

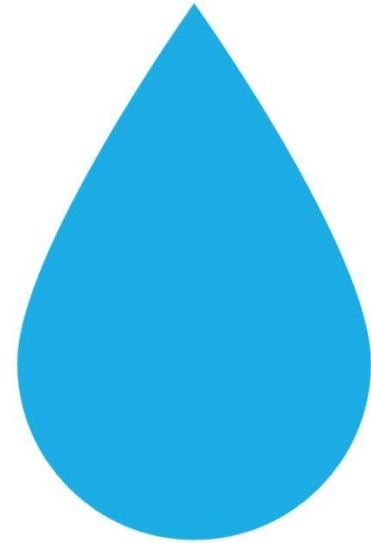


2024 Annual Report

March 12th, 2026
Board of Directors Meeting

RED RIVER
GROUNDWATER CONSERVATION DISTRICT

Goal 1:
Providing the
Most Efficient
Use of Water



Exempt Wells Registered with the District

Use	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Total
<i>Agriculture</i>	4	3	1	5	5	0	0	2	0	1	2	0	1	24
<i>Commercial</i>	2	2	0	0	0	2	4	4	2	1	1	1	3	22
<i>Domestic</i>	46	61	40	69	65	66	68	50	67	71	95	60	60	818
<i>Golf Course</i>	0	2	0	1	0	0	0	0	0	0	0	0	0	3
<i>Industrial</i>	0	0	0	0	0	0	0	0	0	0	2	2	1	5
<i>Irrigation</i>	1	1	1	0	1	0	1	0	1	0	2	2	0	10
<i>Livestock</i>	6	9	7	9	4	4	1	2	1	6	1	1	0	51
<i>Monitoring</i>	8	0	2	0	0	1	0	12	0	0	0	0	0	23
<i>Oil / Gas</i>	1	3	1	0	0	0	0	0	0	0	0	0	0	5
<i>Other</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Public Water</i>	41	9	1	0	0	1	1	0	0	6	0	0	0	59
<i>Surface Impoundments</i>	1	1	4	2	1	2	2	1	0	0	2	3	0	19
Total	110	91	57	86	76	76	77	71	71	85	105	69	66	1040

Non-exempt Wells Registered with the District

Use	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Total
<i>Agriculture</i>	9	4	4	0	0	0	2	1	2	1	9	1	0	33
<i>Commercial</i>	3	0	0	1	1	1	2	1	3	0	0	0	0	12
<i>Domestic</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Golf Course</i>	7	5	0	0	0	0	0	0	0	0	0	0	0	12
<i>Industrial</i>	0	0	0	0	0	0	0	0	0	2	0	1	0	3
<i>Irrigation</i>	0	0	1	0	0	0	0	0	1	0	0	0	0	2
<i>Livestock</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	1
<i>Monitoring</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Oil / Gas</i>	4	6	0	0	2	1	0	0	0	0	0	0	0	13
<i>Other</i>	0	0	0	0	0	0	0	0	0	1	0	0	1	2
<i>Public Water</i>	182	23	1	0	2	2	5	3	1	0	4	5	3	231
<i>Surface Impoundments</i>	1	0	0	4	1	0	0	1	2	1	4	0	1	15
Total	206	38	7	5	6	4	9	6	9	5	17	7	5	324

Wells Registered with the District

Use	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Total
<i>Agriculture</i>	13	7	5	5	5	0	2	3	2	2	11	1	1	57
<i>Commercial</i>	5	2	0	1	1	3	6	5	5	1	1	1	3	34
<i>Domestic</i>	46	61	40	69	65	66	68	50	67	71	95	60	60	818
<i>Golf Course</i>	7	7	0	1	0	0	0	0	0	0	0	0	0	15
<i>Industrial</i>	0	0	0	0	0	0	0	0	0	2	2	3	1	8
<i>Irrigation</i>	1	1	2	0	1	0	1	0	2	0	2	2	0	12
<i>Livestock</i>	6	9	8	9	4	4	1	2	1	6	1	1	0	52
<i>Monitoring</i>	8	0	2	0	0	1	0	12	0	0	0	0	0	23
<i>Oil / Gas</i>	5	9	1	0	2	1	0	0	0	0	0	0	0	18
<i>Other</i>	0	0	0	0	0	0	0	0	0	1	0	0	2	3
<i>Public Water</i>	223	32	2	0	2	3	6	3	1	6	4	5	3	290
<i>Surface Impoundments</i>	2	1	4	6	2	2	2	2	2	1	6	3	1	34
Total	316	129	64	91	82	80	86	77	80	90	122	76	71	1364

Well Inspections During 2024

2024 Well Inspections

Month	Fannin	Grayson	Total
January	0	16	16
February	3	10	13
March	5	23	28
April	2	27	29
May	0	11	11
June	0	14	14
July	1	7	8
August	0	6	6
September	0	10	10
October	5	2	7
November	1	22	23
December	0	3	3
Total	17	151	168

<i>Year</i>	<i>Fannin</i>	<i>Grayson</i>	<i>Total</i>
2010	6	25	31
2011	5	25	30
2012	7	10	17
2013	6	30	36
2014	5	10	15
2015	6	8	14
2016	7	10	17
2017	6	9	15
2018	5	11	16
2019	3	9	12
2020	5	23	28
2021	7	35	42
2022	7	35	42
2023	6	41	47
2024	9	45	54



Wells in District Monitoring Program



Percentage of Registered Non-Exempt Wells Meeting Reporting Requirements

Year	Percentage Meeting Reporting Requirements
2017	88%
2018	92%
2019	96%
2020	89%
2021	90%
2022	93%
2023	91%
2024	95%

Late Fees and Payments

2024	Late Fee	Late Payment
Number of Occurrences	60	52
% of Accounts with 1+ Occurrence	4%	3%
Amount Paid	8700	3312.96

Percentage of Registered Non-Exempt Wells Inspected Annually

Number of Exempt wells inspected (as of December 31, 2024)

County	Number of Wells Inspected (2024)	Total Number of Completed Wells*	%
Fannin	4	311	1%
Grayson	35	588	6%
Total	39	899	4%

Number of Non-Exempt wells inspected (as of December 31, 2024)

County	Number of Wells Inspected (2024)	Total Number of Completed Wells*	%
Fannin	13	90	14%
Grayson	92	228	40%
Total	105	318	33%

Year	Fannin	Grayson	Total
2012	1,083	9,568	10,651
2013	2,648	12,492	15,140
2014	2,621	12,739	15,360
2015	2,960	12,313	15,274
2016	2,973	11,750	14,723
2017	2,661	11,683	14,344
2018	3,143	16,521	19,664
2019	3,455	12,912	16,367
2020	3,454	13,398	16,851
2021	3,758	13,097	16,856
2022	4,981	14,582	19,562
2023	4,442	14,876	19,318
2024	4,454	16,226	20,679
Average	3,279	13,243	16,522

Non-Exempt Production by County (All Production is in Acre-Feet)



Non-Exempt Production by Aquifer (All Production is in Acre-Feet)

Year	River Alluvial	Trinity (Antlers)	Trinity (Paluxy)	Washita Group	Woodbine
2012	28	6,155	13	98	4,357
2013	31	7,387	131	218	7,373
2014	35	6,839	148	204	8,134
2015	125	7,169	276	139	7,566
2016	81	6,547	180	161	7,754
2017	47	6,703	248	145	7,200
2018	50	7,499	398	131	11,585
2019	201	6,511	221	120	9,315
2020	213	6,839	246	120	9,433
2021	254	6,981	289	121	9,211
2022	334	7,806	394	132	10,897
2023	249	7,810	388	73	10,799
2024	327	8,348	363	59	11,582
Average	152	7,123	253	132	8,862

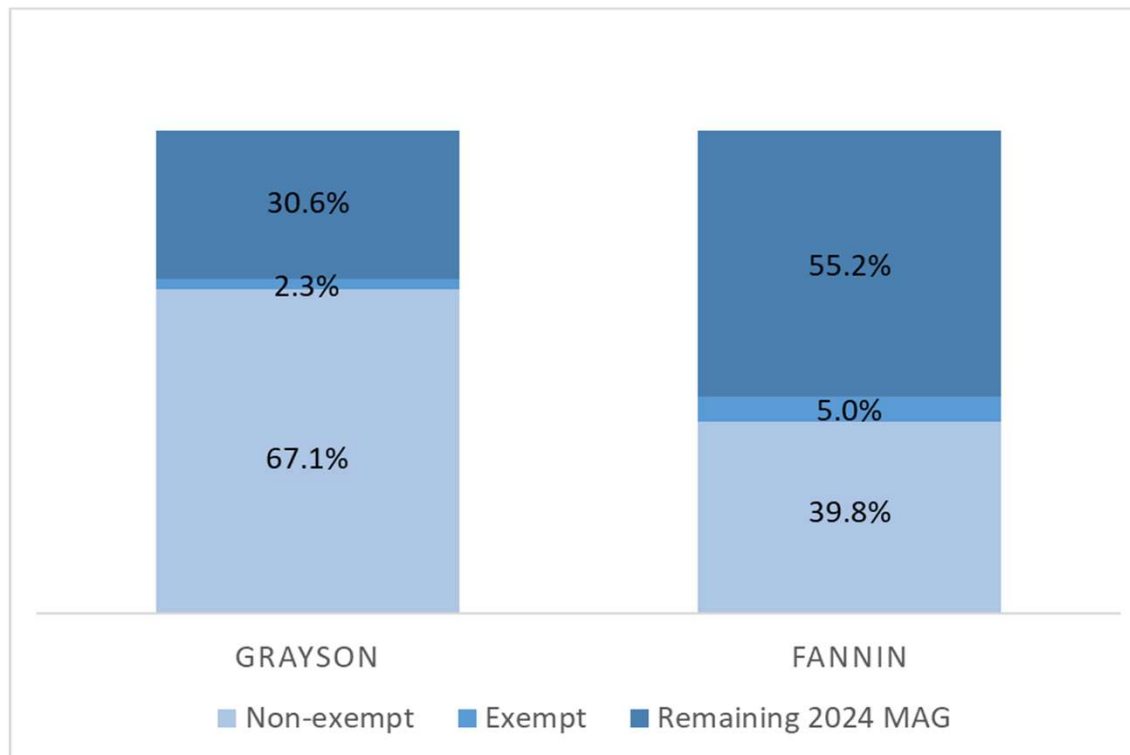
Non-Exempt Production by Use (All Production is in Acre-Feet)

Use	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Average
<i>Public Water</i>	10,092	13,562	13,354	13,715	13,045	13,072	18,325	15,063	14,953	15,159	17,220	16,872	17,769	14,785
<i>Agriculture</i>	517	1,042	1,115	853	1,100	1,032	1,043	1,040	1,549	1,326	1,661	1,872	2,432	1,276
<i>Commercial</i>	0	0	0	0	50	4	37	47	120	165	257	176	89	73
<i>Golf Course</i>	0	364	590	606	373	148	197	157	152	160	168	172	161	250
<i>Industrial</i>	0	0	0	0	0	0	0	0	0	0	0	15	48	5
<i>Irrigation</i>	0	0	0	3	4	3	5	4	3	3	6	5	4	3
<i>Livestock</i>	0	0	0	11	0	0	0	0	0	0	2	2	1	1
<i>Monitoring</i>	42	66	151	63	15	62	40	26	41	0	8	0	0	40
<i>Oil / Gas</i>	0	103	105	1	130	4	0	0	0	0	1	2	2	27
<i>Other</i>	0	0	0	0	0	0	0	0	0	0	95	30	0	10
<i>Surface Impoundments</i>	0	3	45	22	6	19	18	31	33	42	143	172	174	54

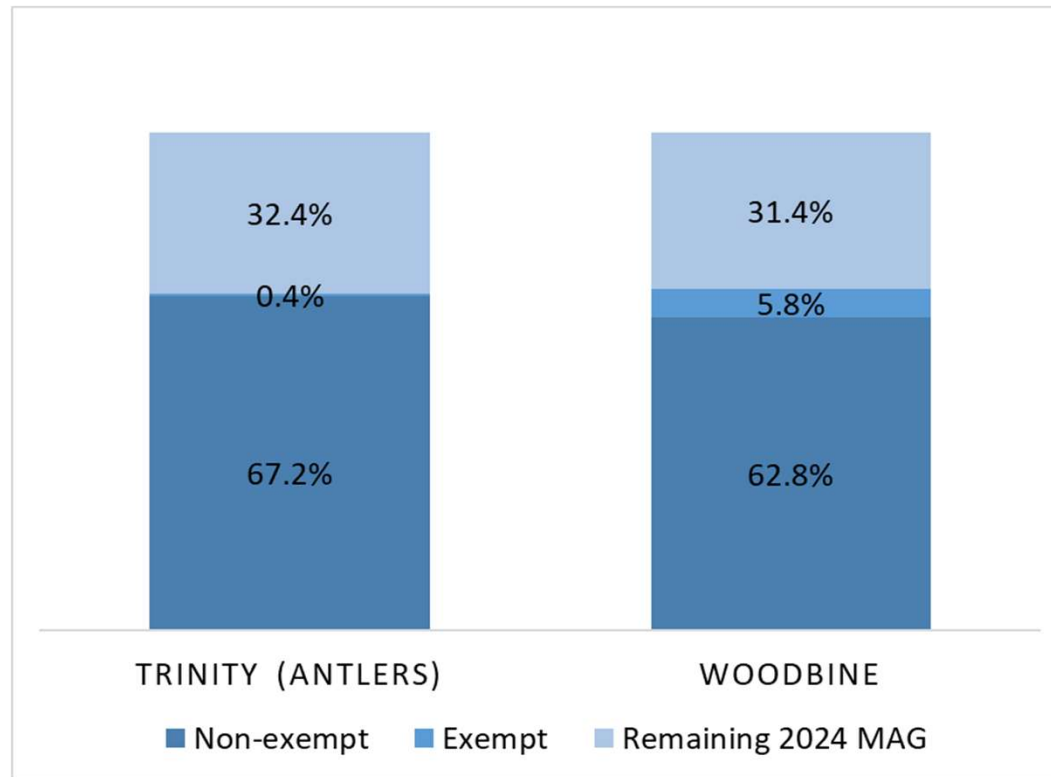
Estimated Exempt Production (All Production is in Acre-Feet)

<i>Use</i>	<i>Active Wells</i>	<i>Estimated Production (Ac-ft)</i>	<i>3x Estimated Production (Ac-ft)</i>	<i>Methodology</i>
<i>Agriculture</i>	19	366	1098	Average time pumping per day of 2 hours Assumed average consumption is 150 gallons per day
<i>Commercial</i>	19	4	12	Assumed average consumption is 150 gallons per day
<i>Domestic</i>	743	149	446	Assumed average consumption is 150 gallons per day
<i>Golf Course</i>	2	3	8	Average time pumping per day of 2 hours
<i>Irrigation</i>	9	23	69	Average time pumping per day of 2 hours
<i>Livestock</i>	45	315	945	Average time pumping per day of 6 hours
<i>Oil / Gas</i>	3	8	24	Average time pumping per day of 2 hours
<i>Surface Impoundments</i>	16	141	423	Average time pumping per day of 2 hours
Total	896	1009	3025	

Average Production Compared to 2024 MAG by County



Average Production Compared to 2024 MAG by Aquifer



Permits Approved by the Board



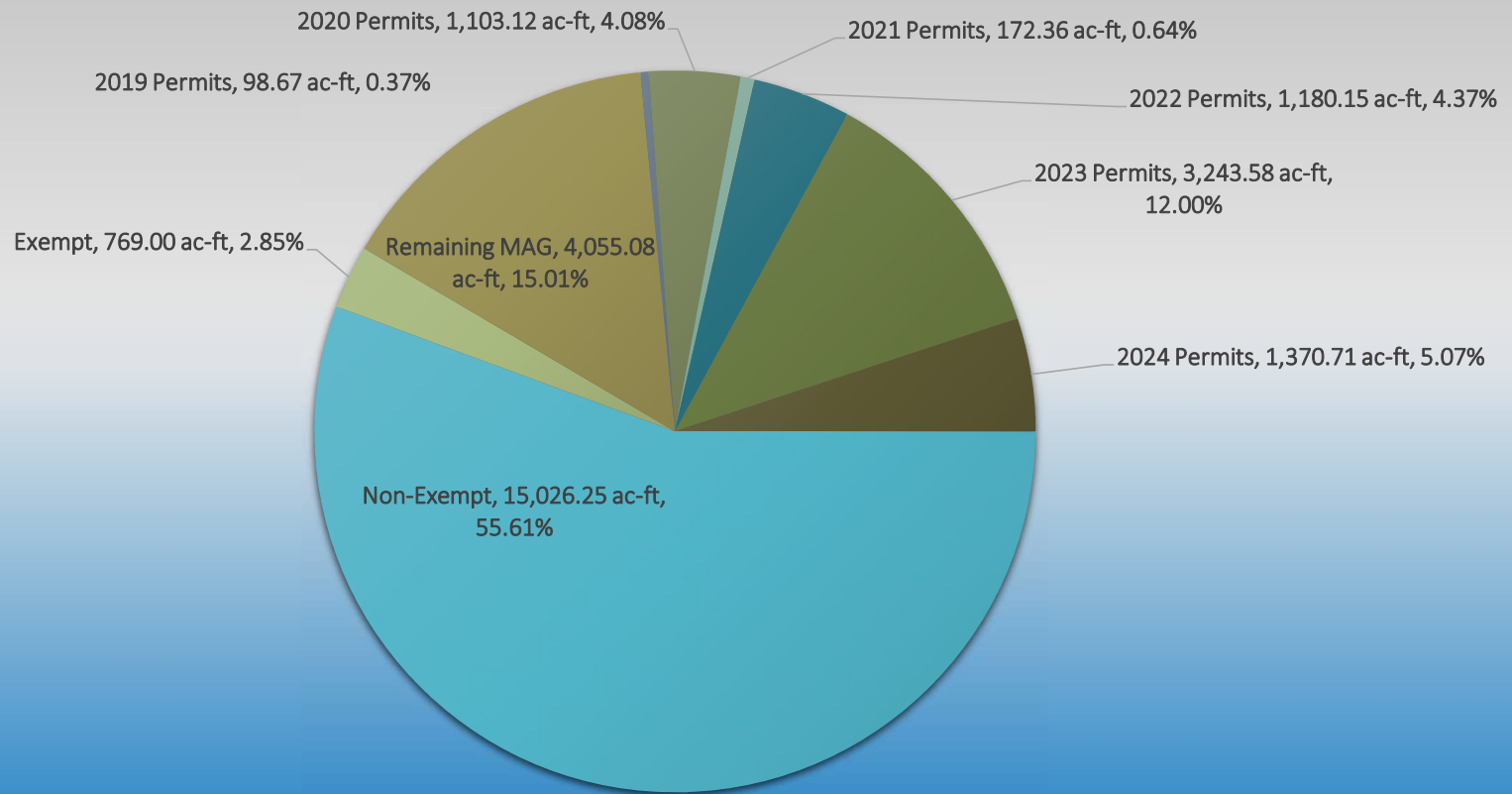
Year	New Permits	# of Wells	Requested Amount (gal)
2022	15	32	384,551,969
2023	8	20	1,056,922,972
2024	9	15	446,647,030
Total	32	67	1,888,121,971

Aquifer	2022	2023	2024
Trinity (Antlers)	4	5	2
Woodbine	9	3	7
Total	13	8	9

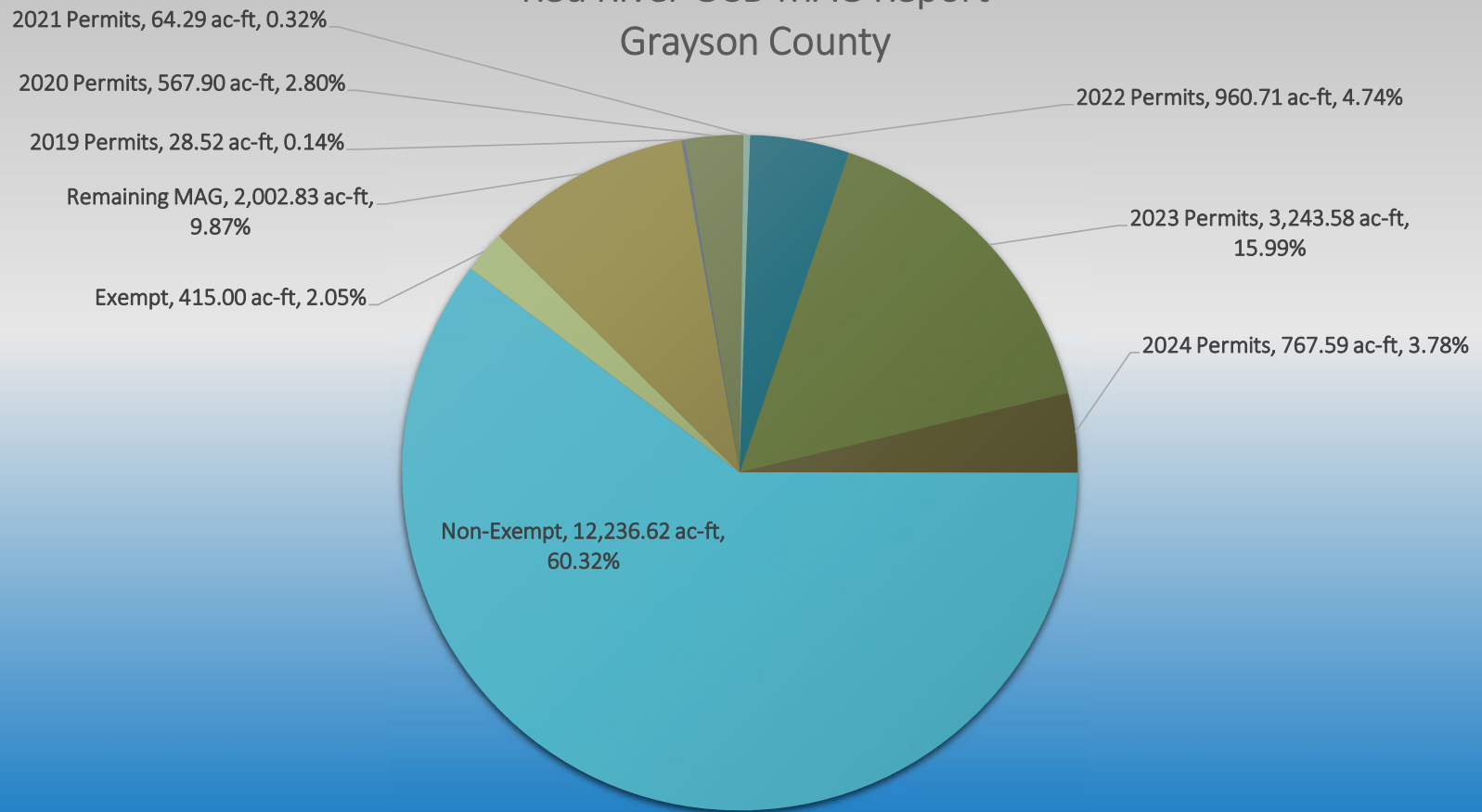
Permits Approved by the Board

Use	2022	2023	2024
Agriculture	3	1	3
Surface Impoundments	8	0	0
Concrete Production	0	0	1
Construction	0	0	1
Fire Suppression	0	0	0
Landscape Irrigation	0	1	0
Oil/Gas	0	0	0
Public Water	4	2	3
Livestock	0	1	0
Industrial	0	3	0
Lift Station Maintenance	0	0	1
Total	15	8	9

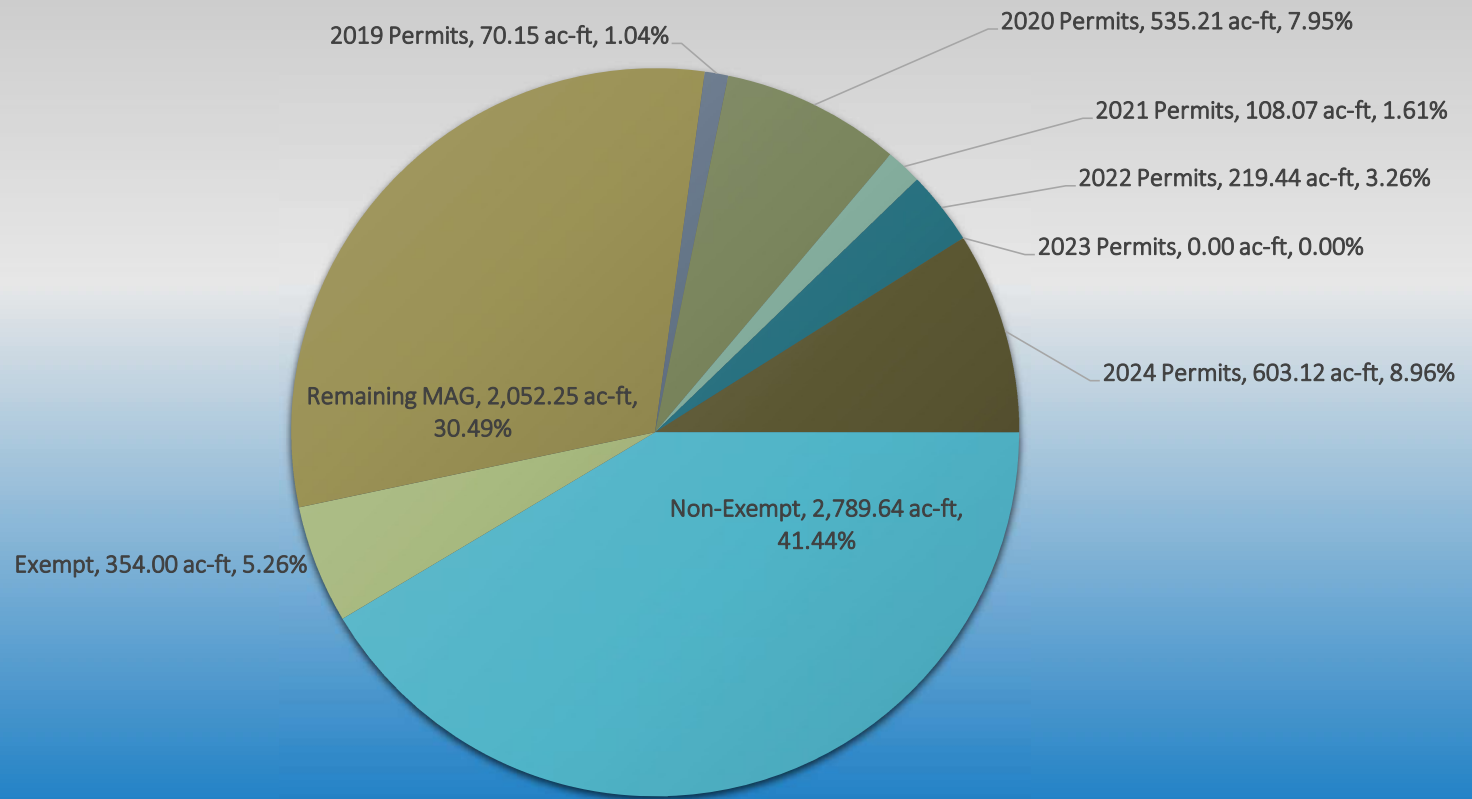
Red River GCD MAG Report District Wide



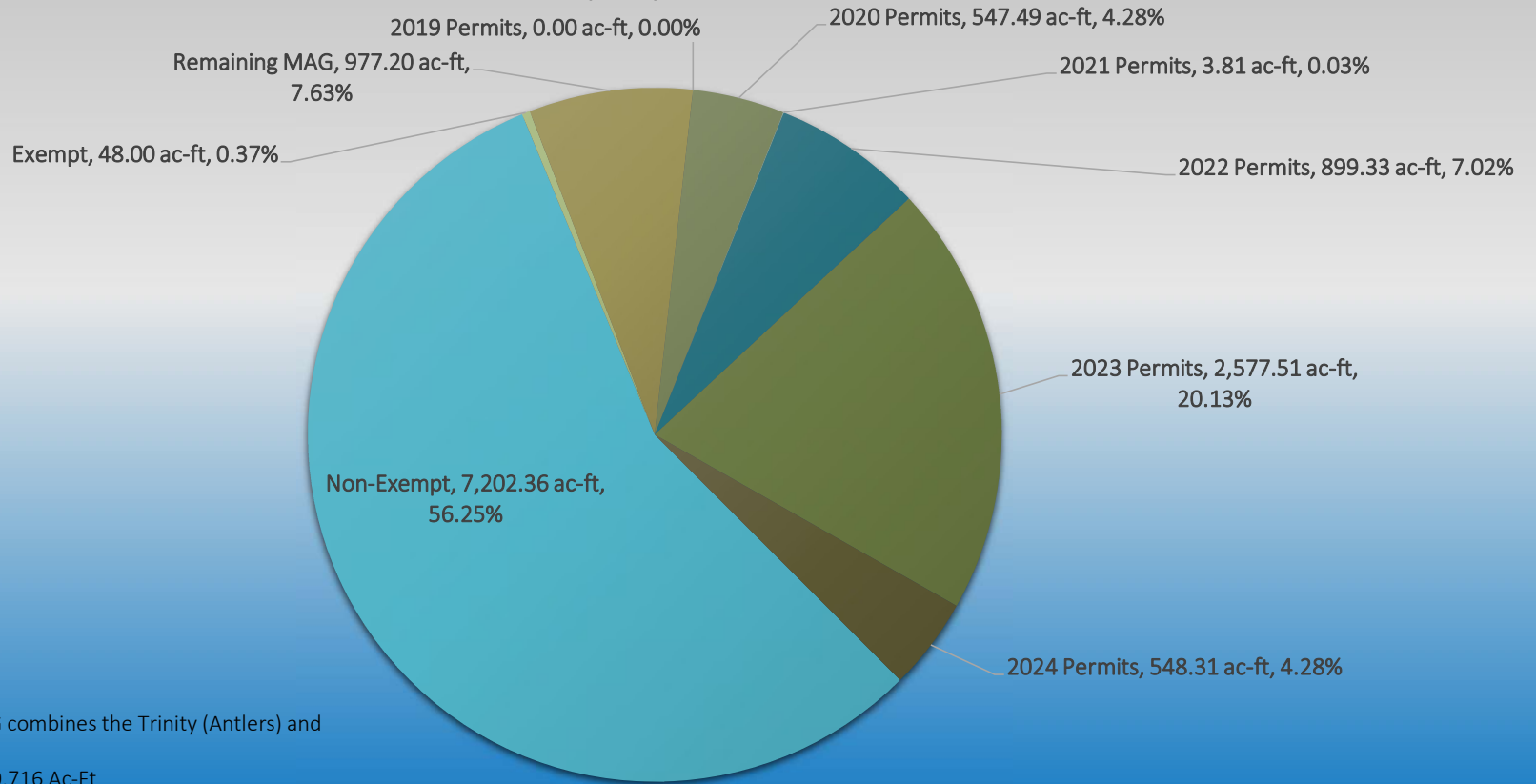
Red River GCD MAG Report Grayson County



Red River GCD MAG Report Fannin County



Red River GCD MAG Report Trinity Aquifer

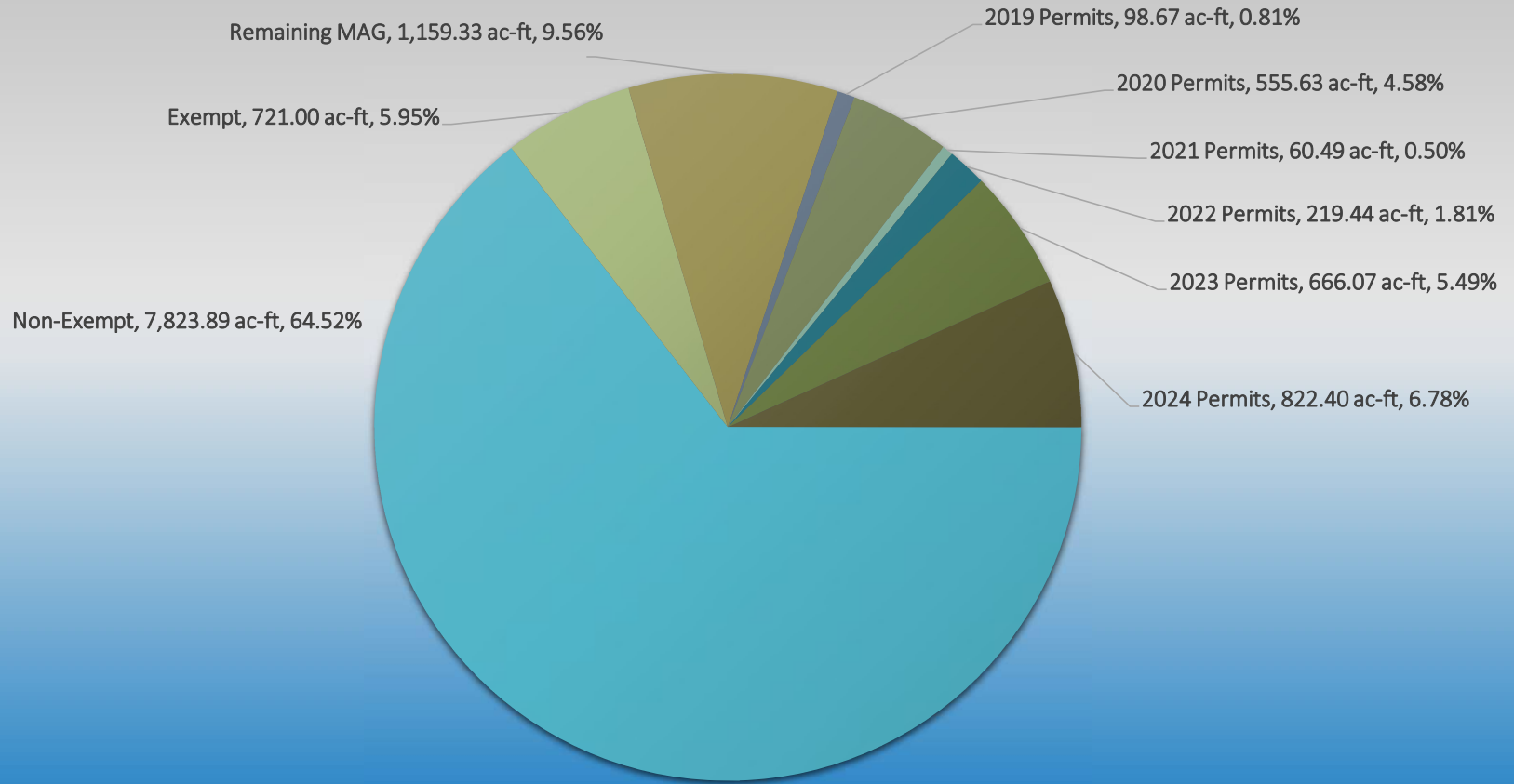


Note: Trinity Aquifer MAG combines the Trinity (Antlers) and Trinity (Paluxy) MAG.

Trinity (Antlers) MAG = 10,716 Ac-Ft

Trinity (Paluxy) MAG = 2,088 Ac-Ft

Red River GCD MAG Report Woodbine



Actual Production vs Permitted Amount

2024

Approved Permits	6
Permitted Amount	243,840,304
Annual Production	123,655,164
Percentage	51%

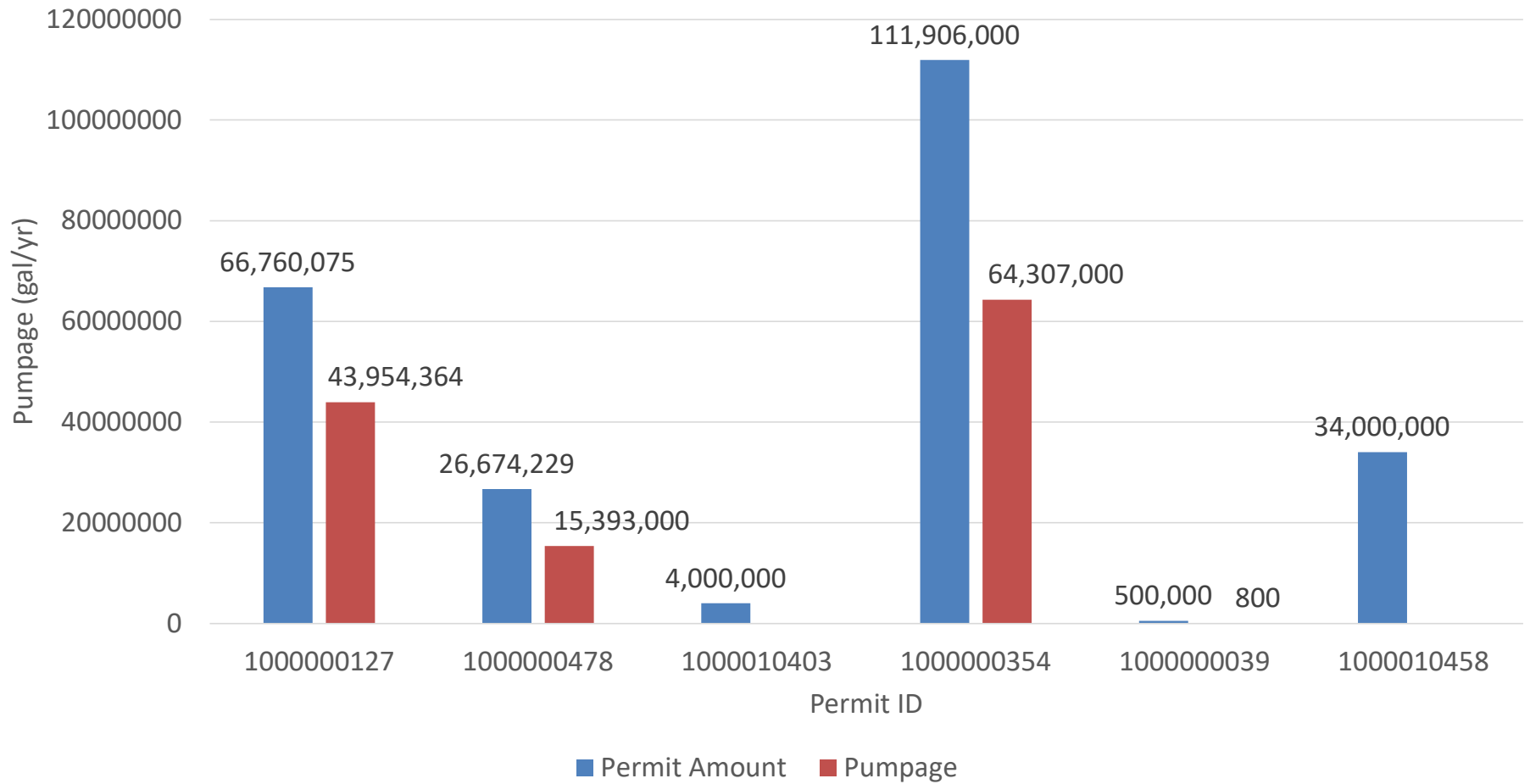
2023

Approved Permits	9
Permitted Amount	1,080,664,681
Annual Production	718,176,821
Percentage	66%

2022

Approved Permits	8
Permitted Amount	486,773,649
Annual Production	439,174,799
Percentage	90%

Pumpage vs Permit Amount





Goal 2:
Controlling and
Preventing Waste
of Groundwater

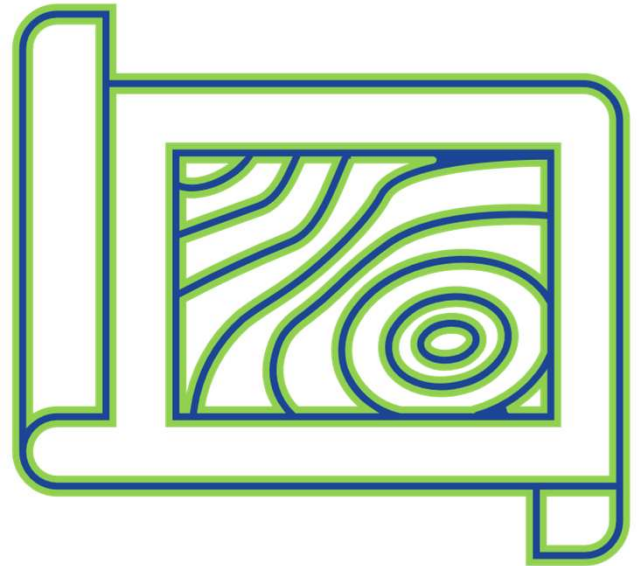
Total Fees Paid and Groundwater Usage Based on the Fees Paid

Year	Total Fees Paid	Total Groundwater Used (gallons)
2016	\$303,474.94	4,331,070,580
2017	\$302,897.59	4,327,108,428
2018	\$337,667.83	4,823,826,143
2019	\$357,879.11	5,112,558,714
2020	\$343,835.00	4,911,928,571
2021	\$329,155.00	5,063,923,077
2022	\$352,855.19	5,428,541,385
2023	\$369,222.02	5,680,332,781
2024	\$393,618.96	6,055,670,252
Average	\$343,400.63	5,081,662,215

Violations and Investigations of Potential Waste of Groundwater

- 1 owner accounting for 1 violation
- No reports of potential waste

Goal 3: Controlling and Preventing Subsidence



Due to the geology of the Northern Trinity/Woodbine Aquifers in the District, problems resulting from water level declines causing subsidence are not technically feasible and as such, a goal addressing subsidence is not applicable. The District's Hydrogeologist presented subsidence information to the Board of Directors in 2019.



Goal 4: Addressing
Conjunctive
Surface Water
Management Issues

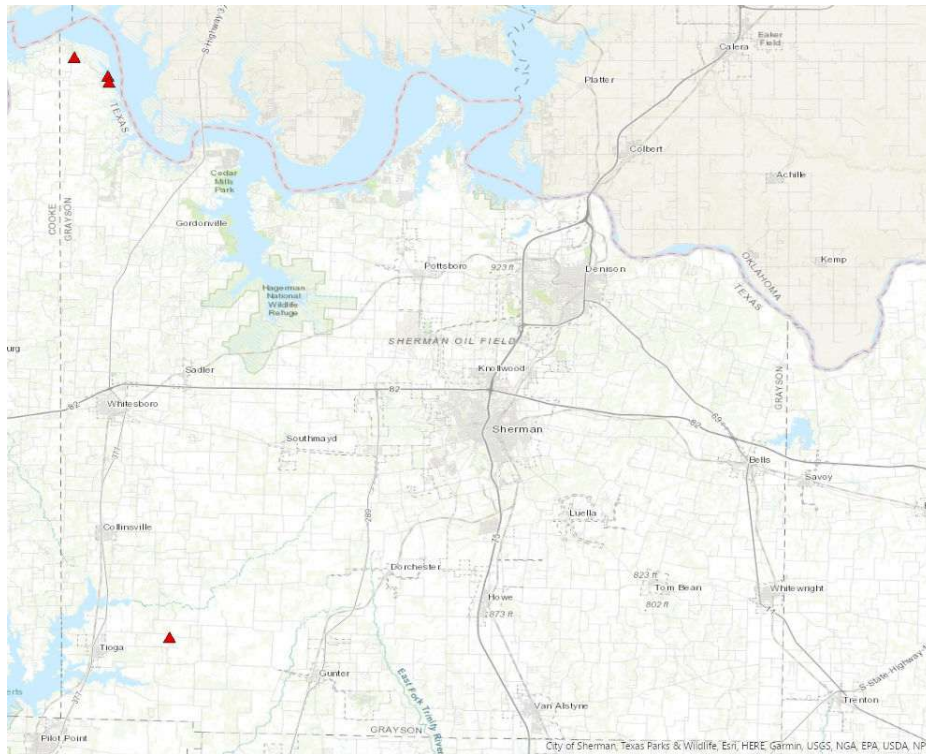
Region C and GMA 8

- Region C Water Planning Group held 4 meetings in 2024, on April 29th, September 30th, October 16th, and October 28th. General Manager Paul Sigle attended the meetings.
- Groundwater Management Area 8 (GMA 8) held 3 meetings in 2024, on May 15th, September 5th, and October 31st. General Manager Paul Sigle, Board Member David Gattis, and District Staff attended the meetings.

Goal 5:
Addressing
Natural Resource
Issues



Injection Wells



Four applications for injection wells were submitted in 2024 with no protest from the GCD



Goal 6: Addressing Drought Conditions



RRGCD Website

A large background image showing a tall, metal windmill in a field of tall grass. The scene is captured at sunset or sunrise, with a warm, golden glow on the horizon and a blue sky with scattered clouds. The windmill is positioned on the left side of the frame, and the field extends to the horizon.

**Protecting Today's Water,
Preserving Tomorrow's Future**

Our Mission

Established by the State Legislature in 2009, the Red River Groundwater Conservation District is



Goal 7: Addressing
Conservation, Recharge
Enhancement,
Rainwater Harvesting,
Precipitation
Enhancement, and
Brush Control



Water Conservation x +

www.redrivergcd.org/water-conservation.html 80%

Phone : (800) 256-0935 Fax: (903) 786-8211

RED RIVER
GROUNDWATER CONSERVATION DISTRICT

Home Page District Information Meetings Well Registration Report Usage Billing Contact Us More

Water Conservation

Links

- [Home Water Conservation Guide](#)
- [Home Water Works home water usage water calculator](#)
- [25 things you can do to save water](#)
- [How to Conserve Water in the Bathroom](#)
- [Home Intelligence At-Home Water Conservation Guide](#)
- [Drought Preparedness Council Situation Report](#)

Best Management Practices

- [TWDB Best Management Practices for Conservation](#)
- [Agricultural Best Management Practices](#)
- [Municipal Best Management Practices](#)
- [Wholesale Supplier Best Management Practices](#)
- 2011 Region C Water Plan - Chapter 4 - Identification, Evaluation, and Selection of Water Management Strategies ([4A](#), [4B](#), [4C](#), [4D](#), [4E](#), [4F](#), [4G](#), [4H](#))
- [Water Advisory Council Best Management Practices](#)

Brochures

- [A Watering guide for Texas Landscape](#)
- [Water Conservation for Industries, Businesses, and Institutions](#)
- [Water Conserving Tips](#)
- [Conserving Water Indoors](#)
- [Conserving Water Outdoors](#)
- [Agricultural Water conservation Irrigation Water Use Management Best Management Practices](#)
- [Agricultural Water Conservation Best Management Practices Overview](#)

Brochures In Spanish

- [Cuarenta Y Nueve Consejos Practicos Para Conservar Agua \(Forty-Nine Water Saving Tips\)](#)
- [Xeriscape \(Xeriscape - Principles and Benefits\)](#)
- [The Dillos Demonstrate Wordless Water Conservation](#)

Brush Control Links

- [State Water supply Enhancement Plan \(January 2017\)](#)
- [Texas State Soil and Water Conservation Board](#)
- [AgriLife Extension Texas A&M System Brush Control Program](#)

Rainwater Harvesting Links

- [TWDB Rainwater Harvesting Information](#)
- [Texas Water by Texas A&M](#)
- [TWDB Manual on Rainwater Harvesting](#)
- [Harvesting Rainwater with Rain Barrels](#)

Conservation Links of the District Website



Goal 8: Achieving Desired Future Conditions of Groundwater Resources

- Summary
- Woodbine Well Analysis
- Woodbine Spatial Analysis
- Paluxy Well Analysis
- Paluxy Spatial Analysis
- Glen Rose Well Analysis
- Glen Rose Spatial Analysis
- Antlers Well Analysis
- Antlers Spatial Analysis
- Twin Mountains Well Analysis
- Twin Mountains Spatial Analysis



Select County or entire GCD

GCD

DFC Summary for Slope Analysis

Aquifer	County	Adopted DFC (ft of Avg. Drawdown)	DFC Period (Years)	Annual DFC (ft/yr of Avg. Drawdown)	Current Trend (ft/yr of Avg. Drawdown)	Current Status (+ indicates value above DFC/ - indicates value below DFC)
Woodbine	GCD	278	60	-4.63	-0.72	3.91
Paluxy	GCD	671	60	-11.18	-6.38	4.8
Glen Rose	GCD	341	60	-5.68		
Antlers	GCD	290	60	-4.83	-2.78	2.05
Twin Mountains	GCD	569	60	-9.48	-7.11	2.37

DFC Summary for Spatial Analysis

Aquifer	County	Adopted DFC (ft of Avg. Drawdown)	DFC Period (Years)	Annual DFC (ft/yr of Avg. Drawdown)	Current Trend (ft/yr of Avg. Drawdown)	Current Status (+ indicates value above DFC/ - indicates value below DFC)
Woodbine	GCD	278	60	-4.63	13.11	17.74
Paluxy	GCD	671	60	-11.18	9.98	21.16

DFC Evaluation Tool

Current Aquifer Trends and DFC Status

Aquifer	County	Slope	Spatial
Trinity (Antlers)	Grayson	4.05	-23.42
Trinity (Antlers)	Fannin		-25.29
Trinity (Paluxy)	Grayson		
Trinity (Paluxy)	Fannin	12.1	
Woodbine	Grayson	3.93	2.2
Woodbine	Fannin	4.94	-46.72