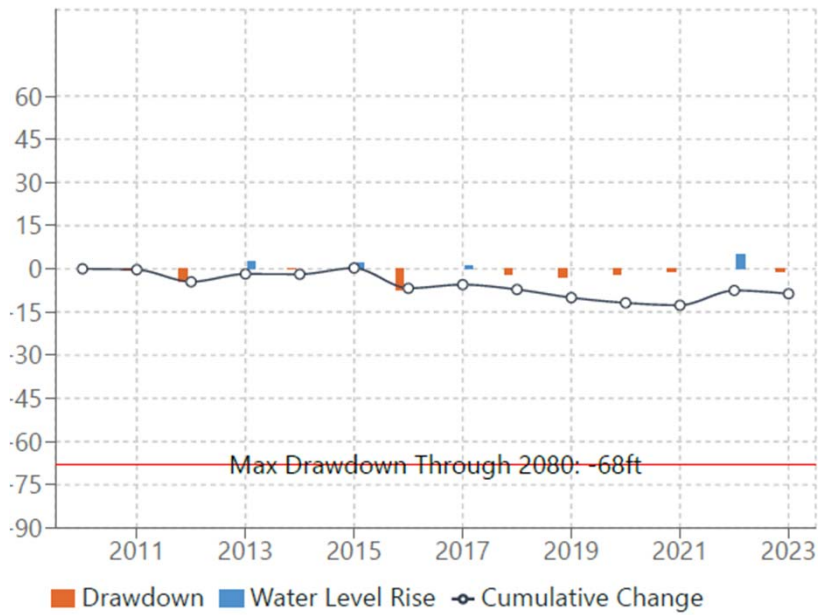
Cumulative Water Level Change (2010 to Present) -4.6



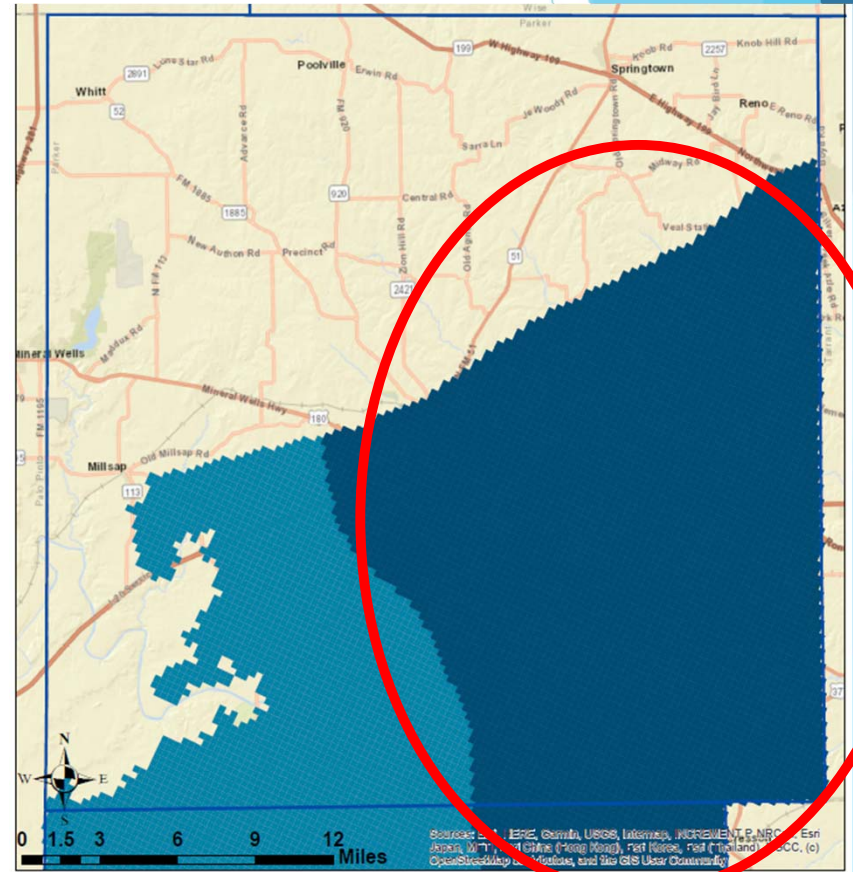


UTGCD Monitoring Well Program

Parker County-Twin Mountains-Subcrop



Cumulative Water Level Change (2010 to Present) -8.7



Parker County Twin Mountains UTGCD OUTLINE



Parker/Wise County Water Study

The primary goals of this study were to understand the demands within the study area, evaluate future water supply solutions, and propose a potential implementation guide for a more sustainable future.

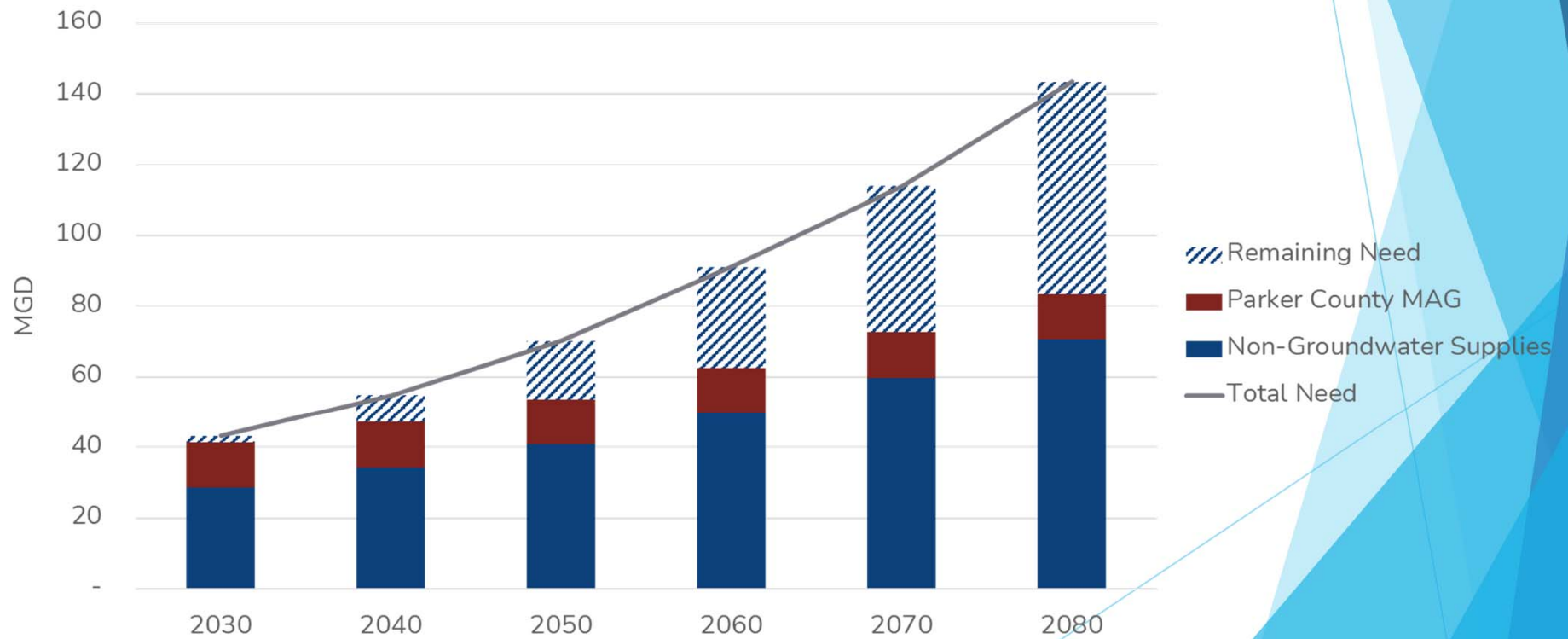
Main Issues:

- Unsustainable Demand on Groundwater
- Little Incentive to Connect to Public Water Supply Systems
- Difficulties Connecting to Existing Infrastructure
- Limited Alternate Supplies Available
- Funding
- Culture Shift
- Groundwater Conservation District Limitations



Parker/Wise County Water Study

NEEDS SUMMARY





Parker/Wise County Water Study

Primary Recommendation was the development of a Regional Entity to provide water to future development:

- **Utilize existing regional-level entity or create a new one focused on this region**
 - Depends on public opinion and existing water providers
 - Existing public water systems could participate in the formation of a new regional entity
- **Surface water is vital to the future of supplies in the area**
 - It is impractical for each groundwater-based public water system to create its own surface and/or brackish water treatment systems
 - Cost effective to build one large, single-treatment plant operated by a regional entity
- **Several existing regional water suppliers were formed in a similar fashion**
 - NTMWD, TRWD, UTRWD, etc.
- **One regional entity can demonstrate the need to develop water for a much larger service area**
 - Streamlines decision-making and implementation of large projects



Parker/Wise County Water Study

Water User Actions

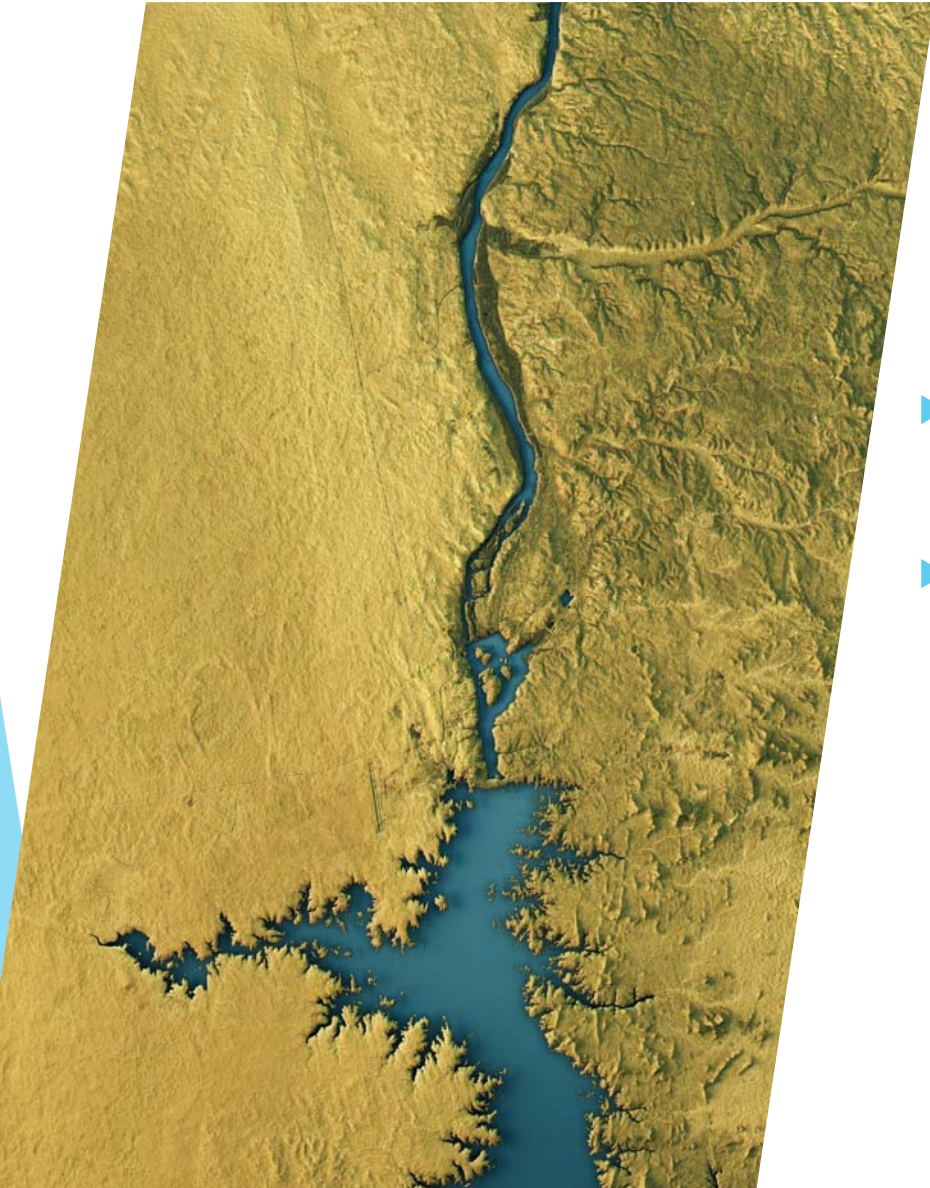
- **Conservation and Drought Measures**
 - Reduces demand without needing to procure an alternate water source, however, requires culture shift
- **Rainwater Harvesting**
 - Particularly beneficial in rural areas that are not connected to a public water system
- **Reuse**
 - A large portion of the region is served by septic systems. Transitioning these areas to wastewater service could potentially generate a source of water for reuse
- **Transition of Rural Areas into Public Water Systems**
 - A public water system has dedicated resources whose goal is to provide water supplies for the future



Parker/Wise County Water Study

County Actions

- **Groundwater Study Requirements**
 - Local government code allows for the county to adopt requirements for a groundwater study and groundwater availability certification.
 - The county can adopt requirements because they are located within a PGMA.
 - It is recommended that the county adopt their own requirements for groundwater studies to ensure that groundwater supplies are protected.
- **Interlocal Agreement with UTGCD to Review and/or Oversee GAC**
 - UTGCD has a highly qualified team of experts that is available to the county as a resource.
 - Several nearby counties have already entered an interlocal agreement with their respective GCDs to review and/or oversee the GAC study.
 - The counties can leverage this expertise by allowing UTGCD staff to review the Certification Statement and ensure that the study was thoroughly completed.

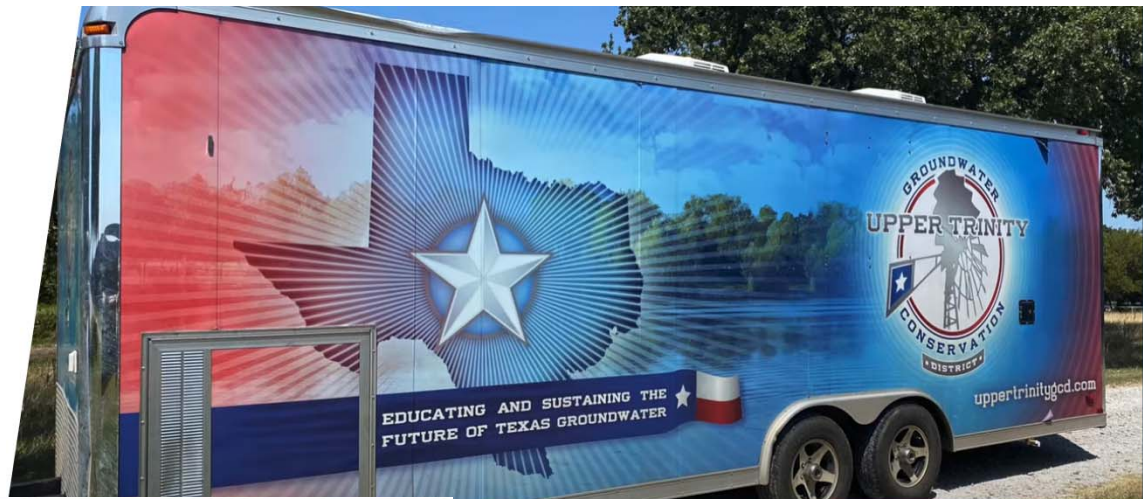


Senate Bill 2440

- ▶ Municipalities and counties shall require a person filing a plat application to certify adequate groundwater availability for that subdivision.
- ▶ The bill allows.....a waiver.....if the municipality or county determines, **based on credible evidence, that there is sufficient groundwater available and will continue to be available** and either:
 - ▶ (1) the entire tract will be supplied with water from the Gulf Coast Aquifer or the Carrizo Wilcox aquifer, or
 - ▶ (2) the proposed subdivision will divide the tract into not more than 10 lots.



Public Education



GEOL. GEOLOGIC HISTORY & HABITATS OF NORTH TEXAS

HYDROGEOLOGIC CHARACTERISTIC	GROUP	FORMATIONS	GENIUS
WATER-BEARING	WASHITA	ALLUVIAL DEPOSITS	GENO
CONFINING UNIT (LOCAL PRODUCTIVE)	FREDERICKSBURG	DENTON	FORT WORTH
CONFINING UNIT (LOCAL PRODUCTIVE)	COCOMACHEAN	GOODLAND	SUCK CREEK
AQUIFER	TRINITY	EDWARDS	KLAMICKI
WATER-BEARING	BOHATE	COMANCHE PLUM	
WATER-BEARING	OSAGE	WALNUT CLAY	
WATER-BEARING	CANYON	ANTLER	PALLY
WATER-BEARING	WICHITA	OLEN ROSE	THIN MOUNTAINS
WATER-BEARING	STRAWN	ROCKS	
		ANDERSON CITY	
		HANBERRY	
		THIRTY & BURNHAM UNCOVERED	
		COOKY CREEK SHALE	
		BAMBER	
		VENTONER	
		JAGER CREEK	
		EMCO RIDGE LIMESTONE	
		WILSON POINT	
		PAJO PINTO	
		MARSHAL WELLS	
		BRADDO RIVER	
		MINGUS	
		BLUE CREEK SANDSTONE	
		GRANDSTONE CREEK	
		LAZY BEND	





Rainwater Harvesting Annual Grant Program

Rainwater Harvesting Grant Program

sponsored by the Upper Trinity Groundwater
Conservation District

Catch free water for everyday needs - see who qualifies!

- Cities, Counties, and Municipalities
- MUD's, SUD's, ESD's, VFD's
- Schools & non-profit organizations

Apply Today!

Application Period:
October 1st - February 29th
application online - scan the QR Code



Questions? Chat with us online @ [uppertrinitygcd.com](https://www.uppertrinitygcd.com)

Send applications to
jill@uppertrinitygcd.com
or to P.O. Box 1749
Springtown, TX 76082.
Call 817-523-5200 for details



The screenshot shows the website header with the logo and navigation menu: GAC REVIEW, RESOURCES, RULES, STAFF, MEETINGS, MAPS, EDUCATION, FINANCIALS, FORMS & FEES, DATES, CONTACT US. The main heading is 'RAINWATER HARVESTING GRANTS'. Below it, a paragraph states: 'The Upper Trinity Groundwater District recently voted on and approved the addition of an annual rainwater harvesting grant program, available to eligible entities within the four district counties. Applicants will need to submit all necessary materials before the application window deadline, and finalists will be contacted before the grantees are selected.' The page lists several links: 'GRANT APPLICATION MATERIALS', 'RAINWATER HARVESTING APPLICATION', 'RAINWATER GRANT SCORING CRITERIA 2023', 'GRANT VIDEO GUIDE & FAQ', and 'SAMPLE FINANCIAL ESTIMATE'. On the right side, there is a weather widget for Springtown, TX, showing 63°F and clear sky, and a 'SAFE DRINKING WATER INFORMATION' widget from EPA Envirofacts.



Rainwater Harvesting Annual Grant Program - 2023

Parker County Precinct 3
Brock, Texas



Central Community Fire Department
Weatherford, Texas





Rainwater Harvesting Annual Grant Program - 2024

➤ Grant Recipients:

- Parker County Precinct 3
- Parker County Sheriff's Posse
- City of New Fairview
- Slidell ISD
- City of Paradise





Questions?

Doug Shaw

General Manager

Upper Trinity Groundwater Conservation District

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