

GMA 12

Aquifer Uses and Conditions:

**Brazos River Alluvium
and
Gulf Coast Aquifer**

DFC CONSIDERATIONS TWC 36.108(D)

*Aquifer Uses
or Conditions*

*Supply Needs &
Management
Strategies*

*Hydrological
Conditions*

*Environmental
Impacts*

*Subsidence
Impacts*

*Socioeconomic
Impacts*

*Private Property
Rights*

DFC Feasibility

*Other Relevant
Information*

AQUIFERS WITHIN GMA 12

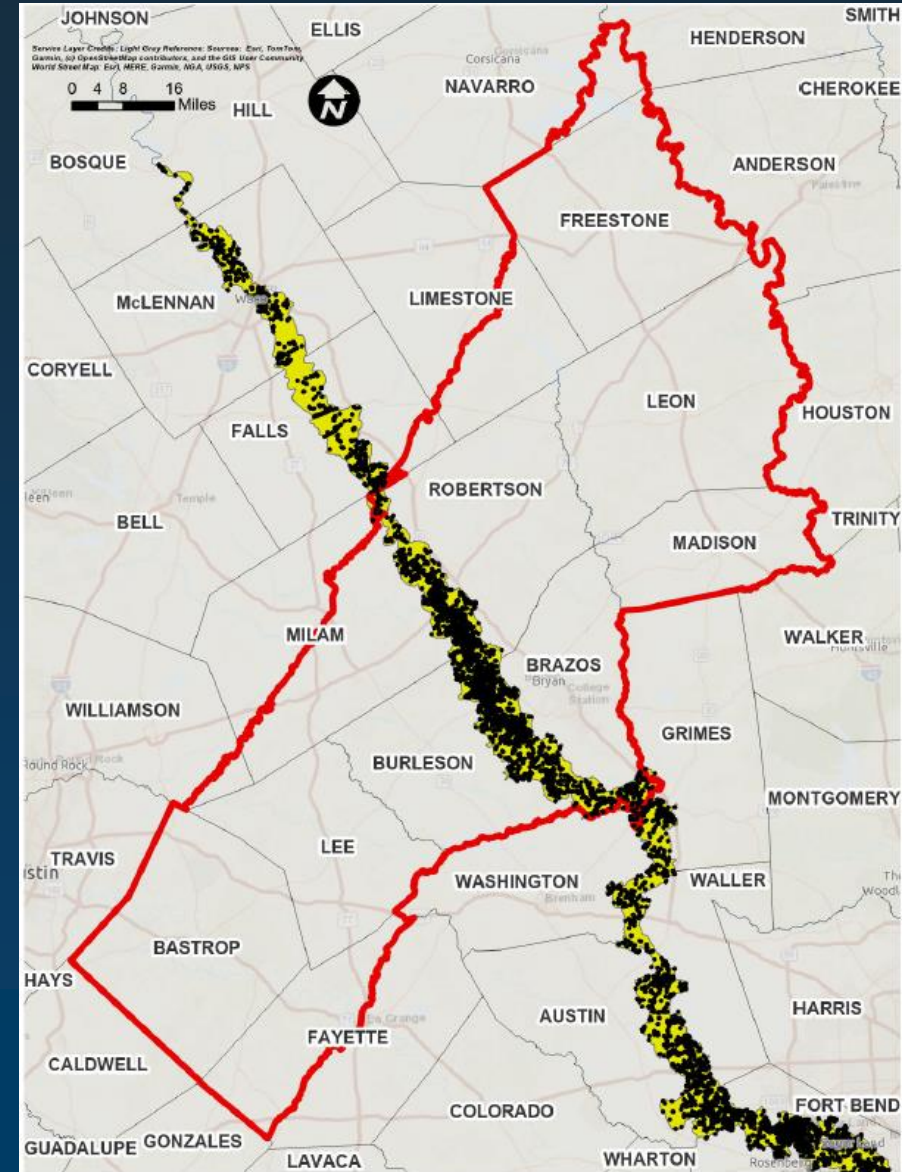
- **Carrizo-Wilcox (including Carrizo, Calvert Bluff, Simsboro, and Hooper)**
- **Queen City**
- **Sparta**
- **Yegua-Jackson**
- **Brazos River Alluvium**
- **Trinity**
- **Gulf Coast**

AQUIFER USES

- Includes the following per TWDB:
 - **Municipal**- city-owned, districts, WSCs, or private utilities supplying residential, commercial (non-goods-producing businesses), and institutional, and non-surveyed municipal (rural domestic)
 - **Manufacturing**- process water use reported by large manufacturing plants
 - **Livestock**
 - **Irrigation**
 - **Mining**- includes water used in the mining of oil, gas, coal, sand, gravel, and other materials
 - **Steam-Electric**- consumptive use of water by large power generation plants

BRAZOS RIVER ALLUVIUM AQUIFER

- **Minor Aquifer**
- **Localized in GMA 12**
- **Moderate historic use**
- **Numerous wells**
- **Wells are very shallow**
- **DFCs established in 2016**



Well data from TWDB Groundwater Database and SDR Database, 2026

BRAZOS RIVER ALLUVIUM AQUIFER USES

- **Groundwater primarily produced from very shallow wells (<100')**
- **Groundwater almost exclusively used for irrigation in the Brazos River Bottom**
 - **Crops include:**
 - **Corn**
 - **Cotton**
 - **Soybeans**
 - **Hay**
 - **Grain sorghum**
- **Limited amount of domestic and livestock use**
- **Limited amount of mining and industrial use**

BRAZOS RIVER ALLUVIUM AQUIFER USES

Approximate Brazos River Alluvium 2023 Groundwater Use (Percent)

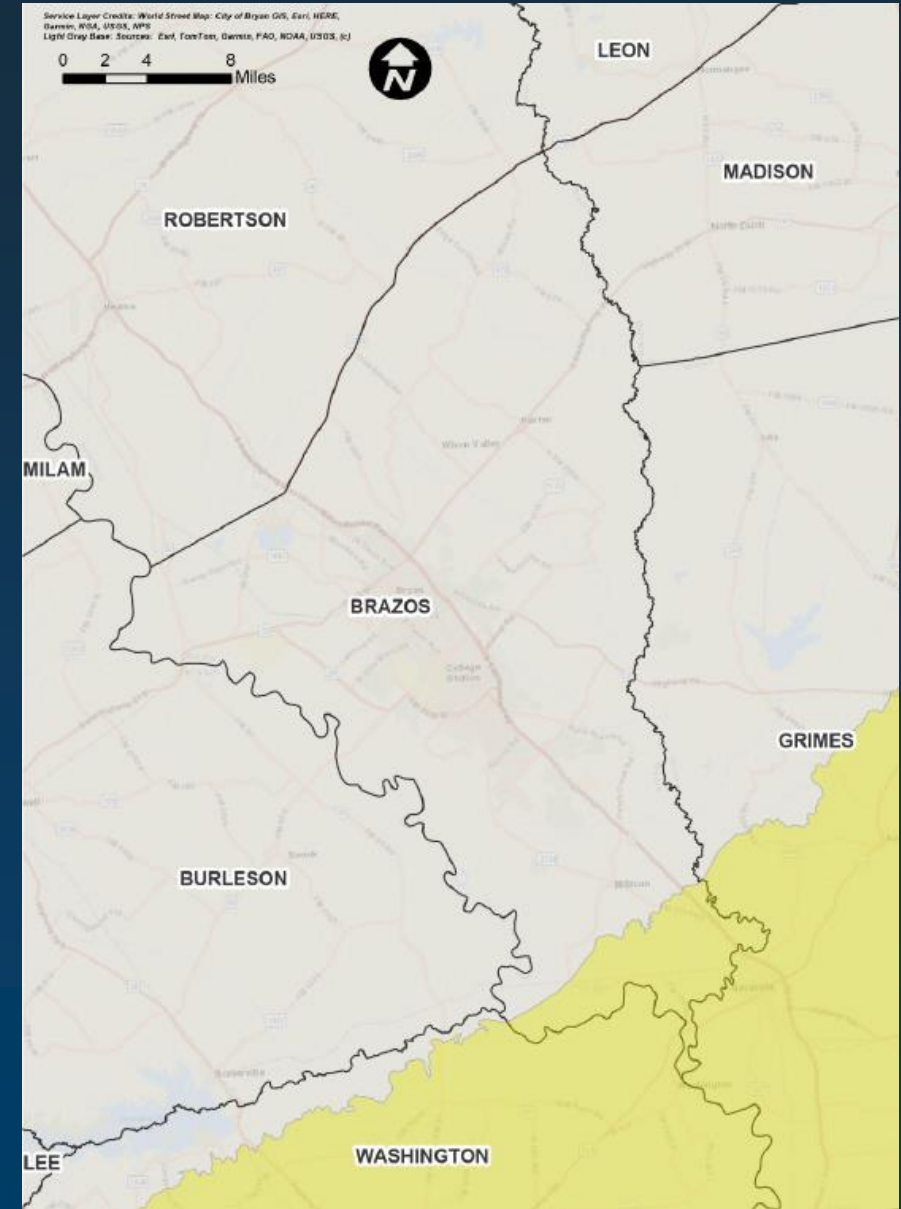
	<i>LPGCD</i>	<i>POSGCD</i>	<i>BVGCD</i>	<i>METGCD</i>	<i>FCGCD</i>
<i>Irrigation</i>	<i>NA</i>	<i>100%</i>	<i>95+%</i>	<i>NA</i>	<i>NA</i>
<i>Livestock</i>	<i>NA</i>	<i>0%</i>	<i><5%</i>	<i>NA</i>	<i>NA</i>
<i>Manufacturing</i>	<i>NA</i>	<i>0%</i>	<i>0%</i>	<i>NA</i>	<i>NA</i>
<i>Mining</i>	<i>NA</i>	<i>0%</i>	<i>0%</i>	<i>NA</i>	<i>NA</i>
<i>Municipal</i>	<i>NA</i>	<i>0%</i>	<i>0%</i>	<i>NA</i>	<i>NA</i>
<i>Steam-Electric Power</i>	<i>NA</i>	<i>0%</i>	<i>0%</i>	<i>NA</i>	<i>NA</i>

2024 Reported Brazos River Alluvium Production

- **Brazos Valley GCD = 96,911 ac-ft**
- **Post Oak Savannah GCD = 2,317 ac-ft**

GULF COAST AQUIFER SYSTEM

- **Major Aquifer**
- **Very limited in areal extent**
 - **Present in only the very south part of Brazos County**
- **Minor historic use in GMA12**
 - **Only provide water in small quantities**
 - **Domestic and Livestock use**
- **Declared not relevant in Brazos Valley GCD**



QUESTIONS?