# Grayson County Water Supply Planning Information & Resources

This document summarizes key water supply planning information for Grayson County and highlights planning and drought resources available from the Texas Water Development Board (TWDB). This document was developed to support regional water planning group outreach efforts aimed at improving engagement with small and rural entities.



All water utilities in the state are strongly encouraged to participate in the regional water planning process and utilize TWDB resources to ensure sufficient water supplies are available for all Texans in times of drought.

Definitions of common regional water planning terms and acronyms are available at this link.

# Future Water Supply Plans

# Region C Regional Water Planning

Grayson County is located in the Region C Regional Water Planning Area, which encompasses all or parts of 16 counties in north Texas (Figure 1). The Region C Regional Water Planning Group is responsible for developing a regional water plan every five years based on conditions that the region would face under a recurrence of a historical drought of record. The results of the regional water plan are included in the state water plan and inform state financial assistance and surface water right permitting decisions. The 2026 plan is currently under development and due to the TWDB in October 2025.

Public involvement is a key component to regional water planning. To ensure your water needs are accurately reflected in the 2026 plan, get involved in Region C water planning by visiting <a href="https://regioncwater.org/">https://regioncwater.org/</a> or contact the Trinity River Authority at <a href="longas@trinityra.org">longas@trinityra.org</a>, 817-467-4343.

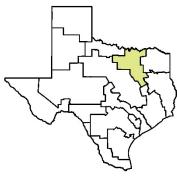


Figure I – Region C Regional Water Planning Area

# 2021 Region C Regional Water Plan

The 2021 Region C Regional Water Plan is available at <a href="http://www.twdb.texas.gov/waterplanning/rwp/plans/2021/index.asp.">http://www.twdb.texas.gov/waterplanning/rwp/plans/2021/index.asp.</a>

The following highlights from the plan are included in Attachment I

- Table A1 summarizes current water supply sources, 2020 and 2070 water supply needs, and recommended water management strategies for water user groups in Grayson County.
- Table A2 provides additional context on the severity of the identified water supply needs by expressing the needs as a percentage of each water user group's total demand. The larger the percent of an entity's total demand, the more severe a potential shortage may be.
- Table A3 presents unmet needs that remain even if all the recommended strategies in the plan were implemented.

# Water Providers in Grayson County

# **Municipal Water User Groups**

Public water systems provide potable water for public use and have at least 15 service connections or serve at least 25 individuals at least 60 days out of the year. Public water systems that provide more than 100 acre-feet of water per year for municipal use are considered municipal water user groups and are individually planned for in the regional water planning process. Note that some municipal water user groups include more than one public water system. Table I lists the Grayson County municipal water user groups for the 2026 regional water plan and associated public water systems that are located in the county.

Table I. Grayson County municipal water user groups and associated public water systems

Water User Group	Associated Public Water Systems(s)
Bells	CITY OF BELLS (TX0910001) <sup>R</sup>
Collinsville	CITY OF COLLINSVILLE (TX0910005) <sup>R</sup>
Denison	CITY OF DENISON (TX0910003)
Desert WSC*	DESERT WSC (TX0430032) <sup>R</sup>
Dorchester	CITY OF DORCHESTER (TX0910028) <sup>R</sup>
Gunter	CITY OF GUNTER (TX0910012) <sup>R</sup>
Howe	CITY OF HOWE (TX0910013)R
Kentuckytown WSC	KENTUCKYTOWN WSC (TX0910060)R**
Luella SUD	LUELLA SUD (TX0910032) <sup>R</sup>
	MARILEE ELMONT (TX0910055) <sup>R</sup> ;
Mustang SUD*	MARILEE SUD (TX0910081)
Northwest Grayson County WCID I	NORTHWEST GRAYSON COUNTY WCID 1 (TX0910137)R
Oak Ridge South Gale WSC	OAK RIDGE SOUTH GALE WSC (TX0910033) <sup>R</sup>
Pilot Point*	CITY OF PILOT POINT (TX0610005)R
Pink Hill WSC	PINK HILL WSC (TX0910034) <sup>R</sup>
Pottsboro	CITY OF POTTSBORO (TX0910004)R
Red River Authority of Texas*	RRA PRESTON SHORES WATER SYSTEM (TX0910037)R
Sherman	CITY OF SHERMAN (TX0910006)
South Grayson SUD*	SOUTH GRAYSON SUD (TX0910064)R
	CITY OF SOUTHMAYD (TX0910045) <sup>R</sup> ;
Southmayd	CITY OF SOUTHMAYD WESTVIEW SUBDIVISION (TX0910048)
Southwest Fannin County SUD*	SOUTHWEST FANNIN COUNTY SUD (TX0740031)R
Starr WSC	STARR WSC (TX0910046)
Tioga	CITY OF TIOGA (TX0910007) <sup>R</sup>
Tom Bean	CITY OF TOM BEAN (TX0910008)R
Two Way SUD*	TWO WAY SUD (TX0910022) <sup>R</sup>
Van Alstyne	CITY OF VAN ALSTYNE (TX0910009)R
Westminster SUD*	WESTMINSTER SUD (TX0430049) <sup>R</sup>
Whitesboro	CITY OF WHITESBORO (TX0910010)R
Whitewright*	CITY OF WHITEWRIGHT (TX0910011)R
Woodbine WSC*	WOODBINE SPECIAL UTILITY DISTRICT (TX0490018)R

<sup>&</sup>lt;sup>R</sup> Public water system meets the definition of a rural political subdivision as defined in Texas Water Code 15.001(14).

<sup>\*</sup> Water user group is split by more than one county. Public water systems associated with the water user group and located in Grayson County are shown.

<sup>\*\*</sup> Current records show that the public water system did not submit a water use survey response in 2023.

# **County-Other Water Systems**

County-other water systems are a subset of public water systems that provide on average less than 100 acrefeet of water per year for municipal use. For TWDB planning purposes, the following systems will be grouped together and planned for under the County-Other, Grayson water user group category in the 2026 regional water plan:

- 3-D MOBILE HOME AND RV PARK (TX0910072)
- AMERICAN LEGION MIA POST 231 (TX0910153)\*\*
- CITY OF KNOLLWOOD (TX0910146)
- CITY OF SADLER (TX0910014)<sup>R</sup>
- HERITAGE ESTATES (TX0910139)\*\*
- LAKE TEXOMA VFW POST 7873 (TX0910086)
- MUNSON POINT PROPERTY OWNERS ASSOCIATION (TX0910140)

- NORTHERN HILLS WATER SERVICE (TX0910126)\*\*
- RIDGECREST (TX0910035)
- ROCK CREEK RESORT (TX0910147)
- ROCKY POINT ESTATES (TX0910038)
- SHERWOOD SHORES (TX0910040)
- TANGLEWOOD ON TEXOMA (TX0910052)
- TEXOMA ESTATES WSC (TX0910047)<sup>R</sup>
- THOMPSON HEIGHTS WATER SYSTEM (TX0910085)

# Status of Water Systems and Supply

This section highlights potentially vulnerable water systems in Grayson County that serve a population of 7,500 or less and rely on a single water source and systems that have recently reported having 180 days or less of available supply.

### Entities that are identified as 7,500 / sole source

The following entities were identified in the 2021 Region C Regional Water Plan as having a 2010 population less than 7,500 and relying on a sole source for their water supply regardless of whether that water is provided by a wholesale water provider. These entities are highlighted since they may be more vulnerable in times of drought or in the event of a loss of water supply.

- Collinsville
- Gunter
- Northwest Grayson County WCID I
- Southmayd

- Starr WSC
- Tioga
- Tom Bean
- Two Way SUD\*

The 2021 Region C Regional Water Plan presents potential emergency response options for entities with populations less than 7,500 that rely on a sole source and county-other water user groups in the region. Emergency response options could potentially include addition of a local groundwater well, trucking in water, importing supply from a nearby entity, or utilizing existing emergency interconnects. For the temporary emergency response options identified for entities in Grayson County, see <a href="Chapter 7">Chapter 7</a> of the 2021 Region C Regional Water Plan.

<sup>&</sup>lt;sup>R</sup> Public water system meets the definition of a rural political subdivision as defined in Texas Water Code 15.001(14).

<sup>\*\*</sup> Current records show that the public water system did not submit a water use survey response in 2023.

<sup>\*</sup> Water user group is split by more than one county.

# **180-day Priority List occurrences**

Retail public utilities are required by the Texas Commission on Environmental Quality (TCEQ) to report when the utility is reasonably certain that its water supply will be available for less than 180 days. Between January 2016 and November 2023, the following public water systems in Grayson County reported to TCEQ as having approximately 180 days or less of water supply remaining:

• Marilee Elmont (TX0910055)

# Key TWDB Resources for Water Planning & Drought

# **Interactive State Water Plan**

The online Interactive State Water Plan provides access to detailed planning data presented at varying geographic levels, through maps, tables, and additional graphics. Users can customize what they see, for example, by selecting data associated with a specific water use category or from a specific planning decade. The displayed data is also downloadable in a spreadsheet format.

To explore detailed planning data for Grayson County in the Interactive State Water Plan, visit <a href="https://texasstatewaterplan.org/">https://texasstatewaterplan.org/</a>.

# **Texas Water Service Boundary Viewer**

The Texas Water Service Boundary Viewer (TWSBV) is a public water system service area mapping application that strives to provide the most up-to-date and best data available on the service areas for all community public water systems within Texas. The TWSBV also provides links to supplemental public water system information, including system specific data from the Drinking Water Watch (maintained by the TCEQ) as well as water use survey information.

The application is used to collect accurate retail water service boundaries to better estimate and project utility population and rural population not served by a system for the regional and state water plans.





Water systems are encouraged to use the application to verify that their service area boundaries on file are accurate and update them if changes have occurred. Information for editors (utilities) is available at: <a href="http://bit.ly/ServiceBoundaryEditor">http://bit.ly/ServiceBoundaryEditor</a>.

The public can view water system areas on file at <a href="https://www2.twdb.texas.gov/apps/WaterServiceBoundaries">https://www2.twdb.texas.gov/apps/WaterServiceBoundaries</a>.

### Water Use Survey

The TWDB is legislatively directed to provide planning and financial assistance for the development and management of water resources in Texas. This activity is dependent upon the accuracy and completeness of the information that water users provide in the annual Water Use Survey.

The TWDB annually collects and maintains information concerning current state water use in various reports accessible here: <a href="https://www.twdb.texas.gov/waterplanning/waterusesurvey/estimates">https://www.twdb.texas.gov/waterplanning/waterusesurvey/estimates</a>



### **TWDB Water Loss Resources**

Reducing water loss offers utilities the ability to increase their water use efficiency, improve their financial status, and assist with long-term water sustainability. Currently, all retail public water systems with more than 3,300 connections or a financial obligation to TWDB are required to annually complete and submit a <a href="Water Loss Audit">Water Loss Audit</a>. All other retail public water suppliers are required to submit a water loss audit to the TWDB every five years. Water loss audits are required to be submitted by an individual <a href="trained">trained</a> in water loss auditing.

Water loss audits help determine the appropriate actions for water loss control but, only if the water loss audit data is validated. Starting in 2025, a Water Loss Audit is required to be validated if the utility has an existing financial obligation to TWDB or is applying financial assistance from TWDB. Visit the TWDB Water Loss Audit Validation webpage for more information.

TWDB staff are available to provide water loss audit assistance and work with utility staff to better understand how water loss audits can benefit their utility. For more information on leak detection, how to collect and report accurate data, and data validation, visit <a href="https://www.twdb.texas.gov/conservation/municipal/waterloss/">https://www.twdb.texas.gov/conservation/municipal/waterloss/</a>.

# **TWDB Drought Resources**

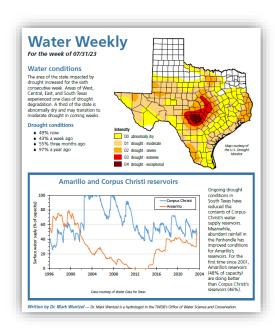
The TWDB offers a variety of resources to assist Texans with drought response and preparedness on the TWDB Drought Resources webpage, including

<u>Water Data for Texas</u>: Water Data for Texas provides information on reservoir storage levels, lake evaporation and precipitation, and water levels at the automated groundwater level wells among other types of information.

<u>Drought Dashboard</u>: The TWDB's drought dashboard provides information on conditions across the state, including rainfall, temperature, streamflow, and soil moisture as well as various drought indices and U.S. Drought Monitor status.

Water Weekly: Water weekly provides a weekly summary of drought conditions across the state.

<u>Texas Water Conditions Report</u>: Report provides a monthly summary of the state's drought and water conditions.



### **TWDB** Financial Assistance Programs

The TWDB offers a variety of cost-effective loan and grant programs that provide for the planning, acquisition, design, and construction of water related infrastructure and other water quality improvements. <u>Urgent need funding is available through the Drinking Water State Revolving Fund</u> to assists communities with addressing unforeseen situations that require immediate attention to protect public health and safety.

For more information about TWDB financial assistance programs, visit <a href="http://www.twdb.texas.gov/financial/">http://www.twdb.texas.gov/financial/</a>, or contact TWDB at 512-463-0991, <a href="mailto:Financial\_Assistance@twdb.texas.gov">Financial\_Assistance@twdb.texas.gov</a>.

## Texas Division of Emergency Management (TDEM)

The TDEM coordinates the state emergency management program, which is intended to ensure the state and its local governments respond to and recover from emergencies and disasters and implement plans and programs to help prevent or lessen the impact of emergencies and disasters. The chief of TDEM is the state drought manager and is responsible for managing and coordinating the drought response component of the state water plan. For more information, visit https://www.tdem.texas.gov/ or contact 512-424-2208.

# **Texas Commission on Environmental Quality (TCEQ)**

The TCEQ provides hands-on assistance to communities responding to drought, consults with public water systems about implementing drought contingency plans, tracks public drinking water systems under water-use restrictions, actively manages water in Watermaster Programs, answers the public drought-information hot line: 800-447-2827, and offers drought information on its website: <a href="https://www.tceq.texas.gov/response/drought">https://www.tceq.texas.gov/response/drought</a>.

In the event of a drinking water emergency, contact your <u>TCEQ regional office</u>. For after-hours emergencies, call 1-888-777-3186.

# Attachment I -2021 Region C Regional Water Plan Summary Tables

Table AI. Grayson County planning summary

		2020	2070	
		2020	2070	
		Water Need	Water Need	
	Current Water Supply	(acre-	(acre-	Recommended Water
Water User Group	Sources	feet/year)	feet/year)	Management Strategies
				Groundwater wells and
				other; Municipal
				conservation; Other
-	Trinity Aquifer;			strategies; Other
	Woodbine Aquifer	0	501	surface water
	•			Municipal conservation;
				Other strategies; Other
Collinsville	Trinity Aquifer	0	411	surface water
	Randell Lake/Reservoir;	•		
	Texoma Lake/Reservoir			
	Non-System Portion;			Municipal conservation;
	Trinity Aquifer;			Other strategies; Other
	Woodbine Aquifer	0	954	surface water
	Randell Lake/Reservoir;	U	734	surface water
	· ·			
	Texoma Lake/Reservoir			
	Non-System Portion;	7.10	7.000	Municipal conservation;
Denison	Woodbine Aquifer	748	7,020	Other surface water
				Groundwater wells and
				other; Municipal
Desert WSC*	Woodbine Aquifer	0	122	conservation
				Groundwater wells and
				other; Municipal
				conservation; Other
-	Trinity Aquifer;			strategies; Other
Dorchester	Woodbine Aquifer	0	0	surface water
	•			Groundwater wells and
				other; Municipal
				conservation; Other
				strategies; Other
Gunter -	Trinity Aquifer	124	763	surface water
	Indirect Reuse; North	121	7 0 3	Sarrace water
	Texas MWD			Indirect reuse; Municipal
	Lake/Reservoir System;			conservation; New
	Tawakoni			major reservoir; Other
	Lake/Reservoir;			strategies; Other
	,	0	75	
1	Woodbine Aquifer	U	/3	surface water
	Red Run-of-River;			
	Trinity Aquifer;	_	•	<b>N</b> 1
Irrigation, Grayson	Woodbine Aquifer	0	0	None
				Municipal conservation;
		_	46-	Other strategies; Other
Kentuckytown WSC	Woodbine Aquifer	0	487	surface water

		2020	2070	
		Water Need	Water Need	
	Current Water Supply	(acre-	(acre-	Recommended Water
Water User Group	Sources	feet/year)	feet/year)	Management Strategies
	Red Livestock Local	1000/001/	,	
	Supply; Trinity Livestock			
	Local Supply; Woodbine			
Livestock, Grayson	Aquifer	0	0	None
		-		Indirect reuse; Municipal
				conservation; New
				major reservoir; Other
				strategies; Other
Luella SUD	Woodbine Aquifer	0	277	surface water
	Fork Lake/Reservoir;			
	Indirect Reuse; North			
	Texas MWD			
	Lake/Reservoir System;			
	Randell Lake/Reservoir;			
	Red Run-of-River;			
	Tawakoni			
	Lake/Reservoir; Texoma			Indirect reuse; New
	Lake/Reservoir Non-			major reservoir; Other
Manufacturing,	System Portion;	_		strategies; Other
Grayson	Woodbine Aquifer	0	704	surface water
	Texoma Lake/Reservoir			Municipal conservation;
NA II CLIDY	Non-System Portion;			Other strategies; Other
Marilee SUD*	Trinity Aquifer	l	119	surface water
M: · · · · · · · · · · ·	T : :: A ::C	100	_	Groundwater wells and
Mining, Grayson	Trinity Aquifer	100	0	other
	Chapman/Cooper Lake/Reservoir Non-			
	System Portion; Indirect Reuse; Ray Roberts-			
	Lewisville-Grapevine			Indirect reuse; Municipal
	Lake/Reservoir System;			conservation; New
	Trinity Aquifer;			major reservoir; Other
Mustang SUD*	Woodbine Aquifer	0	13,427	surface water
Trastaria SOB	7 TOOGDING 7 Iquinei		13,127	Groundwater wells and
				other; Municipal
				conservation; Other
Northwest Grayson				strategies; Other
County WCID I	Trinity Aquifer	31	255	surface water
,	Randell Lake/Reservoir;			
Oak Ridge South Gale	Texoma Lake/Reservoir			Municipal conservation;
WSC	Non-System Portion	14	234	Other surface water
				Groundwater wells and
	Trinity Aquifer;			other; Municipal
Pink Hill WSC	Woodbine Aquifer	0	258	conservation
	Texoma Lake/Reservoir			Municipal conservation;
	Non-System Portion;			Other strategies; Other
Pottsboro	Woodbine Aquifer	95	2,135	surface water

		2020	2070	
		Water Need	Water Need	
	Current Water Supply	(acre-	(acre-	Recommended Water
Water User Group	Sources	feet/year)	feet/year)	
Water Oser Group	Greenbelt	ieed year j	ieed year )	Management Strategies
	Lake/Reservoir; Little			
	Wichita River			
	Lake/Reservoir System;			
	Ogallala Aquifer; Other			
	Aquifer; Seymour Aquifer; Texoma			Groundwater wells and
	Lake/Reservoir Non-			
Dad Divan Avelancies				other; Indirect reuse;
Red River Authority of Texas*	System Portion; Trinity		172	Municipal conservation;
of Texas**	Aquifer	0	172	New major reservoir
				Indirect reuse; Municipal
	Texoma Lake/Reservoir			conservation; New
	Non-System Portion;			major reservoir; Other
	Trinity Aquifer;			strategies; Other
Sherman	Woodbine Aquifer	0	9,101	surface water
				Municipal conservation;
C I C CIID	Trinity Aquifer;		254	Other strategies; Other
South Grayson SUD*	Woodbine Aquifer	0	354	surface water
				Municipal conservation;
				Other strategies; Other
Southmayd	Woodbine Aquifer	49	229	surface water
				Groundwater wells and
				other; Municipal
Southwest Fannin		_		conservation; New
County SUD*	Woodbine Aquifer	0	704	major reservoir
Starr WSC	Trinity Aquifer	0	0	Municipal conservation
Steam-Electric Power,	Texoma Lake/Reservoir	_	_	Other strategies; Other
Grayson	Non-System Portion	0	0	surface water
				Municipal conservation;
				Other strategies; Other
Tioga	Trinity Aquifer	0	424	surface water
				Municipal conservation;
				Other strategies; Other
Tom Bean	Woodbine Aquifer	0	353	surface water
				Indirect reuse; Municipal
				conservation; New
				major reservoir; Other
				strategies; Other
Two Way SUD*	Trinity Aquifer	5	1,378	surface water
	Fork Lake/Reservoir;			
	Indirect Reuse; North			
	Texas MWD			
	Lake/Reservoir System;			Indirect reuse; Municipal
	Tawakoni			conservation; New
	Lake/Reservoir; Trinity			major reservoir; Other
	Aquifer; Woodbine			strategies; Other
Van Alstyne	Aquifer	0	1,248	surface water
Westminster WSC*	Woodbine Aquifer	0	6	Municipal conservation

		2020	2070	
		Water Need	Water Need	
	Current Water Supply	(acre-	(acre-	Recommended Water
Water User Group	Sources	feet/year)	feet/year)	Management Strategies
Whitesboro	Trinity Aquifer	0	188	Indirect reuse; Municipal conservation; New major reservoir; Other strategies; Other surface water
Whitewright*	Woodbine Aquifer	0	0	Municipal conservation; Other strategies; Other surface water
Woodbine WSC*	Trinity Aquifer	5	348	Municipal conservation; Other strategies; Other surface water

<sup>\*</sup> Water user group is split by more than one county. Table presents the water user group's total summary data for all related counties.

Table A2. Grayson County projected needs of every water user group, as a share of total demand (percent)

Water User Group	2020	2030	2040	2050	2060	2070
Bells	-	-	-	-	51	64
Collinsville	-	27	39	49	51	63
County-Other, Grayson	-	-	-	-	-	40
Denison	10	18	19	27	39	53
Desert WSC*	-	-	-		-	24
Dorchester	-	-	-	-	-	-
Gunter	42	57	67	74	78	82
Howe	-	1	4	7	12	16
Irrigation, Grayson	-	-	-	-	-	-
Kentuckytown WSC	-	- 11	22	30	45	57
Livestock, Grayson	-	-	-	-	-	-
Luella SUD	-	9	18	23	32	42
Manufacturing, Grayson	-	-	-		-	23
Marilee SUD*	-	-	-	-	4	10
Mining, Grayson	32	-	-	-	-	-
Mustang SUD*	-	23	35	44	50	56
Northwest Grayson County WCID I	16	16	18	26	45	61
Oak Ridge South Gale WSC	6	14	16	24	37	51
Pink Hill WSC	-	6	3	13	36	53
Pottsboro	18	25	27	34	45	73
Red River Authority of Texas*	-	-	-	ı	3	7
Sherman	-	-	-	-	10	38

Water User Group	2020	2030	2040	2050	2060	2070
South Grayson SUD*	-	9	24	30	37	41
Southmayd	34	39	43	47	61	71
Southwest Fannin County SUD*	-	4	16	26	41	53
Starr WSC		-	-	-	-	
Steam-Electric Power, Grayson	-	-	-	-	-	-
Tioga	-	6	10	16	62	72
Tom Bean	-	10	18	26	40	60
Two Way SUD*	ı	21	32	43	57	67
Van Alstyne	-	4	- 11	17	31	41
Westminster WSC*	-	-	-	-	-	I
Whitesboro	-	-	-	-	2	26
Whitewright*	-	-	-	-	-	-
Woodbine WSC*		9	16	23	29	35

<sup>\*</sup> Water user group is split by more than one county. Table presents the water user group's total data for all related counties.

Color graded scale of needs as a share of demand from 0 (green) to 100 percent (red). **Bold** indicates needs are 100 percent met by implementation of the plan.

**Table A3. Grayson County unmet needs (acre-feet per year)** — Table not applicable. No water user groups in the county are projected to have unmet needs in the 2021 Regional Water Plan.



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