

**BRAZOS G**  
WATER PLANNING GROUP

# Subregional Information Meetings

Item 6.1  
2026 Brazos G Regional Water Plan




Advanced Groundwater Solutions, LLC.

January 14, 15, & 16, 2025

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<p><b>1</b>    <b>Introductions</b></p> <p><b>2</b>    <b>Meeting Goals</b></p> <p><b>3</b>    <b>Overview of Regional Water Planning Process</b></p> <p><b>4</b>    <b>Next Steps</b></p>	<p><b>5</b>    <b>Draft Supply Plans for Water User Groups</b></p> <p><b>6</b>    <b>Comments/Discussion</b></p> <p><b>7</b>    <b>Close &amp; Individual Consultation</b></p>
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**BRAZOS** G  
ATER PLANNING GROUP

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# Introductions

GARIBAY | 3

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**BRAZOS** G  
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# Meeting Goals

GARIBAY | 4

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## Meeting Goals

1. Present overview of the Brazos G Regional Water Planning Process for interested parties
2. Present DRAFT water plans for Water User Groups (WUGs)
3. Obtain feedback from WUGs and public

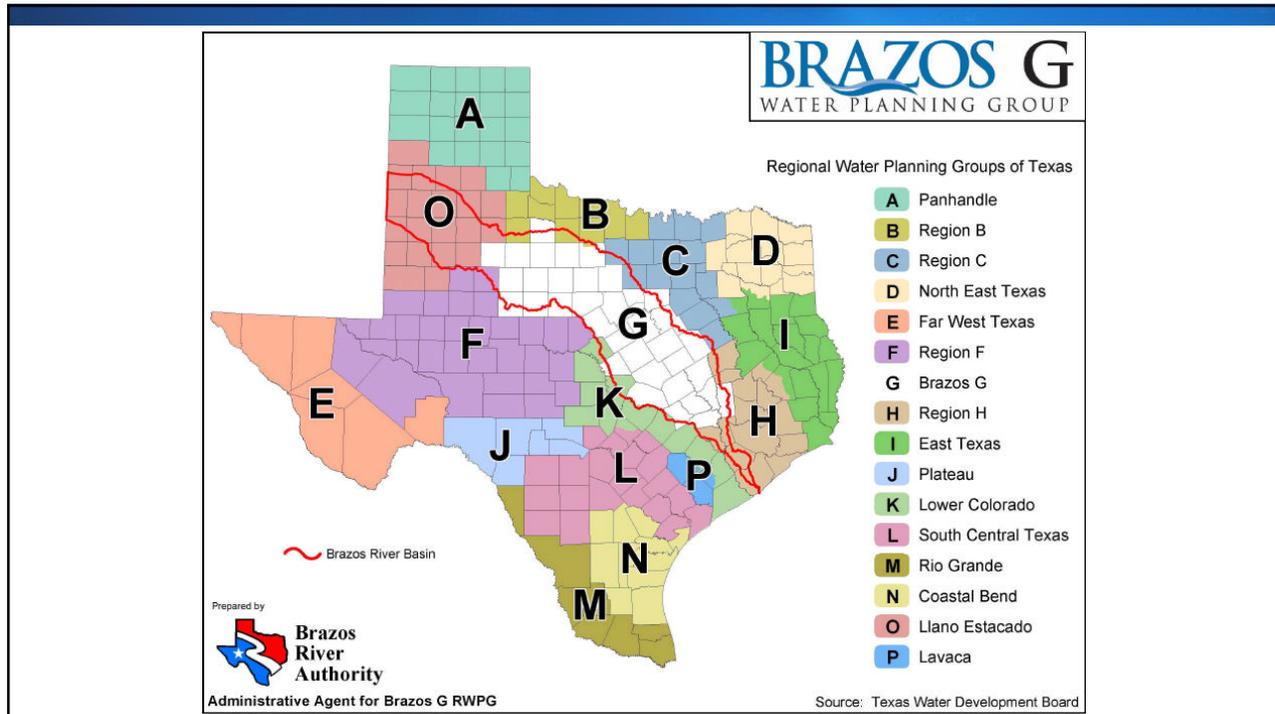
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The slide features a blue background with a white circular graphic on the left. Inside the circle is a map of Texas with a teal-colored region in the north-central part, and a large blue number '3' next to it. Above the map, the text 'BRAZOS G' is written in blue, with 'WATER PLANNING GROUP' in smaller black letters below it. To the right of the circle, the text 'Regional Water Planning Process' is written in white. At the bottom right of the slide, there is a small logo for 'CAROLLO' with a globe icon and the number '6'.

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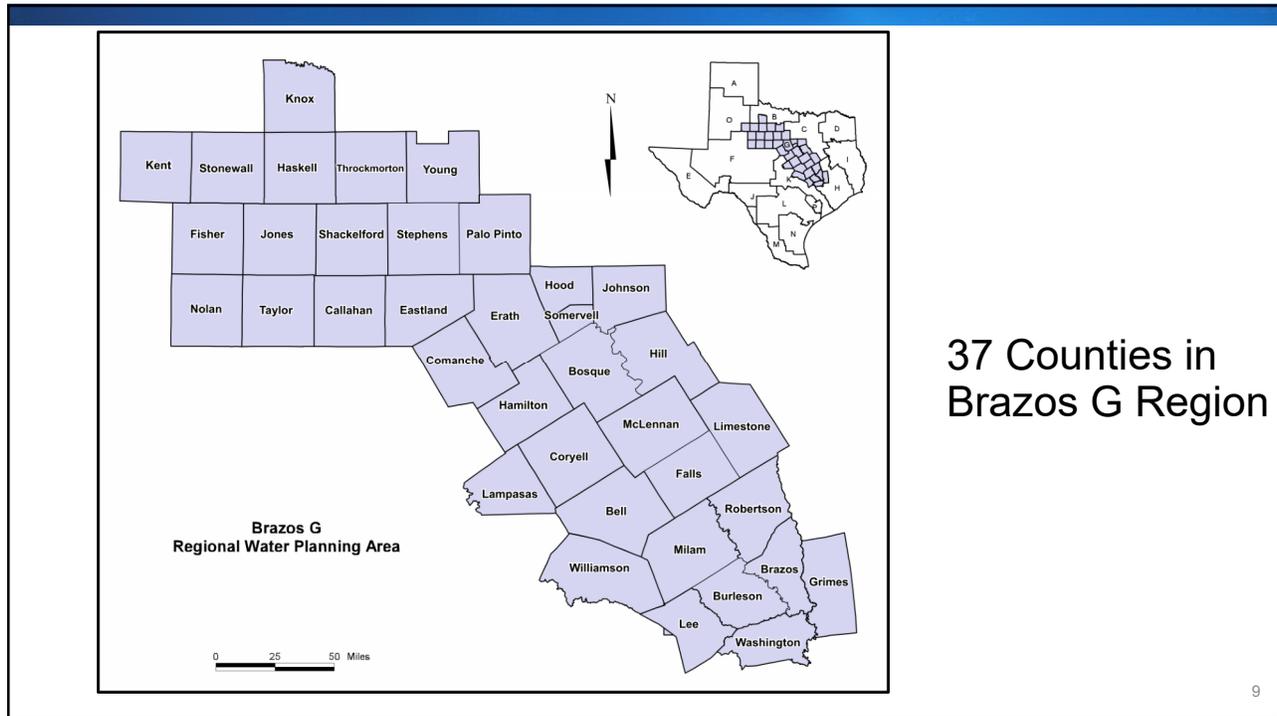
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## Why is the Regional Water Planning Process Important?

- **Funding**
  - TWDB (grants & loans) requires “consistency” with State and regional plans
  - State Water Implementation Fund for Texas require projects be in the Plan
- **Permits**
  - TCEQ (water rights) requires “consistency” with State and regional plans
  - Groundwater Conservation Districts – some districts require “consistency”
- **Provides consistent picture of the overall water supply situation for the State**
  - Education of the public
  - Education of the Legislature
  - Dialogue regarding appropriate water supply strategies

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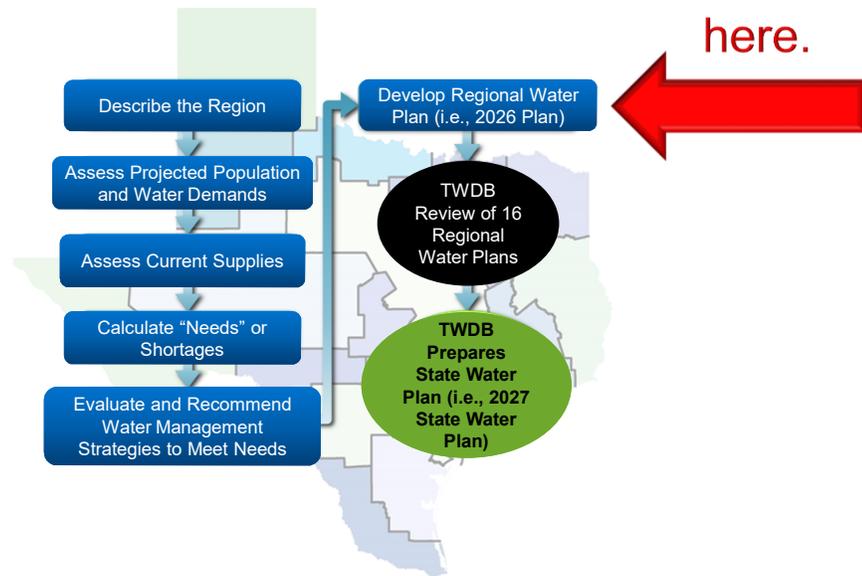
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- **527 Water Users**
  - 279 Municipal Groups
  - Other Uses
    - Manufacturing (30)
    - Steam Electric (12)
    - Irrigation (36)
    - Livestock (37)
    - Mining (36)
- **97 Wholesale Providers**

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## Steps to Regional Planning



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## How do we communicate?

- Brazos G website: [www.brazosgwater.org](http://www.brazosgwater.org)
  - Posted meetings and planning information
  - Email contact widget
- Email list of interested parties
- Planning group meetings and required public hearings
- Surveys of Water User Groups, Wholesale Water Providers, county judges and groundwater conservation districts
- Public presentations when invited and time/funding allows
- Virtual/In-Person meetings to engage and solicit input
- Phone calls/emails to & from us (members, administrative agent, consultants)
- Subregional meetings

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## Upcoming Schedule (tentative)

- **January 14-16:** Subregional meetings
  - College Station, Waco, Abilene
- **February 13:** Brazos G Meeting
  - Adopt Initially Prepared Plan
- **March 3:** Submit Initially Prepared Plan
- **Spring/Summer:** Comment Period
  - Plan distributed digitally to county clerks and libraries, online
  - Public hearing (April)
  - Written public comment (60 days)
  - State agency comment
  - Continued engagement
  - Focus on feasible strategies
- **Summer:** Address comments
- **September:** Adopt Final Plan
- **October 20:** Submit Final Plan

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**BRAZOS G**  
WATER PLANNING GROUP

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Draft Supply Plans for  
Water User Groups

CARROLL COUNTY 15

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Water User Groups  
(WUGs)

**BRAZOS G**  
WATER PLANNING GROUP

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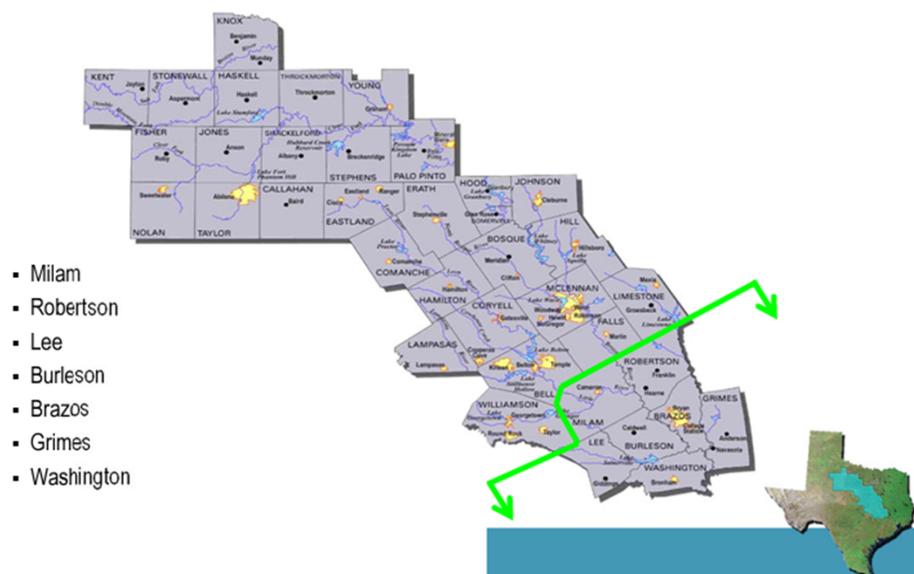
## Water User Group (WUG) from TAC §357.10(43)

- Identified user or group of users for which Water Demands and Existing Water Supplies have been identified and analyzed and plans developed to meet Water Needs.
- These include:
  - A. Privately-owned utilities that provide an average of more than 100 acre-feet per year for municipal use for all owned water systems;
  - B. Water systems serving institutions or facilities owned by the state or federal government that provide more than 100 acre-feet per year for municipal use;
  - C. All other Retail Public Utilities not covered in (A) and (B) that provide more than 100 acre-feet per year for municipal use;
  - D. Collective Reporting Units, or groups of Retail Public Utilities that have a common association and are requested for inclusion by the RWPG;
  - E. Municipal and domestic water use, referred to as County-Other, not included in (A) - (D); and
  - F. Non-municipal water use including manufacturing, irrigation, steam electric power generation, mining, and livestock for each county or portion of a county in an RWPA.

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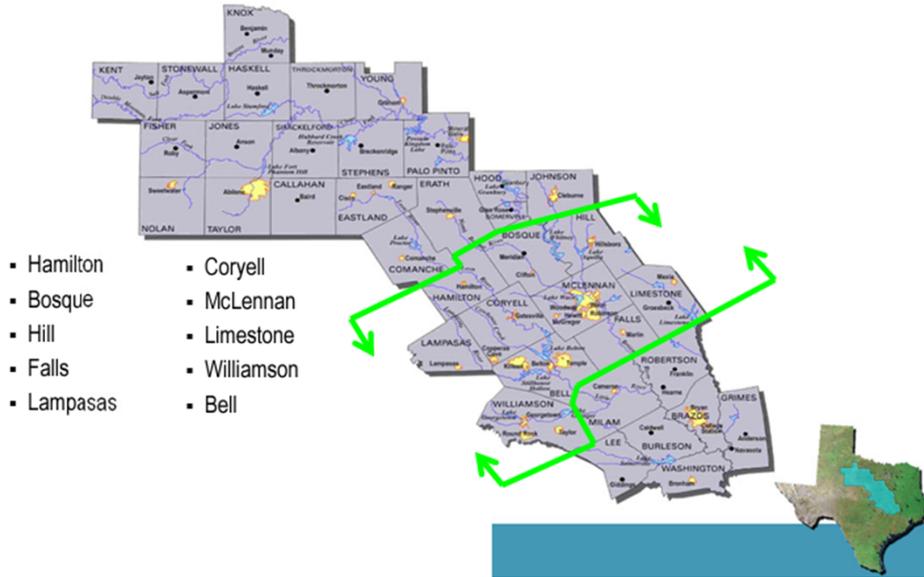
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## Lower Sub-Regional Counties



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## Middle Sub-Regional Counties



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## Upper Sub-Regional Counties



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## Continuing to Gather Input

Final projections of population and demand were adopted by TWDB last year.

- RWPG solicited input via calls and surveys to make significant changes to the draft projections.

Information presented here and in the IPP is Draft.

Input from water providers is wanted and appreciated.

- Improve accuracy on existing supplies
- Improve accuracy on future near- and long-term strategies

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## Advanced Conservation and Water Loss Reduction

### Municipal Water Loss Reduction

- Target efficiency < 15%
- WUGs reporting > 15% water losses
- Consider water loss audits for calculating replacement
- Recommend BMPs: Meter replacement, waterline repair and replacement.

### Irrigation, Mining, & Manufacturing Conservation

- Reduce irrigation use by 3% in 2030, 5% in 2040, and 7% in 2050-2080
- All WUGs with needs
- Consistent with previous planning cycles
- Improves and updates information regarding conservation savings and/or costs
- Continues to not "prescribe" a specific set of BMPs

### Steam-Electric Power Generation

- No conservation recommendations suggested due to the widely differing water use among the different facilities.

### Livestock

- Very limited needs, use of exempt wells, stock tanks

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## Regional Summary of Municipal WUGs: Calculated Conservation Savings

- As in previous cycle, Planning group elected to recommend advanced conservation and water loss strategies regardless of identified needs.
- 159 WUGs in Brazos G with GPCD above 140.
  - Potential savings with advanced conservation approximately 29,800 ac-ft in 2030 up to 189,900 ac-ft by 2080.
- 44 WUGs with reported water loss greater than 15%.
  - Potential savings with water loss reduction approximately 6,600 ac-ft in 2030 up to 8,500 ac-ft by 2080.

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## Regional Summary of Non-Municipal WUGs: Calculated Conservation Savings

- 18 counties in Brazos G with reported irrigation needs during the 2030-2080 planning period.
  - Potential savings with voluntary conservation approximately 6,500 ac-ft in 2030 up to 15,200 ac-ft by 2080.
- 14 counties in Brazos G with reported manufacturing needs during the 2030-2080 planning period.
  - Potential savings with voluntary conservation approximately 300 ac-ft in 2030 up to 1,000 ac-ft by 2080.
- 14 counties in Brazos G with reported mining needs during the 2030-2080 planning period.
  - Potential savings with voluntary conservation approximately 600 ac-ft in 2030 up to 1,600 ac-ft by 2080.

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## Sub-Regional Water User Group Plans

### Presented on a county basis

- WUGs split over multiple counties are shown in the primary county with the WUG's greatest population served

### All use types will be presented

### Planning period

- Planning done for every decade over 2030 through 2080
- Presentation today only shows 2030 and 2080 amounts

### Key Definitions

- **Need** = shortage from Supply/Demand comparisons, shown as negative amounts
- **Tier 2 Need** = Those needs remaining after implementation of recommended conservation
- **Surplus** = shown as positive amounts

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## Callahan County

Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online		
						2030	2080	
Callahan	Baird					<b>Need/Surplus:</b>		
							-26	-83
						Advanced Conservation	26	83
						Tier-2 Needs	0	0
Callahan	Eula WSC					<b>Need/Surplus:</b>		
							-136	-159
						Water Loss Reduction	136	159
						Tier-2 Needs	0	0
Callahan	Cross Plains					<b>Need/Surplus:</b>		
							99	110
						Advanced Conservation	16	63
						Tier-2 Needs	115	173
						Need after Recommended WMS	115	173

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Comanche County									
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	2030	2080	
Comanche	County-Other, Comanche	Trinity Aquifer Development	County-Other, Comanche	R	2021 Recommended	2030	<b>Need/Surplus:</b>	<b>-364</b>	<b>-234</b>
							Tier-2 Needs	-364	-234
							Need after Recommended WMS	12	164
Comanche	Irrigation, Comanche	Lake Granger Augmentation-Ph 2 (Groundwater)	Brazos River Authority	R	2021 Recommended	2030	<b>Need/Surplus:</b>	<b>-9,252</b>	<b>-9,426</b>
							Advanced Conservation	788	1,839
							Tier-2 Needs	-8,464	-7,587
							Need after Recommended WMS	-7,305	-6,281
Comanche	Livestock, Comanche						<b>Need/Surplus:</b>	<b>-784</b>	<b>-784</b>
							Tier-2 Needs	-784	-784
							Need after Recommended WMS	-784	-784

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Comanche County									
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	2030	2080	
Comanche	Manufacturing, Comanche						<b>Need/Surplus:</b>	<b>4</b>	<b>-1</b>
							Advanced Conservation	1	2
							Tier-2 Needs	5	1
							Need after Recommended WMS	5	1
Comanche	Comanche						<b>Need/Surplus:</b>	<b>164</b>	<b>189</b>
							Water Loss Reduction	67	64
							Tier-2 Needs	231	253
							Need after Recommended WMS	231	253

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Eastland County								
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	2030	2080
							<b>Eastland</b>	<b>Cisco</b>
						Advanced Conservation	54	117
						Tier-2 Needs	174	105
						Need after Recommended WMS	174	105
<b>Eastland</b>	<b>Manufacturing, Eastland</b>					<b>Need/Surplus:</b>	<b>826</b>	<b>-15</b>
						Advanced Conservation	2	5
						Tier-2 Needs	828	-10
						Need after Recommended WMS	828	-10
<b>Eastland</b>	<b>Mining, Eastland</b>					<b>Need/Surplus:</b>	<b>-313</b>	<b>-314</b>
						Advanced Conservation	10	23
						Tier-2 Needs	-303	-291
		Trinity Aquifer Development	Mining, Eastland	R	2021 Recommended - Updated Supply	2030	90	91
						Need after Recommended WMS	-213	-200

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Eastland County								
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	2030	2080
							<b>Eastland</b>	<b>Staff WSC</b>
						Advanced Conservation	0	0
		Purchase Additional Supply from Ranger	Staff WSC	R	2026 Recommended	2070	67	-26
						Need after Recommended WMS	0	26
<b>Eastland</b>	<b>Eastland</b>					<b>Need/Surplus:</b>	<b>1,455</b>	<b>1,488</b>
						Advanced Conservation	59	37
						Tier-2 Needs	1,514	1,525
						Need after Recommended WMS	1,514	1,525
<b>Eastland</b>	<b>Ranger</b>					<b>Need/Surplus:</b>	<b>1,383</b>	<b>1,458</b>
						Advanced Conservation	31	43
						Tier-2 Needs	1,414	1,501
						Need after Recommended WMS	1,414	1,501

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Fisher County									
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	Decade Online		
							2030	2080	
<b>Fisher</b>	<b>County-Other, Fisher</b>						<b>Need/Surplus:</b>	<b>-24</b>	<b>-13</b>
		Seymour Aquifer Development	County-Other, Fisher	R	2026 Recommended	2030	Tier-2 Needs	-24	-13
							Need after Recommended WMS	25	25
								1	12
<b>Fisher</b>	<b>Rotan</b>						<b>Need/Surplus:</b>	<b>-4</b>	<b>-94</b>
							Advanced Conservation	18	28
							Tier-2 Needs	14	-66
		Subordination - CRMWD System	Colorado River MWD	R	2021 Recommended - Updated Supply	2040		0	88
							Need after Recommended WMS	14	22
<b>Fisher</b>	<b>Roby</b>						<b>Need/Surplus:</b>	<b>34</b>	<b>44</b>
							Advanced Conservation	10	33
							Tier-2 Needs	44	77
							Need after Recommended WMS	44	77

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Haskell County									
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	Decade Online		
							2030	2080	
<b>Haskell</b>	<b>Haskell</b>						<b>Need/Surplus:</b>	<b>-581</b>	<b>-562</b>
							Advanced Conservation	43	95
							Tier-2 Needs	-538	-467
		NCTMWA Lake Creek Reservoir	North Central Texas Municipal Water Authority	R	2021 Recommended - Updated Supply	2050		0	499
							Need after Recommended WMS	-538	32
<b>Haskell</b>	<b>Irrigation, Haskell</b>						<b>Need/Surplus:</b>	<b>-8,309</b>	<b>-8,309</b>
							Advanced Conservation	1,493	3,483
							Tier-2 Needs	-6,816	-4,826
							Need after Recommended WMS	-6,816	-4,826

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Haskell County								
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	2030	2080
<b>Haskell</b>	<b>Mining, Haskell</b>					<b>Need/Surplus:</b>	<b>-4</b>	<b>-4</b>
						Advanced Conservation	0	0
						Tier-2 Needs	-4	-4
						Need after Recommended WMS	-4	-4
<b>Haskell</b>	<b>County-Other, Haskell</b>					<b>Need/Surplus:</b>	<b>72</b>	<b>96</b>
						Water Loss Reduction	109	97
						Tier-2 Needs	181	193
		Rolling Plains GCD Managed Aquifer Recharge	County-Other, Haskell	R	2026 Recommended	2040	0	4,500
						Need after Recommended WMS	181	0
								35

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Hood County								
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	2030	2080
<b>Hood</b>	<b>Acton MUD</b>					<b>Need/Surplus:</b>	<b>2,038</b>	<b>-407</b>
						Advanced Conservation	170	771
						Tier-2 Needs	2,208	364
		Increase SWATS WTP Capacity - Acton MUD, Johnson County SUD	Acton MUD	R	2021 Recommended	2040	0	3,752
		Trinity Aquifer Development	Acton MUD	R	2021 Recommended	2080	51	418
						Need after Recommended WMS	2,259	4,534
<b>Hood</b>	<b>County-Other, Hood</b>					<b>Need/Surplus:</b>	<b>-2,489</b>	<b>-4,211</b>
						Tier-2 Needs	-2,489	-4,211
		Trinity Aquifer Development	County-Other, Hood	R	2021 Recommended - Updated Supply	2030	1,950	740
						Need after Recommended WMS	-539	-3,471
								36

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Hood County									
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	2030	2080	
							<b>Hood</b>	<b>Granbury</b>	
							Advanced Conservation	225	986
							Tier-2 Needs	-542	-2,273
		Granbury North Water Treatment Plant	Granbury	R	2021 Recommended	2030		2,800	2,800
							Need after Recommended WMS	2,258	527
<b>Hood</b>	<b>Lipan</b>						<b>Need/Surplus:</b>	<b>27</b>	<b>-43</b>
							Advanced Conservation	0	0
							Tier-2 Needs	27	-43
		Trinity Aquifer Development	Lipan	R	2026 Recommended	2080		0	50
							Need after Recommended WMS	27	7

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Hood County									
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	2030	2080	
							<b>Hood</b>	<b>Mining, Hood</b>	
							Advanced Conservation	131	399
							Tier-2 Needs	-2,824	-3,894
		Trinity Aquifer Development	Mining, Hood	R	2021 Recommended - Updated Supply	2080		2,894	4,150
							Need after Recommended WMS	70	256
<b>Hood</b>	<b>Tolar</b>						<b>Need/Surplus:</b>	<b>38</b>	<b>-130</b>
							Advanced Conservation	5	8
							Tier-2 Needs	43	-122
		Trinity Aquifer Development	Tolar	R	2026 Recommended	2080		0	125
							Need after Recommended WMS	43	3

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Johnson County								
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	Need/Surplus:	
							2030	2080
Johnson	Bethesda WSC						<b>-2,401</b>	<b>-6,403</b>
							Advanced Conservation	592 3,092
							Tier-2 Needs	-1,809 -3,311
	TRWD - Cedar Creek Wetlands	TRWD	TRWD	R	2021 Recommended	2030	121	563
	TRWD - Additional Cedar Creek and Richland-Chambers	TRWD	TRWD	R	2021 Recommended	2030	194	259
	Marvin Nichols (328) Strategy for NTMWD, TRWD, and UTRWD	TRWD		R	2021 Recommended - Updated Supply	2060	0	1,068
	Trinity Aquifer Development	Bethesda WSC		R	2026 Recommended	2030	1,412	0
	TRWD - Aquifer Storage and Recovery Pilot	TRWD		R	2021 Recommended - Updated Supply	2080	0	32
	TRWD - Carrizo-Wilcox Groundwater	TRWD		R	2021 Recommended - Updated Supply	2040	0	84
	TRWD - Reuse from TRA Central WWTP	TRWD		R	2021 Recommended	2030	63	384
	TRWD - Tehuacana	TRWD		R	2021 Recommended	2040	0	134
	Woodbine Aquifer Development	Bethesda WSC		R	2026 Recommended	2080	0	369
	Wright Patman Reallocation for NTMWD, TRWD, and UTRWD	TRWD		R	2021 Recommended	2070	0	362
							Need after Recommended WMS	-19 -56

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Johnson County								
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	Need/Surplus:	
							2030	2080
Johnson	Burleson						<b>-1,089</b>	<b>-6,280</b>
							Advanced Conservation	0 0
							Tier-2 Needs	-1,089 -6,280
	TRWD - Cedar Creek Wetlands	TRWD	TRWD	R	2021 Recommended	2030	304	928
	TRWD - Additional Cedar Creek and Richland-Chambers	TRWD	TRWD	R	2021 Recommended	2030	484	430
	Marvin Nichols (328) Strategy for NTMWD, TRWD, and UTRWD	TRWD		R	2021 Recommended	2050	0	1,767
	TRWD - Aquifer Storage and Recovery Pilot	TRWD		R	2021 Recommended	2030	20	53
	TRWD - Carrizo-Wilcox Groundwater	TRWD		R	2021 Recommended	2040	0	268
	TRWD - Reuse from TRA Central WWTP	TRWD		R	2021 Recommended	2030	159	632
	TRWD - Tehuacana	TRWD		R	2021 Recommended	2040	0	222
	TRWD - Unallocated Supply Utilization	TRWD		R	2021 Recommended	2030	24	92
	Wright Patman Reallocation for NTMWD, TRWD, and UTRWD	TRWD		R	2021 Recommended	2070	0	598
							Need after Recommended WMS	-98 -1,290

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Johnson County									
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online			
							2030	2080	
<b>Johnson</b>	<b>Cleburne</b>						<b>Need/Surplus:</b>	<b>674</b>	<b>-6,060</b>
							Advanced Conservation	572	3,084
							Tier-2 Needs	1,246	-2,976
		TRWD - Cedar Creek Wetlands	TRWD	R	2021 Recommended	2040		0	2,056
		TRWD - Additional Cedar Creek and Richland-Chambers	TRWD	R	2021 Recommended	2040		0	951
		Marvin Nichols (328) Strategy for NTMWD, TRWD, and UTRWD	TRWD	R	2021 Recommended	2050		0	3,911
		Reuse- Cleburne	Cleburne	R	2021 Recommended	2030		5,839	7,045
		TRWD - Aquifer Storage and Recovery Pilot	TRWD	R	2021 Recommended	2040		0	117
		TRWD - Carrizo-Wilcox Groundwater	TRWD	R	2021 Recommended	2040		0	307
		TRWD - Reuse from TRA Central WWTP	TRWD	R	2021 Recommended	2040		0	1,401
		TRWD - Tehuacana	TRWD	R	2021 Recommended	2040		0	492
		TRWD - Unallocated Supply Utilization	TRWD	R	2021 Recommended	2040		0	204
		Wright Patman Reallocation for NTMWD, TRWD, and UTRWD	TRWD	R	2021 Recommended	2070		0	1,323
							Need after Recommended WMS	7,085	14,831

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Johnson County									
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online			
							2030	2080	
<b>Johnson</b>	<b>Double Diamond Utilities</b>						<b>Need/Surplus:</b>	<b>-712</b>	<b>-2,194</b>
							Advanced Conservation	314	2,693
							Tier-2 Needs	-398	499
		Trinity Aquifer Development	Double Diamond Utilities	R	2026 Recommended	2030		640	100
							Need after Recommended WMS	242	599
<b>Johnson</b>	<b>Godley</b>						<b>Need/Surplus:</b>	<b>12</b>	<b>-112</b>
							Tier-2 Needs	12	-112
		Trinity Aquifer Development	Godley	R	2021 Recommended - Updated Supply	2030		87	57
							Need after Recommended WMS	99	-55

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Johnson County								
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	2030	2080
							<b>Johnson</b>	<b>Grandview</b>
						Advanced Conservation	16	25
						Tier-2 Needs	89	-103
		Woodbine Aquifer Development	Grandview	R	2026 Recommended	2060	0	125
						Need after Recommended WMS	89	22
<b>Johnson</b>	<b>Irrigation, Johnson</b>					<b>Need/Surplus:</b>	<b>-245</b>	<b>-245</b>
						Advanced Conservation	16	38
						Tier-2 Needs	-229	-207

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Johnson County								
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	2030	2080
							<b>Johnson</b>	<b>Johnson County SUD</b>
						Tier-2 Needs	-2,125	-10,616
		Conservation - Johnson County SUD	Johnson Cty SUD	R	2021 Recommended	2030	1	10
		Water Loss Control - Johnson County SUD	Johnson Cty SUD	R	2021 Recommended	2030	2	0
		TRWD - Cedar Creek Wetlands	TRWD	R	2021 Recommended	2030	636	923
		TRWD - Additional Cedar Creek and Richland-Chambers	TRWD	R	2021 Recommended	2030	1,010	427
		Marvin Nichols (328) Strategy for NTMWD, TRWD, and UTRWD	TRWD	R	2021 Recommended	2050	0	1,757
		Trinity Aquifer Development	Johnson Cty SUD	R	2021 Recommended - Updated Supply	2080	60	1,274
		TRWD - Aquifer Storage and Recovery Pilot	TRWD	R	2021 Recommended	2030	42	53
		TRWD - Carrizo-Wilcox Groundwater	TRWD	R	2021 Recommended	2040	0	139
		TRWD - Reuse from TRA Central WWTP	TRWD	R	2021 Recommended	2030	332	629
		TRWD - Tehuacana	TRWD	R	2021 Recommended	2040	0	221
		TRWD - Unallocated Supply Utilization	TRWD	R	2021 Recommended	2030	50	91
		Water Loss Reduction - Jonah Water SUD	Johnson Cty SUD	R	2026 Recommended	2030	162	611
		Woodbine Aquifer Development	Johnson Cty SUD	R	2026 Recommended	2030	100	668
		Wright Patman Reallocation for NTMWD, TRWD, and UTRWD	TRWD	R	2021 Recommended	2070	0	594
		Increase SWATS WTP Capacity - Acton MUD, Johnson County SUD	Johnson Cty SUD	R	2021 Recommended	2040	0	1,524
		Trinity - Johnson County ASR	Johnson Cty SUD	A	2021 Alternative	2030	6,082	6,082
						Need after Recommended WMS	270	-1,695

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Johnson County									
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	2030	2080	
							<b>Johnson</b>	<b>Parker WSC</b>	
							Advanced Conservation	4	4
							Tier-2 Needs	306	327
		Trinity Aquifer Development	Parker WSC	R	2021 Recommended	2080		0	124
							Need after Recommended WMS	306	451
<b>Johnson</b>	<b>Rio Vista</b>						<b>Need/Surplus:</b>	<b>90</b>	<b>-78</b>
							Advanced Conservation	14	31
							Tier-2 Needs	104	-47
							Need after Recommended WMS	104	-47
<b>Johnson</b>	<b>Steam-Electric Power, Johnson</b>						<b>Need/Surplus:</b>	<b>-571</b>	<b>-571</b>
							Tier-2 Needs	-571	-571
		Reuse- Cleburne	Steam-Electric Power, Johnson	R	2021 Recommended	2030		571	571
							Need after Recommended WMS	0	0
									45

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Johnson County									
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	2030	2080	
							<b>Johnson</b>	<b>Venus</b>	
							Advanced Conservation	33	43
							Tier-2 Needs	2	253
		TRWD - Cedar Creek Wetlands	TRWD	R	2021 Recommended	2030		18	72
		TRWD - Additional Cedar Creek and Richland-Chambers	TRWD	R	2021 Recommended	2030		28	34
		Marvin Nichols (328) Strategy for NTMWD, TRWD, and UTRWD	TRWD	R	2021 Recommended	2050		0	138
		Midlothian - Unallocated Supply Utilization	Midlothian	R	2021 Recommended	2080		180	70
		TRWD - Aquifer Storage and Recovery Pilot	TRWD	R	2021 Recommended	2030		1	4
		TRWD - Carrizo-Wilcox Groundwater	TRWD	R	2021 Recommended	2080		0	9
		TRWD - Reuse from TRA Central WWTP	TRWD	R	2021 Recommended	2030		10	49
		TRWD - Tehuacana	TRWD	R	2021 Recommended	2040		0	17
		TRWD - Unallocated Supply Utilization	TRWD	R	2021 Recommended	2030		2	8
		Wright Patman Reallocation for NTMWD, TRWD, and UTRWD	TRWD	R	2021 Recommended	2070		0	46
							Need after Recommended WMS	241	700

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Jones County								
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	2030	2080
							<b>Jones</b>	<b>County-Other, Jones</b>
						Tier-2 Needs	-567	-289
		Purchase Water from Abilene	County-Other, Jones	R	2021 Recommended	2030	82	121
		Seymour Aquifer Development	County-Other, Jones	R	2026 Recommended	2030	400	411
						Need after Recommended WMS	-85	243
<b>Jones</b>	<b>Irrigation, Jones</b>						<b>-64</b>	<b>-64</b>
						Advanced Conservation	81	189
						Tier-2 Needs	17	125
		Purchase Water from Abilene	Irrigation, Jones	R	2021 Recommended	2030	50	0
						Need after Recommended WMS	67	125

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Jones County								
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	2030	2080
							<b>Jones</b>	<b>Hamlin</b>
						Advanced Conservation	24	39
						Tier-2 Needs	233	364
						Need after Recommended WMS	233	364
<b>Jones</b>	<b>Stamford</b>						<b>470</b>	<b>818</b>
						Advanced Conservation	59	146
						Water Loss Reduction	245	128
						Tier-2 Needs	774	1,092
						Need after Recommended WMS	774	1,092

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Kent County								
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	2030	2080
							<b>Kent</b>	<b>County-Other, Kent</b>
		Seymour Aquifer Development	County-Other, Kent	R	2026 Recommended	2030	20	20
							6	3
<b>Kent</b>	<b>Jayton</b>						<b>152</b>	<b>140</b>
							8	21
							160	161
							160	161

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Knox County								
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	2030	2080
							<b>Knox</b>	<b>Benjamin</b>
							5	18
							-21	-17
							-21	-17
<b>Knox</b>	<b>County-Other, Knox</b>						<b>45</b>	<b>75</b>
							45	75
							45	75
<b>Knox</b>	<b>Irrigation, Knox</b>						<b>-10,331</b>	<b>-10,212</b>
							1,111	2,592
							-9,220	-7,620
		Blaine Aquifer Development	Irrigation, Knox	R	2021 Recommended	2030	383	383
							-8,837	-7,237

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Knox County									
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	Decade Online		
							2030	2080	
<b>Knox</b>	<b>Knox City</b>						<b>Need/Surplus:</b>	<b>-237</b>	<b>-241</b>
							Advanced Conservation	19	87
							Water Loss Reduction	55	54
							Tier-2 Needs	-163	-100
		NCTMWA Lake Creek Reservoir	North Central Texas Municipal Water Authority	R	2021 Recommended - Updated Supply	2050		0	202
							Need after Recommended WMS	-163	102
<b>Knox</b>	<b>Munday</b>						<b>Need/Surplus:</b>	<b>-219</b>	<b>-253</b>
							Advanced Conservation	17	50
							Tier-2 Needs	-202	-203
		NCTMWA Lake Creek Reservoir	North Central Texas Municipal Water Authority	R	2021 Recommended - Updated Supply	2050		0	234
							Need after Recommended WMS	-202	31

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Nolan County									
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	Decade Online		
							2030	2080	
<b>Nolan</b>	<b>County-Other, Nolan</b>						<b>Need/Surplus:</b>	<b>4</b>	<b>103</b>
							Tier-2 Needs	4	103
							Need after Recommended WMS	4	103
<b>Nolan</b>	<b>Irrigation, Nolan</b>						<b>Need/Surplus:</b>	<b>-9,634</b>	<b>-8,847</b>
							Advanced Conservation	389	852
							Tier-2 Needs	-9,245	-7,995
							Need after Recommended WMS	-9,245	-7,995
<b>Nolan</b>	<b>Manufacturing, Nolan</b>						<b>Need/Surplus:</b>	<b>-42</b>	<b>-154</b>
							Advanced Conservation	16	45
							Tier-2 Needs	-26	-109
		Cedar Ridge Reservoir	Sweetwater	R	2021 Recommended - Updated Supply	2080		0	0
		Edwards Aquifer Development	Manufacturing, Nolan	R	2026 Recommended	2030		34	133
							Need after Recommended WMS	8	24

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Nolan County									
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	2030	2080	
<b>Nolan</b>	<b>Mining, Nolan</b>						<b>Need/Surplus:</b>	<b>-4</b>	<b>-5</b>
							Advanced Conservation	2	5
							Tier-2 Needs	-2	0
		Cedar Ridge Reservoir	Sweetwater	R	2021 Recommended - Updated Supply	2040	0	131	
		Edwards Aquifer Development	Mining, Nolan	R	2026 Recommended	2030	10	0	
		Oak Creek Reservoir-Conjunctive Use	Sweetwater	R	2021 Recommended	2080	0	0	
							Need after Recommended WMS	8	131
<b>Nolan</b>	<b>Roscoe</b>						<b>Need/Surplus:</b>	<b>-107</b>	<b>-83</b>
							Advanced Conservation	18	44
							Tier-2 Needs	-89	-39
		Cedar Ridge Reservoir	Roscoe	R	2021 Recommended - Updated Supply	2040	0	107	
		Edwards Aquifer Development	Roscoe	R	2026 Recommended	2030	89	0	
		Oak Creek Reservoir-Conjunctive Use	Sweetwater	R	2021 Recommended	2080	0	0	
							Need after Recommended WMS	0	68

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Nolan County									
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	2030	2080	
<b>Nolan</b>	<b>Sweetwater</b>						<b>Need/Surplus:</b>	<b>-145</b>	<b>-1</b>
							Advanced Conservation	0	0
							Water Loss Reduction	15	14
							Tier-2 Needs	-130	13
		Cedar Ridge Reservoir	Abilene	R	2021 Recommended - Updated Supply	2040	0	1,839	
		Oak Creek Reservoir-Conjunctive Use	Sweetwater	R	2021 Recommended - Updated Supply	2030	475	660	
		Subordination - Oak Creek Reservoir	Sweetwater	R	2021 Recommended - Updated Supply	2030	540	393	
							Need after Recommended WMS	885	2,905
<b>Nolan</b>	<b>The Bitter Creek WSC</b>						<b>Need/Surplus:</b>	<b>-138</b>	<b>-199</b>
							Water Loss Reduction	120	151
							Tier-2 Needs	-18	-48
		Blaine Aquifer Development	The Bitter Creek WSC	R	2026 Recommended	2030	50	50	
		Cedar Ridge Reservoir	The Bitter Creek WSC	R	2021 Recommended - Updated Supply	2040	0	229	
		Oak Creek Reservoir-Conjunctive Use	Sweetwater	R	2021 Recommended	2080	0	0	
							Need after Recommended WMS	32	231

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Palo Pinto County									
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	Decade Online		
							2030	2080	
<b>Palo Pinto</b>	<b>County-Other, Palo Pinto</b>						<b>Need/Surplus:</b>	<b>-167</b>	<b>-160</b>
							Tier-2 Needs	-167	-160
		Purchase Additional Supply from the City of Mineral Wells	Mineral Wells	R	2021 Recommended	2030		190	177
							Need after Recommended WMS	23	17
<b>Palo Pinto</b>	<b>Gordon</b>						<b>Need/Surplus:</b>	<b>-166</b>	<b>-161</b>
							Advanced Conservation	14	60
							Water Loss Reduction	16	16
							Tier-2 Needs	-136	-85
		Trinity Aquifer Development	Strawn	R	2021 Recommended	2080		113	121
							Need after Recommended WMS	-23	36

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Palo Pinto County									
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	Decade Online		
							2030	2080	
<b>Palo Pinto</b>	<b>Irrigation, Palo Pinto</b>						<b>Need/Surplus:</b>	<b>-1,492</b>	<b>-1,583</b>
							Advanced Conservation	65	152
							Tier-2 Needs	-1,427	-1,431
		Trinity Aquifer Development	Irrigation, Palo Pinto	R	2021 Recommended	2080		1,672	1,725
		Turkey Peak Reservoir	Palo Pinto County MWD 1	R	2021 Recommended	2030		2,175	2,115
							Need after Recommended WMS	2,420	2,409
<b>Palo Pinto</b>	<b>Livestock, Palo Pinto</b>						<b>Need/Surplus:</b>	<b>18</b>	<b>-144</b>
							Tier-2 Needs	18	-144
							Need after Recommended WMS	18	-144
<b>Palo Pinto</b>	<b>Manufacturing, Palo Pinto</b>						<b>Need/Surplus:</b>	<b>-18</b>	<b>-23</b>
							Advanced Conservation	1	2
							Tier-2 Needs	-17	-21
							Need after Recommended WMS	-17	-21

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Palo Pinto County								
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	Need/Surplus:	
							2030	2080
<b>Palo Pinto</b>	<b>Mineral Wells</b>						<b>-920</b>	<b>-2,315</b>
							Advanced Conservation	276 846
							Water Loss Reduction	914 1,062
							Tier-2 Needs	270 -407
	Turkey Peak Reservoir	Mineral Wells	R	2021 Recommended		2030	543	1,386
							Need after Recommended WMS	813 979
<b>Palo Pinto</b>	<b>Mining, Palo Pinto</b>						<b>-25</b>	<b>-29</b>
							Advanced Conservation	1 2
							Tier-2 Needs	-24 -27
	Trinity Aquifer Development	Mining, Palo Pinto	R	2021 Recommended		2080	649	189
							Need after Recommended WMS	625 162
<b>Palo Pinto</b>	<b>Santo SUD</b>						<b>40</b>	<b>25</b>
							Tier-2 Needs	40 25
	Purchase Additional Supply from the City of Mineral Wells	Mineral Wells	R	2021 Recommended - Updated Supply		2070	0	15
							Need after Recommended WMS	40 40

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Palo Pinto County								
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	Need/Surplus:	
							2030	2080
<b>Palo Pinto</b>	<b>Strawn</b>						<b>-14</b>	<b>-10</b>
							Advanced Conservation	10 37
							Water Loss Reduction	22 21
							Tier-2 Needs	18 48
	Trinity Aquifer Development	Strawn	R	2021 Recommended		2080	27	29
							Need after Recommended WMS	45 77
<b>Palo Pinto</b>	<b>Possum Kingdom WSC</b>						<b>151</b>	<b>173</b>
							Advanced Conservation	51 342
							Tier-2 Needs	202 515
							Need after Recommended WMS	202 515
<b>Palo Pinto</b>	<b>Sportsmans World MUD</b>						<b>14</b>	<b>16</b>
							Advanced Conservation	7 43
							Tier-2 Needs	21 59
							Need after Recommended WMS	21 59

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## Shackleford County

Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	2030	2080
<b>Shackleford</b>	<b>Albany</b>						<b>193</b>	<b>437</b>
						<b>Need/Surplus:</b>		
						Advanced Conservation	47	145
						Water Loss Reduction	121	67
						Tier-2 Needs	361	649
						Need after Recommended WMS	361	649

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## Stephens County

Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	2030	2080
<b>Stephens</b>	<b>Fort Griffin SUD</b>						<b>2</b>	<b>2</b>
						<b>Need/Surplus:</b>		
						Advanced Conservation	16	33
						Tier-2 Needs	18	35
		Purchase Treated Water from Albany	Fort Griffin SUD	R	2021 Recommended	2030	2	2
						Need after Recommended WMS	20	37
<b>Stephens</b>	<b>Irrigation, Stephens</b>						<b>-122</b>	<b>-122</b>
						<b>Need/Surplus:</b>		
						Advanced Conservation	5	11
						Tier-2 Needs	-117	-111
		Other Aquifer Development	Irrigation, Stephens	R	2021 Recommended	2030	30	30
						Need after Recommended WMS	-87	-81
<b>Stephens</b>	<b>Stephens Regional SUD</b>						<b>-42</b>	<b>-121</b>
						<b>Need/Surplus:</b>		
						Advanced Conservation	42	121
						Tier-2 Needs	0	0
						Need after Recommended WMS	0	0

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Stephens County									
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	2030	2080	
							Stephens	Stephens Regional SUD	
							Advanced Conservation	42	121
							Tier-2 Needs	0	0
							Need after Recommended WMS	0	0
Stephens	Breckenridge						<b>Need/Surplus:</b>	<b>774</b>	<b>1,071</b>
							Advanced Conservation	69	66
							Tier-2 Needs	843	1,137
							Need after Recommended WMS	843	1,137

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Stonewall County									
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	2030	2080	
							Stonewall	Aspermont	
							Advanced Conservation	21	97
							Tier-2 Needs	-16	115
		Upper Basin Chloride Control Project	Salt Fork Water Quality Corporation	R	2021 Recommended	2030		249	249
							Need after Recommended WMS	233	364

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Taylor County								
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	2030	2080
							<b>Taylor</b>	<b>Abilene</b>
						Advanced Conservation	1,995	7,756
						Tier-2 Needs	1,995	-2,965
		Cedar Ridge Reservoir	Abilene	R	2021 Recommended - Updated Supply	2040	0	10,100
		Subordination - OH Ivie Non System Portion	Colorado River MWD	R	2021 Recommended - Updated Supply	2040	0	849
		West Texas Water Partnership	Colorado River MWD	R	2026 Recommended	2040	0	522
		West Texas Water Partnership (OH Ivie Non System Portion)	Colorado River MWD	R	2021 Recommended	2030	2,710	6,907
						Need after Recommended WMS	4,705	15,413
								63

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Taylor County								
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	2030	2080
							<b>Taylor</b>	<b>Irrigation, Taylor</b>
						Advanced Conservation	42	100
						Tier-2 Needs	-1,015	-957
		Cedar Ridge Reservoir	Abilene	R	2021 Recommended - Updated Supply	2040	0	1,152
						Need after Recommended WMS	-1,015	195
<b>Taylor</b>	<b>Lawn</b>					<b>Need/Surplus:</b>	<b>0</b>	<b>-4</b>
						Advanced Conservation	4	4
						Tier-2 Needs	4	0
						Need after Recommended WMS	4	0
<b>Taylor</b>	<b>Manufacturing, Taylor</b>					<b>Need/Surplus:</b>	<b>-49</b>	<b>-865</b>
						Advanced Conservation	22	61
						Tier-2 Needs	-27	-804
						Need after Recommended WMS	-27	-804
								64

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Taylor County									
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	Decade Online		
							2030	2080	
<b>Taylor</b>	<b>Mining, Taylor</b>						<b>Need/Surplus:</b>	<b>-380</b>	<b>-437</b>
							Advanced Conservation	15	40
							Tier-2 Needs	-365	-397
		Cedar Ridge Reservoir	Abilene	R	2021 Recommended - Updated Supply	2040		0	159
							Need after Recommended WMS	-365	-238
<b>Taylor</b>	<b>View Caps WSC</b>						<b>Need/Surplus:</b>	<b>-11</b>	<b>-13</b>
							Advanced Conservation	11	13
							Tier-2 Needs	0	0
							Need after Recommended WMS	0	0
<b>Taylor</b>	<b>Tye</b>						<b>Need/Surplus:</b>	<b>0</b>	<b>0</b>
							Advanced Conservation	0	0
							Tier-2 Needs	0	0
		Cedar Ridge Reservoir	Abilene	A	2021 Alternative - Updated Supply	2040		0	13
							Need after Recommended WMS	0	0

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Throckmorton County									
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	Decade Online		
							2030	2080	
<b>Throckmorton</b>	<b>Mining, Throckmorton</b>						<b>Need/Surplus:</b>	<b>-8</b>	<b>-8</b>
							Advanced Conservation	3	8
							Tier-2 Needs	-5	0
		Cross Timbers Aquifer Development	Mining, Throckmorton	R	2021 Recommended	2030		84	84
							Need after Recommended WMS	79	84
<b>Throckmorton</b>	<b>Throckmorton</b>						<b>Need/Surplus:</b>	<b>-96</b>	<b>-105</b>
							Advanced Conservation	12	35
							Tier-2 Needs	-84	-70
		New Throckmorton Reservoir	Throckmorton	R	2021 Recommended - Updated Supply	2050		0	73
							Need after Recommended WMS	-84	66

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Young County									
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	Decade Online		
							2030	2080	
Young	County-Other, Young						<b>Need/Surplus:</b>	<b>-147</b>	<b>-203</b>
							Tier-2 Needs	-147	-203
		Cross Timbers Aquifer Development	County-Other, Young	R	2026 Recommended	2030		150	150
		Municipal Conservation - Young County Other	County-Other, Young	R	2021 Recommended	2040		0	4
							Need after Recommended WMS	3	-49
Young	Fort Belknap WSC						<b>Need/Surplus:</b>	<b>-126</b>	<b>-335</b>
							Water Loss Reduction	159	173
							Tier-2 Needs	33	-162
		Purchase Additional Water from City of Graham	Graham	R	2021 Recommended	2030		95	95
							Need after Recommended WMS	128	-67
Young	Graham						<b>Need/Surplus:</b>	<b>-1,470</b>	<b>-1,585</b>
							Advanced Conservation	209	1,202
							Tier-2 Needs	-1,261	-383
		New Throckmorton Reservoir	Graham	R	2021 Recommended - Updated Supply	2050		0	549
							Need after Recommended WMS	-1,261	166

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Young County									
Primary County	WUG Name	WMS Strategy	Sponsor Name	Type	Note	Decade Online	Decade Online		
							2030	2080	
Young	Irrigation, Young						<b>Need/Surplus:</b>	<b>-614</b>	<b>-614</b>
							Advanced Conservation	19	45
							Tier-2 Needs	-595	-569
		Cross Timbers Aquifer Development	Irrigation, Young	R	2021 Recommended	2080		450	450
							Need after Recommended WMS	-145	-119
Young	Manufacturing, Young						<b>Need/Surplus:</b>	<b>-9</b>	<b>-6</b>
							Advanced Conservation	3	8
							Tier-2 Needs	-6	2
		Cross Timbers Aquifer Development	Manufacturing, Young	R	2026 Recommended	2030		10	10
							Need after Recommended WMS	4	12
Young	Steam-Electric Power, Young						<b>Need/Surplus:</b>	<b>-610</b>	<b>-628</b>
							Tier-2 Needs	-610	-628
							Need after Recommended WMS	-610	-628

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# Wholesale Water Providers

(WWPs)



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## Wholesale Water Provider (WWP) from TAC §357.10(44)

- Any person or entity, including river authorities and irrigation districts, that:
  - Delivers or sells water wholesale (treated or raw) to WUGs or other WWPs, or
  - That the RWPG expects or recommends to deliver or sell water wholesale to WUGs or other WWPs during the period covered by the plan.
- Not already a WUG
- Needs = shortages from Supply / Demand comparisons
- Supplies:
  - Own sources – e.g., GW, SW
  - Purchased sources
  - Constrained by capacity to treat or deliver
- Demands
  - Projected Needs – does not account for any WMSs. Represents total need for seller and all customers.
  - Contractual obligations
    - Full contract amount
    - “Meets” contracts
  - Supplies for strategies of others
- Ongoing coordination

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Double Diamond Utilities, Alvarado, and Keene									
WWP Name	WMS Strategy	Type	Note	Decade Online	Actual Need / Strategy Supply (ac-ft/yr)		Contractual Need / Strategy Supply (ac-ft/yr)		
					2030	2080	2030	2080	
<b>Double Diamond Utilities</b>					<b>Need/Surplus:</b>		<b>-712</b>	<b>-2,194</b>	
					Advanced Conservation	314	2,693	314	2,693
					Tier-2 Needs	-398	499	-398	499
	Trinity Aquifer Development	R	2026 Recommended	2030		640	100	640	100
					<i>Need after Recommended WMS</i>	242	599	242	599
<b>Alvarado</b>					<b>Need/Surplus:</b>		<b>1,568</b>	<b>1,064</b>	
					Tier-2 Needs	1,568	1,064	1,568	1,064
					<i>Need after Recommended WMS</i>	1,568	1,064	1,568	1,064
<b>Keene</b>					<b>Need/Surplus:</b>		<b>689</b>	<b>495</b>	
					Tier-2 Needs	689	495	689	495
					<i>Need after Recommended WMS</i>	689	495	689	495

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Bethesda WSC									
WMS Strategy	Type	Note	Decade Online	Projected Need / Strategy Supply (ac-ft/yr)		Contractual Need / Strategy Supply (ac-ft/yr)			
				2030	2080	2030	2080		
				<b>Need/Surplus:</b>		<b>-2,401</b>	<b>-6,403</b>		
					Advanced Conservation	592	3,092	592	3,092
					Tier-2 Needs	-1,809	-3,311	-1,809	-3,311
	TRWD - Cedar Creek Wetlands	R	2021 Recommended	2030	121	563	121	563	
	TRWD - Additional Cedar Creek and Richland-Chambers	R	2021 Recommended	2030	194	259	194	259	
	Marvin Nichols (328) Strategy for NTMWD, TRWD, and JTRWD	R	2021 Recommended - Updated Supply	2060	0	1,068	0	1,068	
	Trinity Aquifer Development	R	2026 Recommended	2030	1,412	0	1,412	0	
	TRWD - Aquifer Storage and Recovery Pilot	R	2021 Recommended - Updated Supply	2080	0	32	0	32	
	TRWD - Carrizo-Wilcox Groundwater	R	2021 Recommended - Updated Supply	2040	0	84	0	84	
	TRWD - Reuse from TRA Central WWTP	R	2021 Recommended	2030	63	384	63	384	
	TRWD - Tehuacana	R	2021 Recommended	2040	0	134	0	134	
	Woodbine Aquifer Development	R	2026 Recommended	2080	0	369	0	369	
	Wright Patman Reallocation for NTMWD, TRWD, and JTRWD	R	2021 Recommended	2070	0	362	0	362	
					<i>Need after Recommended WMS</i>	-19	-56	-19	-56

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Burleson							
WMS Strategy	Type	Note	Decade Online	Projected Need / Strategy Supply (ac-ft/yr)		Contractual Need / Strategy Supply (ac-ft/yr)	
				2030	2080	2030	2080
<b>Need/Surplus:</b>				<b>-1,089</b>	<b>-6,280</b>	<b>-1,089</b>	<b>-6,280</b>
			Advanced Conservation	0	0	0	0
			Tier-2 Needs	-1,089	-6,280	-1,089	-6,280
TRWD - Cedar Creek Wetlands	R	2021 Recommended	2030	304	928	304	928
TRWD - Additional Cedar Creek and Richland-Chambers	R	2021 Recommended	2030	484	430	484	430
Marvin Nichols (328) Strategy for NTMWD, TRWD, and JTRWD	R	2021 Recommended	2050	0	1,767	0	1,767
TRWD - Aquifer Storage and Recovery Pilot	R	2021 Recommended	2030	20	53	20	53
TRWD - Carrizo-Wilcox Groundwater	R	2021 Recommended	2040	0	268	0	268
TRWD - Reuse from TRA Central WWTP	R	2021 Recommended	2030	159	632	159	632
TRWD - Tehuacana	R	2021 Recommended	2040	0	222	0	222
TRWD - Unallocated Supply Utilization	R	2021 Recommended	2030	24	92	24	92
Wright Patman Reallocation for NTMWD, TRWD, and JTRWD	R	2021 Recommended	2070	0	598	0	598
<i>Need after Recommended WMS</i>				<b>-98</b>	<b>-1,290</b>	<b>-98</b>	<b>-1,290</b>
							73

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Cleburne							
WMS Strategy	Type	Note	Decade Online	Projected Need / Strategy Supply (ac-ft/yr)		Contractual Need / Strategy Supply (ac-ft/yr)	
				2030	2080	2030	2080
<b>Need/Surplus:</b>				<b>103</b>	<b>-6,631</b>	<b>674</b>	<b>-6,060</b>
			Advanced Conservation	572	3,084	572	3,084
			Tier-2 Needs	675	-3,547	1,246	-2,976
TRWD - Cedar Creek Wetlands	R	2021 Recommended	2040	0	2,056	0	2,056
TRWD - Additional Cedar Creek and Richland-Chambers	R	2021 Recommended	2040	0	951	0	951
Marvin Nichols (328) Strategy for NTMWD, TRWD, and JTRWD	R	2021 Recommended	2050	0	3,911	0	3,911
Reuse- Cleburne	R	2021 Recommended	2030	5,839	7,045	5,839	7,045
TRWD - Aquifer Storage and Recovery Pilot	R	2021 Recommended	2040	0	117	0	117
TRWD - Carrizo-Wilcox Groundwater	R	2021 Recommended	2040	0	307	0	307
TRWD - Reuse from TRA Central WWTP	R	2021 Recommended	2040	0	1,401	0	1,401
TRWD - Tehuacana	R	2021 Recommended	2040	0	492	0	492
TRWD - Unallocated Supply Utilization	R	2021 Recommended	2040	0	204	0	204
Wright Patman Reallocation for NTMWD, TRWD, and JTRWD	R	2021 Recommended	2070	0	1,323	0	1,323
<i>Need after Recommended WMS</i>				<b>6,514</b>	<b>14,260</b>	<b>7,085</b>	<b>14,831</b>
							74

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Johnson County SUD							
WMS Strategy	Type	Note	Decade Online	Projected Need / Strategy Supply (ac-ft/yr)		Contractual Need / Strategy Supply (ac-ft/yr)	
				2030	2080	2030	2080
<b>Need/Surplus:</b>				<b>-2,125</b>	<b>-10,616</b>	<b>-2,125</b>	<b>-10,616</b>
Tier-2 Needs				-2,125	-10,616	-2,125	-10,616
Conservation - Johnson County SUD	R	2021 Recommended	2030	1	10	1	10
Conservation, Water Loss Control - Johnson County SUD	R	2021 Recommended	2030	2	0	2	0
TRWD - Cedar Creek Wetlands	R	2021 Recommended	2030	636	923	636	923
TRWD - Additional Cedar Creek and Richland-Chambers	R	2021 Recommended	2030	1,010	427	1,010	427
Marvin Nichols (328) Strategy for NTMWD, TRWD, and JTRWD	R	2021 Recommended	2050	0	1,757	0	1,757
Trinity - Johnson County ASR	A	2021 Alternative	2030	6,082	6,082	6,082	6,082
Trinity Aquifer Development	R	2021 Recommended - Updated Supply	2080	60	1,274	60	1,274
TRWD - Aquifer Storage and Recovery Pilot	R	2021 Recommended	2030	42	53	42	53
TRWD - Carrizo-Wilcox Groundwater	R	2021 Recommended	2040	0	139	0	139
TRWD - Reuse from TRA Central WWTP	R	2021 Recommended	2030	332	629	332	629
TRWD - Tehuacana	R	2021 Recommended	2040	0	221	0	221
TRWD - Unallocated Supply Utilization	R	2021 Recommended	2030	50	91	50	91
Water Loss Reduction - Jonah Water SUD	R	2026 Recommended	2030	162	611	162	611
Woodbine Aquifer Development	R	2026 Recommended	2030	100	668	100	668
Wright Patman Reallocation for NTMWD, TRWD, and JTRWD	R	2021 Recommended	2070	0	594	0	594
Increase SWATS WTP Capacity - Acton MUD, Johnson County SUD	R	2021 Recommended	2040	0	1,524	0	1,524
<i>Need after Recommended WMS</i>				<i>270</i>	<i>-1,695</i>	<i>270</i>	<i>-1,695</i>

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Venus							
WMS Strategy	Type	Note	Decade Online	Projected Need / Strategy Supply (ac-ft/yr)		Contractual Need / Strategy Supply (ac-ft/yr)	
				2030	2080	2030	2080
<b>Need/Surplus:</b>				<b>-31</b>	<b>210</b>	<b>-31</b>	<b>210</b>
Advanced Conservation				33	43	33	43
Tier-2 Needs				2	253	2	253
TRWD - Cedar Creek Wetlands	R	2021 Recommended	2030	18	72	18	72
TRWD - Additional Cedar Creek and Richland-Chambers	R	2021 Recommended	2030	28	34	28	34
Marvin Nichols (328) Strategy for NTMWD, TRWD, and JTRWD	R	2021 Recommended	2050	0	138	0	138
Midlothian - Unallocated Supply Utilization	R	2021 Recommended	2080	180	70	180	70
TRWD - Aquifer Storage and Recovery Pilot	R	2021 Recommended	2030	1	4	1	4
TRWD - Carrizo-Wilcox Groundwater	R	2021 Recommended	2080	0	9	0	9
TRWD - Reuse from TRA Central WWTP	R	2021 Recommended	2030	10	49	10	49
TRWD - Tehuacana	R	2021 Recommended	2040	0	17	0	17
TRWD - Unallocated Supply Utilization	R	2021 Recommended	2030	2	8	2	8
Wright Patman Reallocation for NTMWD, TRWD, and JTRWD	R	2021 Recommended	2070	0	46	0	46
<i>Need after Recommended WMS</i>				<i>241</i>	<i>700</i>	<i>241</i>	<i>700</i>

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Stephenville, Dublin, Cisco, and County-Other, Erath									
WWP Name	WMS Strategy	Type	Note	Decade Online	Actual Need / Strategy Supply (ac-ft/yr)		Contractual Need / Strategy Supply (ac-ft/yr)		
					2030	2080	2030	2080	
<b>Cisco</b>					<b>Need/Surplus:</b>	<b>120</b>	<b>-12</b>	<b>120</b>	<b>-12</b>
					Advanced Conservation	54	117	54	117
					Tier-2 Needs	174	105	174	105
					<i>Need after Recommended WMS</i>	<i>174</i>	<i>105</i>	<i>174</i>	<i>105</i>
<b>County-Other, Erath</b>					<b>Need/Surplus:</b>	<b>838</b>	<b>-559</b>	<b>857</b>	<b>-559</b>
					Water Loss Reduction	439	690	439	690
					Tier-2 Needs	1,277	131	1,296	131
Trinity Aquifer Development					R 2021 Recommended	2060	0	283	0
					<i>Need after Recommended WMS</i>	<i>1,277</i>	<i>414</i>	<i>1,296</i>	<i>414</i>
<b>Dublin</b>					<b>Need/Surplus:</b>	<b>177</b>	<b>-216</b>	<b>196</b>	<b>343</b>
					Tier-2 Needs	177	-216	196	343
					<i>Need after Recommended WMS</i>	<i>177</i>	<i>-216</i>	<i>196</i>	<i>343</i>
<b>Stephenville</b>					<b>Need/Surplus:</b>	<b>1,652</b>	<b>-1,260</b>	<b>1,671</b>	<b>-1,260</b>
					Tier-2 Needs	1,652	-1,260	1,671	-1,260
Trinity Aquifer Development					R 2021 Recommended	2030	318	395	318
					<i>Need after Recommended WMS</i>	<i>1,970</i>	<i>-865</i>	<i>1,989</i>	<i>-865</i>
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Acton MUD, Granbury, and County-Other, Hood									
WWP Name	WMS Strategy	Type	Note	Decade Online	Actual Need / Strategy Supply (ac-ft/yr)		Contractual Need / Strategy Supply (ac-ft/yr)		
					2030	2080	2030	2080	
<b>Acton MUD</b>					<b>Need/Surplus:</b>	<b>-451</b>	<b>-4,618</b>	<b>2,038</b>	<b>-407</b>
					Advanced Conservation	170	771	170	771
					Tier-2 Needs	-281	-3,847	2,208	364
Increase SWATS WTP Capacity - Acton MUD, Johnson County SUD					R 2021 Recommended	2040	0	3,752	0
Trinity Aquifer Development					R 2021 Recommended	2080	51	418	51
					<i>Need after Recommended WMS</i>	<i>-230</i>	<i>323</i>	<i>2,259</i>	<i>4,534</i>
<b>County-Other, Hood</b>					<b>Need/Surplus:</b>	<b>-2,489</b>	<b>-4,211</b>	<b>-2,489</b>	<b>-4,211</b>
					Tier-2 Needs	-2,489	-4,211	-2,489	-4,211
Trinity Aquifer Development					R 2021 Recommended - Updated Supply	2030	1,950	740	1,950
					<i>Need after Recommended WMS</i>	<i>-539</i>	<i>-3,471</i>	<i>-539</i>	<i>-3,471</i>
<b>Granbury</b>					<b>Need/Surplus:</b>	<b>-767</b>	<b>-3,259</b>	<b>-767</b>	<b>-3,259</b>
					Advanced Conservation	225	986	225	986
					Tier-2 Needs	-542	-2,273	-542	-2,273
Granbury North Water Treatment Plant					R 2021 Recommended	2030	2,800	2,800	2,800
					<i>Need after Recommended WMS</i>	<i>2,258</i>	<i>527</i>	<i>2,258</i>	<i>527</i>
									78

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Gordon and Mineral Wells									
WWP Name	WMS Strategy	Type	Note	Decade Online	Actual Need / Strategy Supply (ac-ft/yr)		Contractual Need / Strategy Supply (ac-ft/yr)		
					2030	2080	2030	2080	
<b>Gordon</b>					<b>Need/Surplus:</b>	<b>-166</b>	<b>-720</b>	<b>-166</b>	<b>-161</b>
					Advanced Conservation	14	60	14	60
					Water Loss Reduction	16	16	16	16
					Tier-2 Needs	-136	-644	-136	-85
	Trinity Aquifer Development	R	2021 Recommended	2080		113	121	113	121
					<i>Need after Recommended WMS</i>	<b>-23</b>	<b>-523</b>	<b>-23</b>	<b>36</b>
<b>Mineral Wells</b>					<b>Need/Surplus:</b>	<b>-3,190</b>	<b>-43,184</b>	<b>-1,109</b>	<b>-2,322</b>
					Advanced Conservation	276	846	276	846
					Water Loss Reduction	914	1,062	914	1,062
					Tier-2 Needs	-2,000	-41,276	81	-414
	Turkey Peak Reservoir	R	2021 Recommended	2030		543	1,386	543	1,386
	Purchase Additional Supply from the City of Mineral Wells	R	2021 Recommended	2030		190	192	190	192
					<i>Need after Recommended WMS</i>	<b>-1,267</b>	<b>-39,698</b>	<b>814</b>	<b>1,164</b>

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Abilene									
WMS Strategy	Type	Note	Decade Online	Projected Need / Strategy Supply (ac-ft/yr)		Contractual Need / Strategy Supply (ac-ft/yr)			
				2030	2080	2030	2080		
<b>Need/Surplus:</b>					<b>-587</b>	<b>-12,375</b>	<b>-10,924</b>	<b>-21,078</b>	
					Advanced Conservation	1,995	7,756	1,995	7,756
					Tier-2 Needs	1,408	-4,619	-8,929	-13,322
	Cedar Ridge Reservoir	R	2021 Recommended - Updated Supply	2040		0	10,100	0	10,100
	Subordination - OH Ivie Non System Portion	R	2021 Recommended - Updated Supply	2040		0	849	0	849
	West Texas Water Partnership	R	2026 Recommended	2040		0	522	0	522
	West Texas Water Partnership (OH Ivie Non System Portion)	R	2021 Recommended	2030		2,710	6,907	2,710	6,907
	BRA System Operation--Surplus	R	2021 Recommended	2030		212	0	212	0
					<i>Need after Recommended WMS</i>	<b>4,330</b>	<b>13,759</b>	<b>-6,007</b>	<b>5,056</b>

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Potosi WSC, Steamboat Mountain WSC & Graham									
WWP Name	WMS Strategy	Type	Note	Decade Online	Actual Need / Strategy Supply (ac-ft/yr)		Contractual Need / Strategy Supply (ac-ft/yr)		
					2030	2080	2030	2080	
<b>Potosi WSC</b>					<b>Need/Surplus:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
					Tier-2 Needs	0	0	0	0
					<i>Need after Recommended WMS</i>	0	0	0	0
Cedar Ridge Reservoir		A	2021 Alternative - Updated Supply	2040	0	586	0	586	
<b>Steamboat Mountain WSC</b>					<b>Need/Surplus:</b>	<b>0</b>	<b>0</b>	<b>-79</b>	<b>-78</b>
					Tier-2 Needs	0	0	-79	-78
					<i>Need after Recommended WMS</i>	0	0	-79	-78
Cedar Ridge Reservoir		A	2021 Alternative - Updated Supply	2040	0	171	0	171	
<b>Graham</b>					<b>Need/Surplus:</b>	<b>-2,366</b>	<b>-2,757</b>	<b>-2,029</b>	<b>-2,428</b>
					Advanced Conservation	209	1,202	209	1,202
					Tier-2 Needs	-2,157	-1,555	-1,820	-1,226
New Throckmorton Reservoir		R	2021 Recommended - Updated Supply	2050	0	549	0	549	
Purchase Additional Water from City of Graham		R	2021 Recommended	2030	95	95	95	95	
					<i>Need after Recommended WMS</i>	<b>-2,062</b>	<b>-911</b>	<b>-1,725</b>	<b>-582</b>

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Eastland County WSD, North Central Texas MWA, & Palo Pinto County MWD 1									
WWP Name	WMS Strategy	Type	Note	Decade Online	Actual Need / Strategy Supply (ac-ft/yr)		Contractual Need / Strategy Supply (ac-ft/yr)		
					2030	2080	2030	2080	
<b>Eastland County WSD</b>					<b>Need/Surplus:</b>	<b>0</b>	<b>-15</b>	<b>-1,012</b>	<b>-1,170</b>
					Tier-2 Needs	0	-15	-1,012	-1,170
					<i>Need after Recommended WMS</i>	0	-15	-1,012	-1,170
<b>North Central Texas Municipal Water Authority</b>					<b>Need/Surplus:</b>	<b>-1,100</b>	<b>-1,091</b>	<b>-1,482</b>	<b>-1,629</b>
					Tier-2 Needs	-1,100	-1,091	-1,482	-1,629
NCTMWA Lake Creek Reservoir		R	2021 Recommended - Updated Supply	2050	0	6,090	0	6,090	
					<i>Need after Recommended WMS</i>	<b>-1,100</b>	<b>4,999</b>	<b>-1,482</b>	<b>4,467</b>
<b>Palo Pinto County MWD 1</b>					<b>Need/Surplus:</b>	<b>-920</b>	<b>-2,315</b>	<b>-3,670</b>	<b>-4,588</b>
					Tier-2 Needs	-920	-2,315	-3,670	-4,588
Turkey Peak Reservoir		R	2021 Recommended	2030	9,117	8,274	9,117	8,274	
					<i>Need after Recommended WMS</i>	<b>8,197</b>	<b>5,959</b>	<b>5,447</b>	<b>3,686</b>

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Salt Fork Water Quality Corporation, Upper Leon MWD, & West Central Texas MWD									
WWP Name	WMS Strategy	Type	Note	Decade Online	Actual Need / Strategy Supply (ac-ft/yr)		Contractual Need / Strategy Supply (ac-ft/yr)		
					2030	2080	2030	2080	
<b>Salt Fork Water Quality Corporation (SFWQC)</b>					<b>Need/Surplus:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
					Tier-2 Needs	0	0	0	0
					<i>Need after Recommended WMS</i>	0	0	0	0
<b>Upper Leon MWD</b>					<b>Need/Surplus:</b>	<b>-364</b>	<b>-1,494</b>	<b>0</b>	<b>0</b>
					Tier-2 Needs	-364	-1,494	0	0
					<i>Need after Recommended WMS</i>	-364	-1,494	0	0
<b>West Central Texas MWD</b>					<b>Need/Surplus:</b>	<b>0</b>	<b>-10,721</b>	<b>-235</b>	<b>0</b>
					Tier-2 Needs	0	-10,721	-235	0
					<i>Need after Recommended WMS</i>	0	-10,721	-235	0

Brazos River Authority							
WMS Strategy	Type	Note	Decade Online	Projected Need / Strategy Supply (ac-ft/yr)		Contractual Need / Strategy Supply (ac-ft/yr)	
				2030	2080	2030	2080
<b>Need/Surplus:</b>				<b>-103,008</b>	<b>-525,455</b>	<b>-51,872</b>	<b>-131,289</b>
Tier-2 Needs				-103,008	-525,455	-51,872	-131,289
Lake Granger Augmentation-Ph 2 (Groundwater)	R	2021 Recommended	2030	11,510	12,847	11,510	12,847
Lake Granger ASR	R	2021 Recommended	2050	7,600	11,900	7,600	11,900
Lake Granger Augmentation-Ph 2 (Surface Water)	R	2021 Recommended - Updated Supply	2040	0	2,593	0	2,593
Lake Aquilla Pool Reallocation	R	2021 Recommended - Updated Supply	2060	0	1,910	0	1,910
Lake Whitney Overdrafting with Off-Channel Reservoir	A	2021 Alternative - Updated Supply	2050	0	5,320	0	5,320
Storage Reallocation of Lake Whitney	R	2021 Recommended	2050	0	93,355	0	93,355
Richmond GRP - New / Expanded Contract with BRA	R	2021 Recommended	2050	0	1,714	0	1,714
BRA Highland Lake to County-Other	R	2021 Recommended - Updated Supply	2030	300	300	300	300
Williamson County Groundwater – South Option	R	2021 Recommended	2040	1,212	4,335	1,212	4,335
Additional Supply from BRA	R	2021 Recommended - Updated Supply	2050	0	24,897	0	24,897
New / Expanded Contract with BRA	R	2021 Recommended - Updated Supply	2040	0	28,293	0	28,293
Additional Supply from GCWA - Allens Creek	R	2021 Recommended - Updated Supply	2040	0	11,586	0	11,586
Parker County SUD - Additional BRA (Sys Ops)	R	2021 Recommended	2060	0	1,046	0	1,046
<b>Need after Recommended WMS</b>				<b>-82,386</b>	<b>-330,679</b>	<b>-31,250</b>	<b>63,487</b>

# Unmet Needs



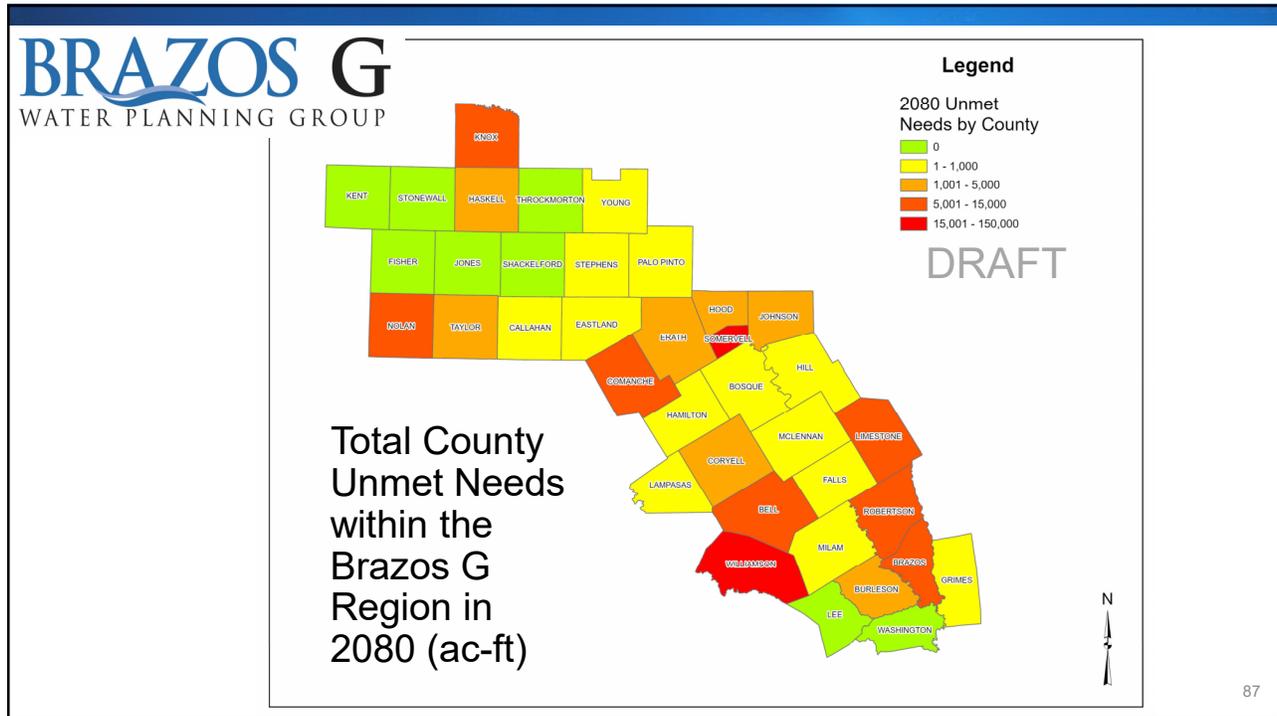
85

## Unmet Needs

- Significant effort this cycle to identify and remove infeasible strategies from both the 2021 Plan and upcoming 2026 Plans.
  - Legislation
  - New requirements
  - Updated process for identifying feasible strategies
- TWDB's significant focus on status of implementation of strategies
- To avoid infeasible strategies, the planning group has focused on identifying where unmet needs exist
  - Lack of availability
  - Constraints of regional planning statutes and rules
  - Lack of input on feasible strategies

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**BRAZOS G**  
WATER PLANNING GROUP

6

Comments/Discussion

CAROLLO 1 80

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