RWPG/GMA Representative Orientation

Hosted by the:
TWDB Water Supply Planning Division &
TWDB Groundwater Division
July 30, 2024

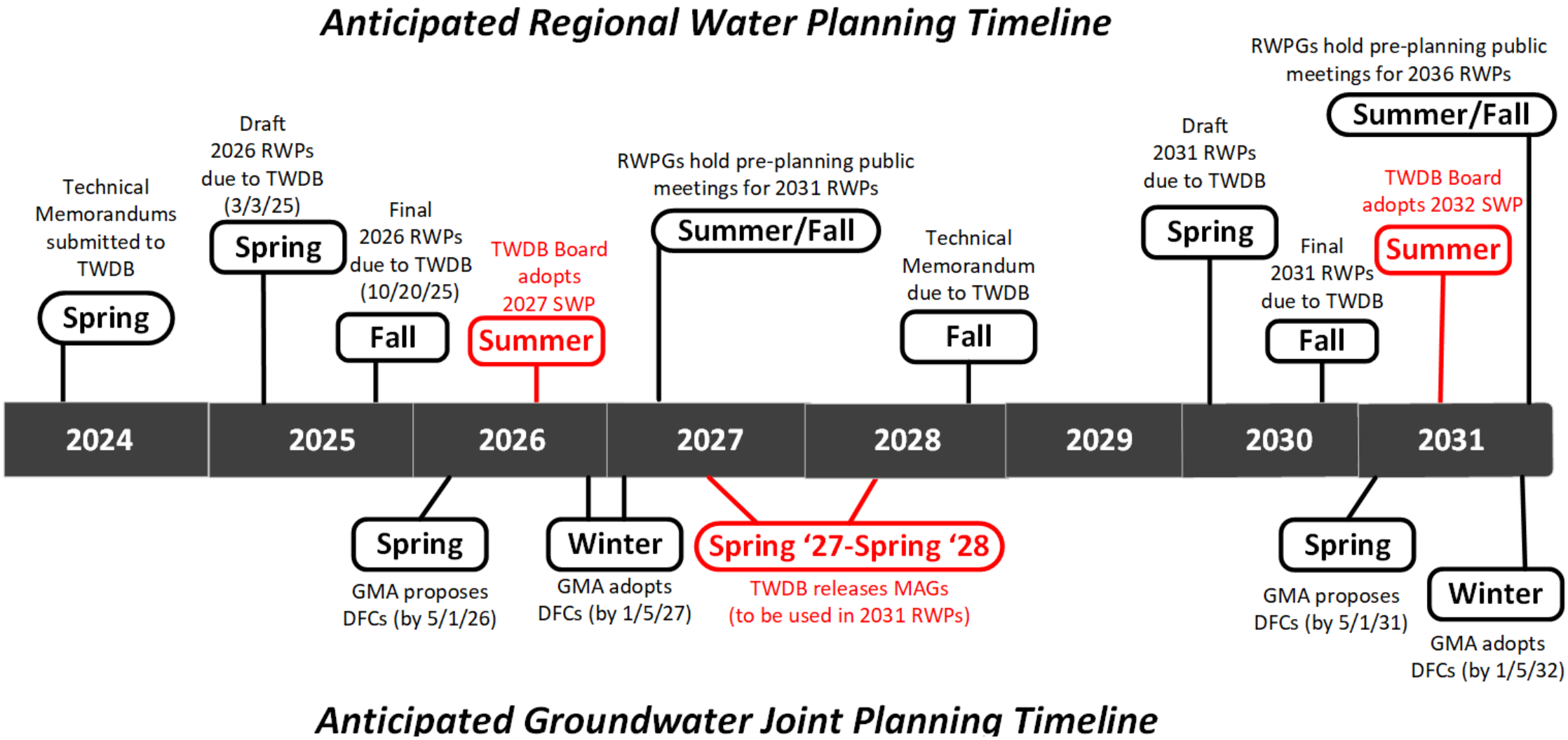
Agenda

1. Introductions and Purpose
2. Overview of GMA and RWP Process Timelines & Connections
3. State Planning Activities
4. Q&A

1. Introductions and Purpose

2. Overview of GMA and RWP Process Timelines and Connections

GMA and RWP process timelines

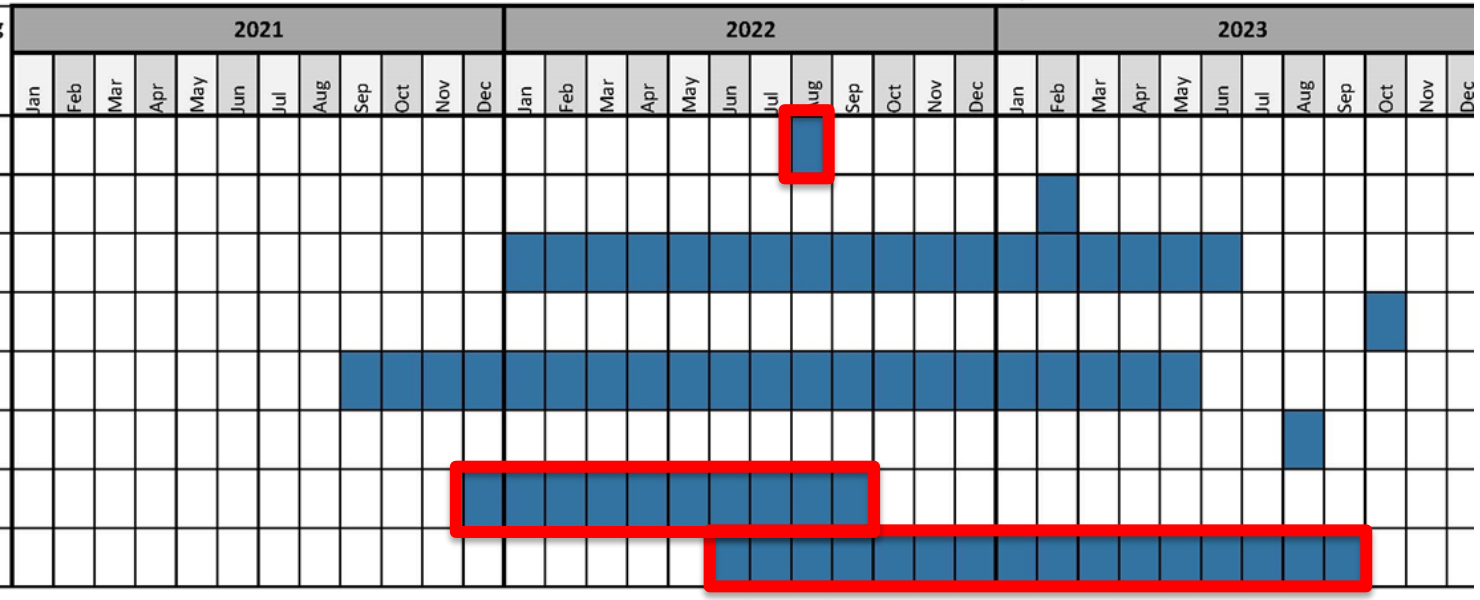


RWPGs use of MAGs

Sixth Cycle of Regional Water Planning (2026 Regional Water Plans)
Working Schedule (as of April 2021)[A]

Texas Water Development Board

Item	Entity	Activity	Planning SOW Task #[B]
10	TWDB	Draft Irrigation and Mining projections released	2A
11	TWDB	Draft Population and Municipal demand projections released	2B
12	RWPG	Review draft projections and finalize adjustments with TWDB staff	2A, 2B
13	TWDB	TWDB Board adopts projections	2A, 2B
14	TWDB	DB27 prepared for data entry[C, D]	
15	TWDB/RWPG	DB27 individualized training for consultants	
16	TWDB	Updated MAGs released	
17	RWPG	Evaluate water availability and existing water supplies	



Notes: [A] Estimated timeline based on currently available agency resources and subject to change

[B] Only Tasks included in the initial contract scope of work have task numbers in this initial timeline.

[C] DB27 is the updated, online water planning database for the 2027 State Water Plan

[D] Anticipated database availability dates are estimates based on currently available agency resources

[E] Subject to available funding

How regional and state water plans are considered in DFCs and GCD management plans

Nine factors to consider in establishing DFCs

Water supply needs & water management strategies

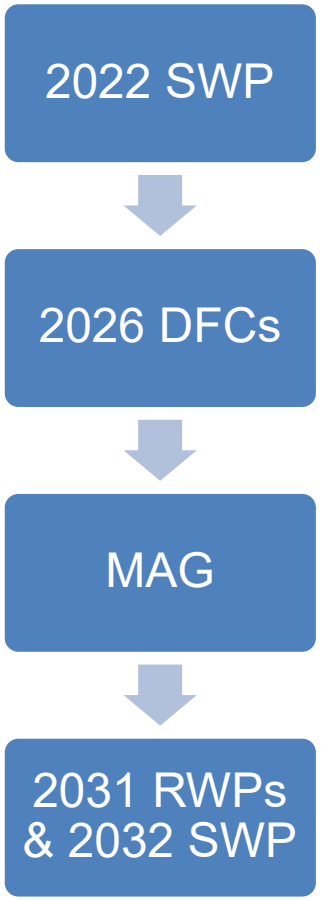
Aquifer uses and conditions	Environmental impacts	Property rights
State water plan	Land subsidence	Feasibility
Hydrologic conditions	Socioeconomics	Any other information

Management plans: Some required components

Modeled available groundwater estimates
Estimates of the amount of groundwater being used on an annual basis
Water budget estimates of groundwater resources (recharge from precipitation, discharge to springs and surface water, flow in and out of the district)
Projected surface water supply within the district (from SWP)
Projected total demand for water in the district (from SWP)
Consideration of water supply needs and water management strategies (from SWP)


GMAs establish DFCs and review management plans
GCDs must permit to achieve DFC
GMA: Joint GW Planning
GCD: GW management
Rules to achieve management plan goals
All goals and objectives in management plan must be consistent with DFC
Required goal to address DFCs
Desired future conditions
GCD management plans
One of 9 factors required to consider
Required to consider
Required to include estimates
SWP: Water supply needs & WMSs
SWP: Projected demands and SW supply

Timing of SWP data in DFC Considerations



Factor 2: GMA considers 2022 SWP needs and WMSs in development of 2026 DFCs

Resulting MAG based on consideration of 2022 SWP needs and WMSs

MAG in 2031 RWPs & 2032 SWP based on 2026 DFCs that consider 2022 SWP needs and WMS

Note: DFCs/MAGs are 5 years behind RWPs/SWP, but SWP needs and WMS data is 10 years behind.

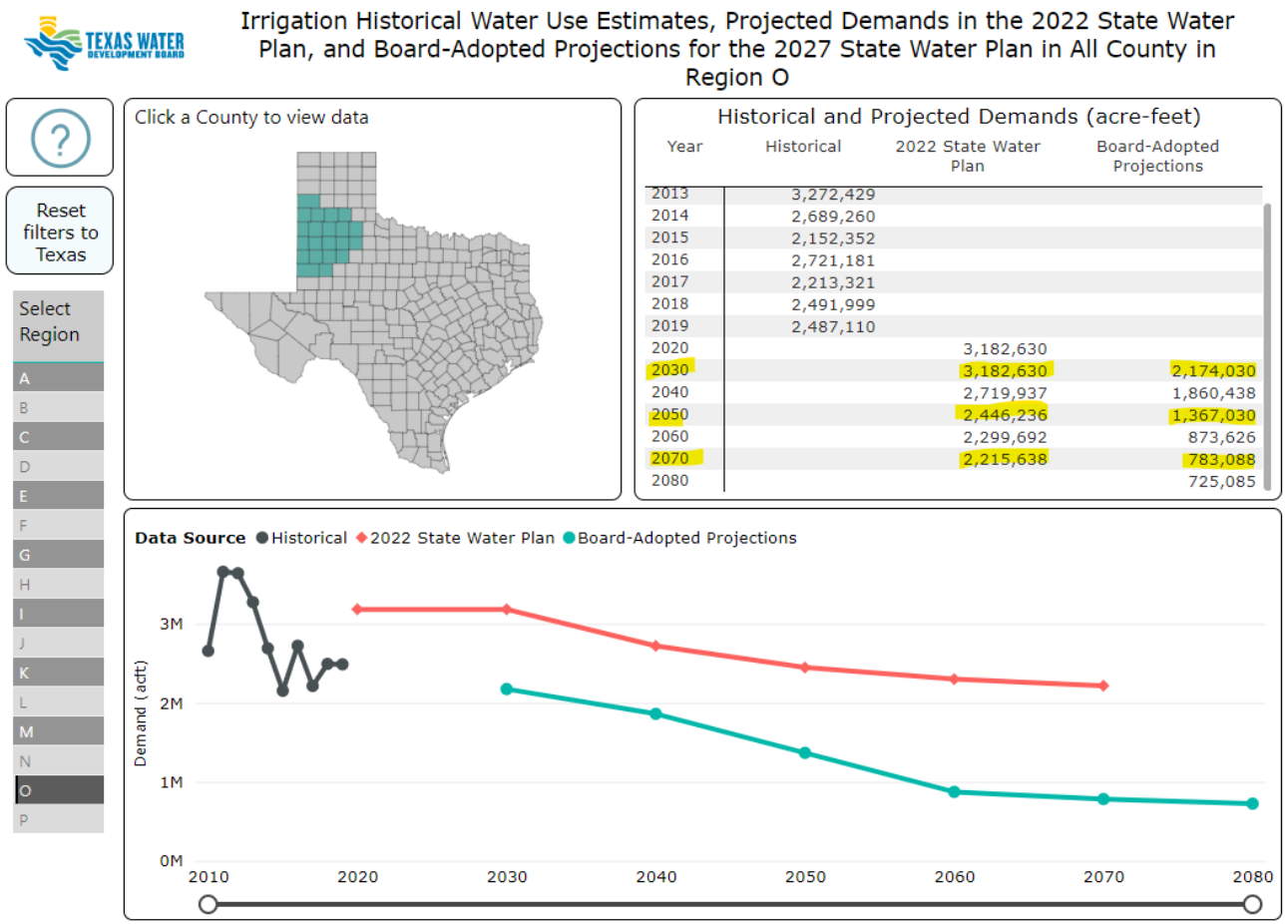
Draft 2026 RWP data available for consideration under Factor 9 "Other Information"

1. 2026 RWP Board-Adopted Demand Projections

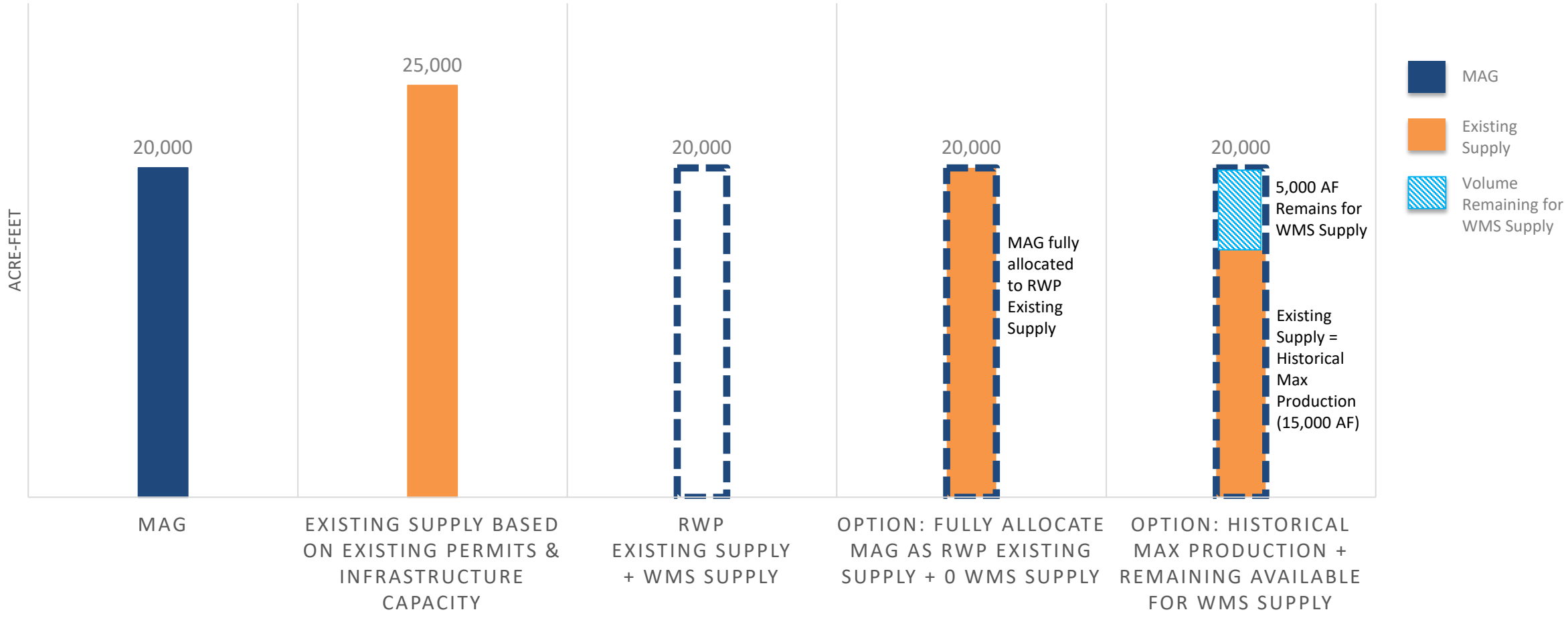
- Will be used in 2027 SWP
- Differ from 2022 SWP in some places
- Will result in some significant changes in needs - draft reports available
- Available now through TWDB data dashboard (right): https://www.twdb.texas.gov/waterplanning/data/projections/2027/projections.asp

2. Draft 2026 RWP WMS Data

- Available March 2025

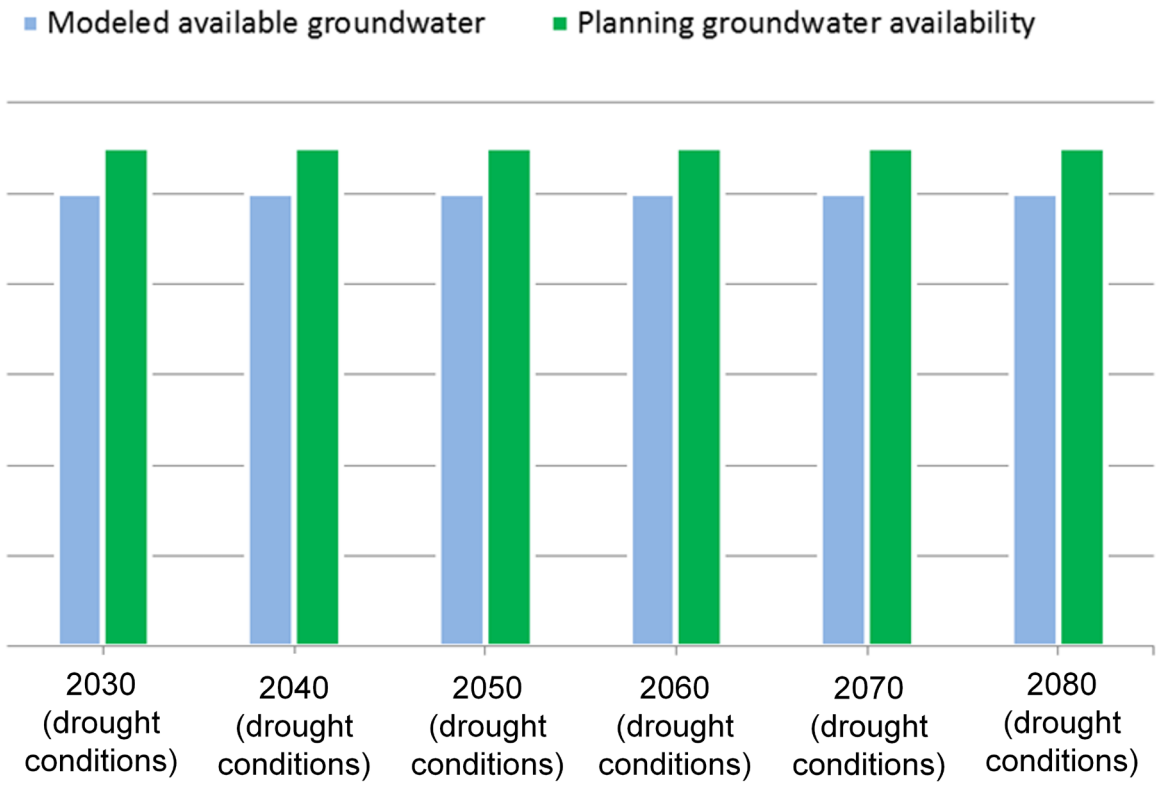


Example: RWPG Allocation of MAG Volumes in RWP

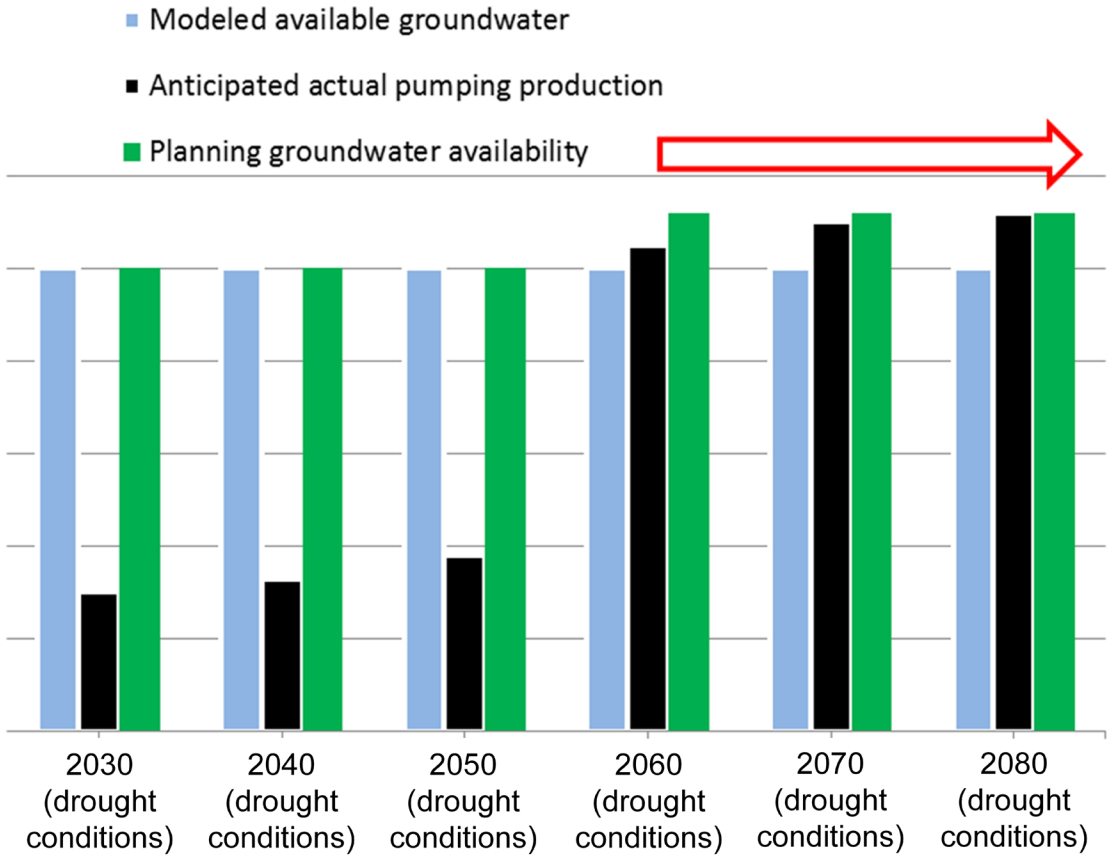


Drought condition MAG peak factor hydrologic variance option for RWPGs

Example 1: MAG peak factor impact on planning groundwater availability *(based on historical and anticipated future cyclical pumping between wet and dry periods)*



Example 2: MAG peak factor impact on planning groundwater availability *(based on low pumping in early decades)*



The role of RWPG representatives (including GMA members) in the RWP process

- Attend RWPG meetings and represent interest category
- Actively participate in and contribute supporting information to the development of the RWP
- Consider local plans and water needs of all interests in the region
- Participate in directing work the technical consultants perform on the RWPG's behalf to develop the RWP
- Ensure adoption of an RWP that meets all requirements
- RWPG Member Guide available online:

https://www.twdb.texas.gov/waterplanning/rwp/education/RWPGMemberGuide.pdf

The role of GMA representatives in the GMA process

- Represent district in joint groundwater planning
- Review each district's management plan
  - Consider goals and impact on planning in the GMA
  - Effectiveness of measures
  - Degree each achieves the DFCs
- Consider groundwater availability models and other data/info and propose DFCs that balance production and conservation, etc.
- Adopt DFCs after reviewing public comments
- Produce DFC explanatory report

3. State Planning Activities

Recent regional water planning activities and remaining 2026 RWP timeline

- Technical memorandums submitted to TWDB spring 2024
  - Data content included population, water demands, availability, existing supplies, needs (shortages)
  - TWDB provided informal comments on data and methodologies
- TWDB released Draft 2026 RWP Water Supply Needs/Surplus Map
- RWPGs evaluating water management strategies
- Draft 2026 Regional Water Plans due March 3, 2025
- Final 2026 Regional Water Plans due October 20, 2025

Draft 2026 RWP Water Supply Needs/Surplus Map

About | Working WUG Needs/Surplus Map

This map contains draft water user group water supply needs and surpluses (based on existing supply data that is currently being edited by regional water planning group (RWPG) consultants) for the 2026 Regional Water Plans. The data displayed is current as of 7/1/2024 and may continue to change until the 2026 Regional Water Plans are approved by the Texas Water Development Board in 2026. This is a working tool primarily for use by RWPG consultants and is not meant for general widespread consumption.

Description:

These maps show preliminary working water supply needs (potential shortages) and surpluses at the split Water User Group (WUG) level. WUG needs and surpluses are calculated by deducting the projected WUG demand associated with the WUG split from its total existing WUG supply for each planning decade. Values presented are in acre-feet per year.

The Brackish Aquifer Sample Area layer was developed using data from the TWDB Groundwater Database. It represents areas where there are water quality samples of 1,000-9,999 mg/L TDS. The Brackish Aquifer Sample Area layer does not reflect official major and minor aquifer boundaries. Additionally, there is no explicit association between this layer and areas with modeled available groundwater or in-place brackish groundwater volumes from completed BRACS studies. The Brackish Aquifer Sample Area layer is included in the map to facilitate potential exploration of regionalized brackish groundwater systems. For more information on completed BRACS studies, please visit www.twdb.texas.gov/groundwater/bracs/studies.asp.

Click to activate the maps:

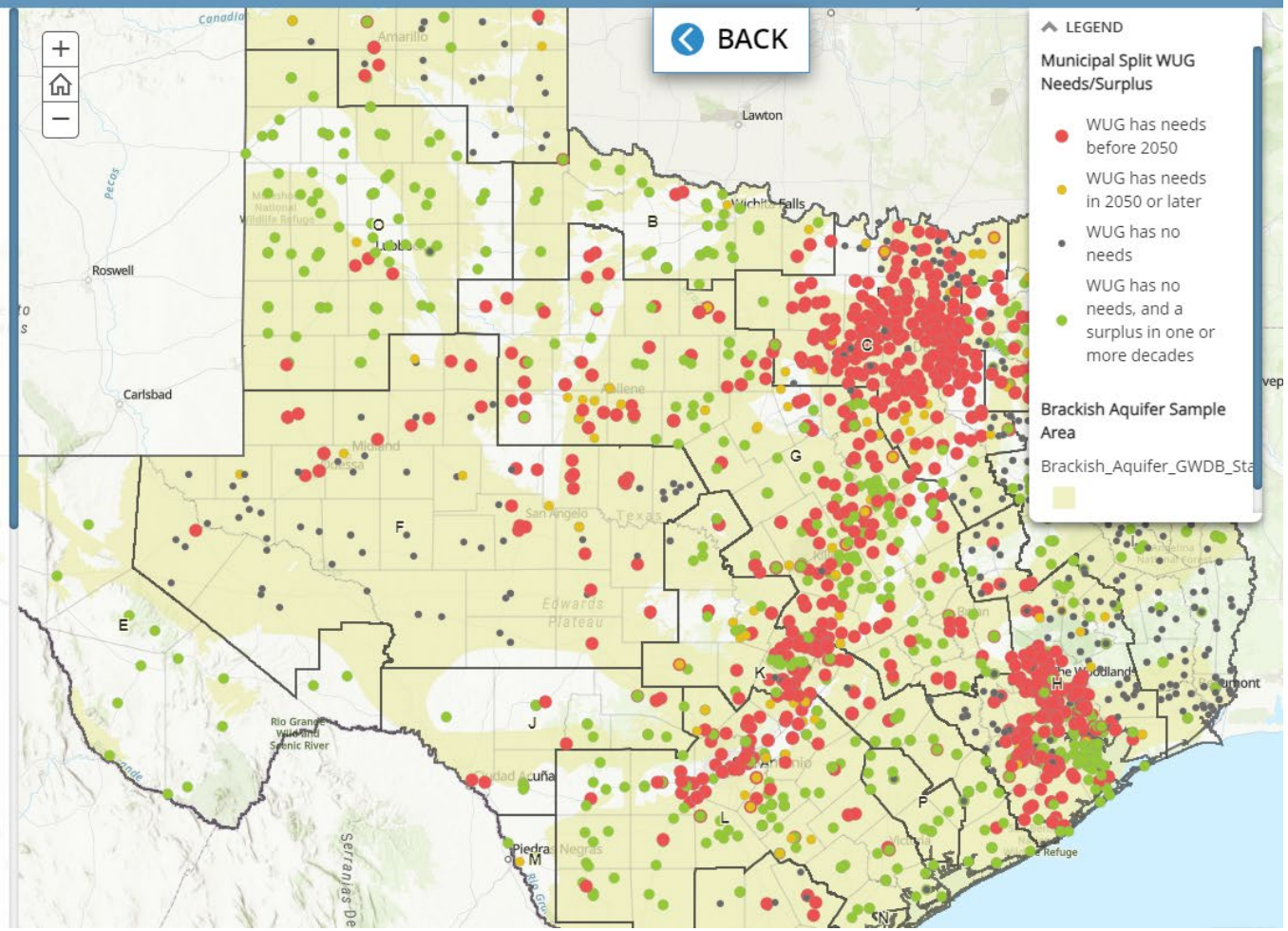
Municipal WUG Needs/Surplus' Map

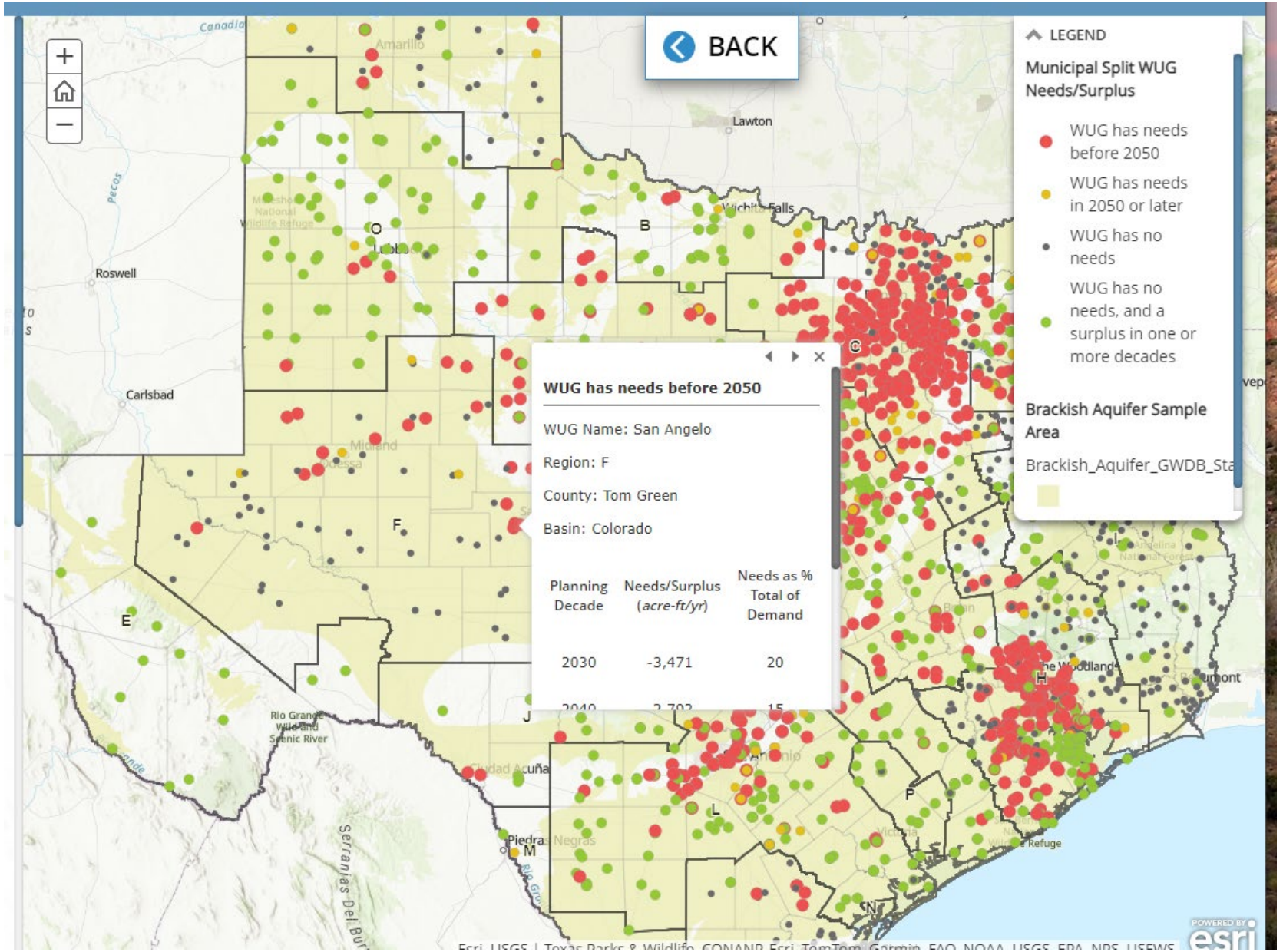
Non-Municipal WUG Needs/Surplus' Map

Data may take a few seconds to load.

How to use the maps:

Please be aware that points may appear stacked on top of each other. The 'Next Feature' arrow button at the top of a popup can be used to view the information related to points that are stacked beneath the top points.




BACK
LEGEND
Municipal Split WUG Needs/Surplus
WUG has needs before 2050
WUG has needs in 2050 or later
WUG has no needs
WUG has no needs, and a surplus in one or more decades
Brackish Aquifer Sample Area
Brackish_Aquifer_GWDB_Sta
WUG has needs before 2050
WUG Name: San Angelo
Region: F
County: Tom Green
Basin: Colorado
Planning Decade
Needs/Surplus (acre-ft/yr)
Needs as % Total of Demand
2030
-3,471
20
Amarillo
Lawton
Roswell
Carlsbad
Midland
Odessa
Wichita Falls
Rio Grande Wild and Scenic River
Piedras Negras
Serranías Del Burro
The Woodlands
Beaumont
Refuge
Esri, USGS | Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, FAO, NOAA, USGS, EPA, NPS, USFWS
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Recent GMA activities and remaining 2026 Joint Planning timeline

- Groundwater availability model updates expected by end of 2024
  - 11 out of 15 GMAs awaiting model updates
  - Timing of release impacts planning
- Thirteen GMAs currently engaged with consultants
- GMAs considering required factors
- Proposed DFCs adoption by May 1, 2026
- Final DFCs adoption by January 5, 2027
- GCD adopt DFCs once administratively complete

www.twdb.texas.gov/groundwater/docs/DFCFlowchart_December2023.pdf

4. Q&A

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