



Brazos G Regional Water Planning Group Wayne Wilson - Chair

Presentation for: Milam and Burleson Counties Groundwater Summit

> Caldwell, Texas August 14, 2019



Presentation Overview

- 1. Overview of the Brazos G Regional Water Planning Group
- 2. Overview of the Brazos G Regional Water Planning Area
- 3. Regional Water Planning Process
- 4. Highlights of the Brazos G 2021 Plan



Overview of the Brazos G Regional Water Planning Group



Region G RWPG

The regional water plans provide for the orderly development, management, and conservation of water resources, and include drought preparation and response.

The goal of Region G planning process is to assure sufficient water will be available at a reasonable cost to ensure public health, safety and welfare, further economic development and protect agriculture and natural resources.



23 Voting Members representing 12 Interest groups:

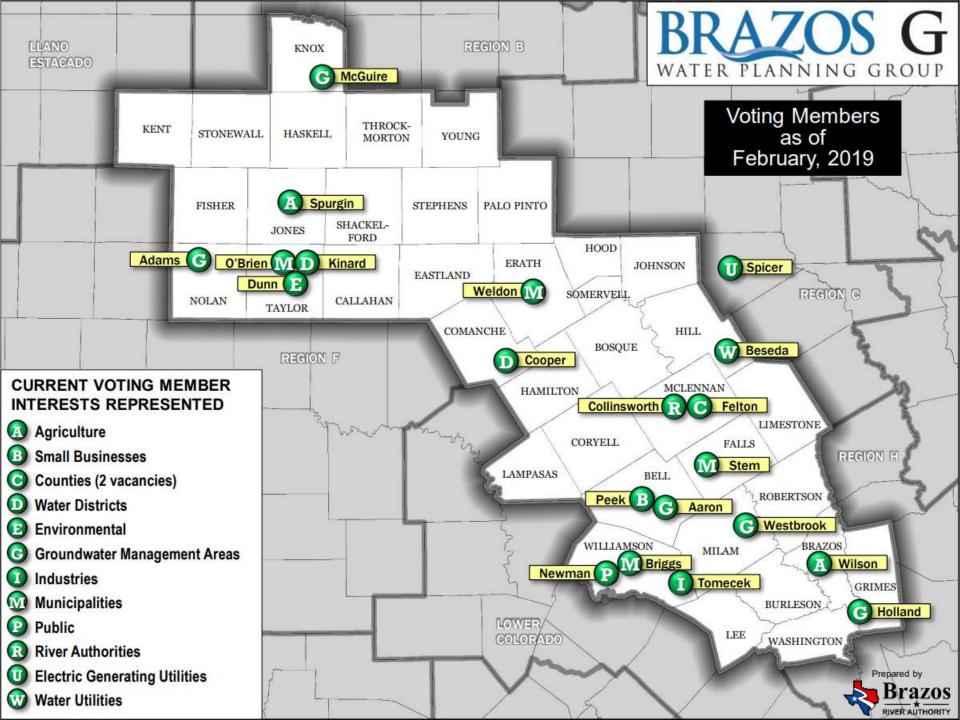
- 1 Public
- 1 Industries
- 1 Environmental
- 1 Small Business
- 1 Electric Generating Utilities
- 1 River Authorities
- 1 Water Utilities
- 2 Agriculture
- 2 Water Districts
- 3 Counties
- 4 Municipalities
- 5 Groundwater Management Areas

Non Voting Members: TWDB, TDA, TPWD, TSSWCB and adjacent Regional Water Planning Groups



Brazos G RWPG Members and Interests Groups:

Public – Gary Newman **Counties** – Gary Meyers, Scott Felton, David Blackburn Municipalities – Kenny Weldon, Jim Briggs, Tommy O'Brien, Wiley Stem **Agriculture** – Wayne Wilson, Dale Spurgin **Industry** – Terrill Tomacek Environment – Luci Dunn **Small Business** – Gail Peek **Electric Utilities/Power Generation** – Gary Spicer **River Authorities** – David Collinsworth Water Districts – Joe Cooper, Kelly Kinard Water Utilities – Charles Beseda **Groundwater Management Areas** – Mike McGuire, Zach Holland, Gary Westbrook, Dirk Aarons, Dale Adams





Current Brazos G RWPG Officers:

Wayne Wilson – Chair Agriculture – Brazos County

Gail Peek – Vice-Chair Small Business – Bell County

David Collinsworth – Secretary/Treasurer River Authorities – McLennan County

Administrator for Brazos G RWPG:

Brazos River Authority Stephen Hamlin – Program Administrator

Lead Consulting Firm for Brazos G RWPG: HDR Engineering, Inc.

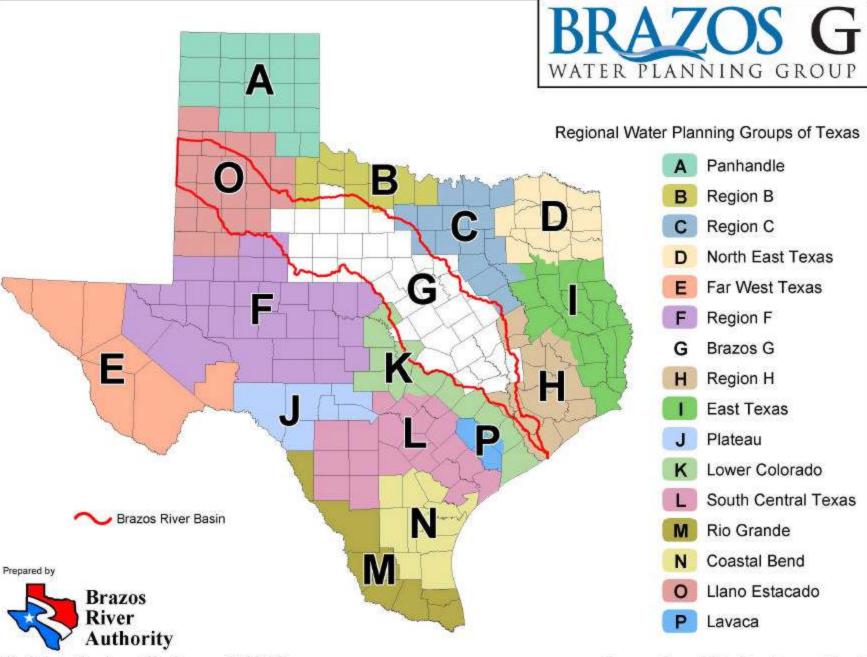


How does Brazos G communicate?

- Brazos G website: <u>www.brazosgwater.org</u>
 - 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 and Wholesale Water Providers
- Public presentations when invited and time/funding allows
- Other public meetings to discuss major issues
- Phone calls/emails to & from us (members, BRA, consultants)
 Sub regional meetings



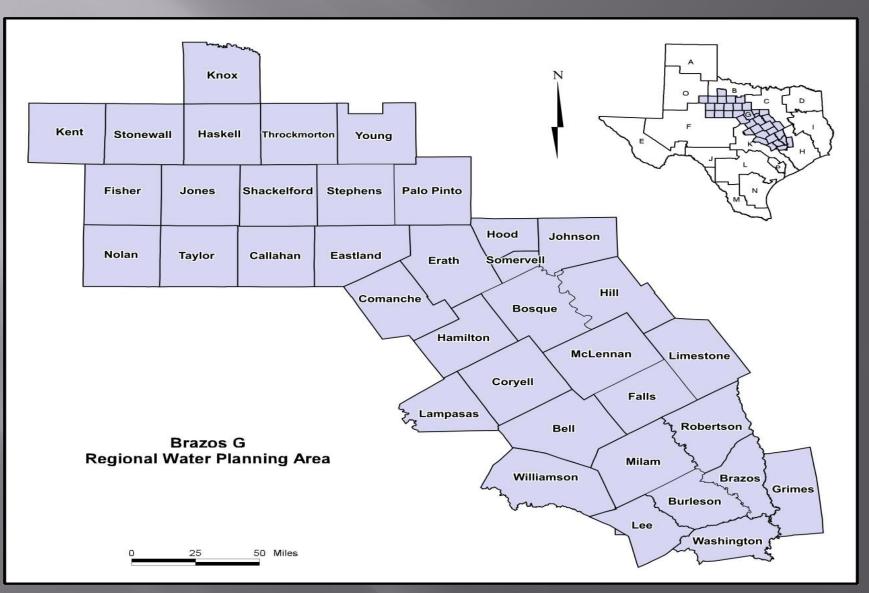
Overview of the Brazos G Regional Water Planning Area



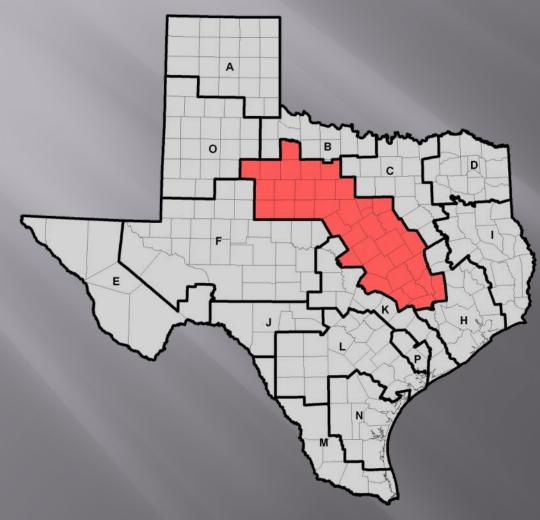
Administrative Agent for Brazos G RWPG

Source: Texas Water Development Board









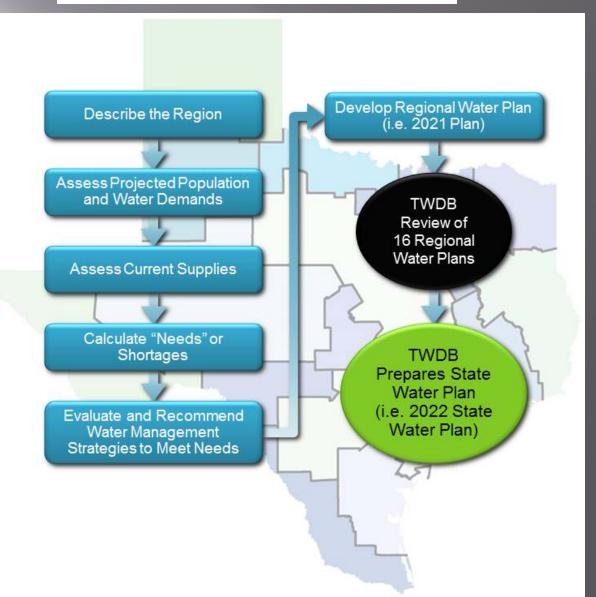
- 37 Counties
- **538 Water Users** • •353 Municipal Groups •Other Uses (37 each) Manufacturing •Steam Electric Irrigation Livestock Mining • 26 Wholesale Providers



Regional Water Planning Process

Regional Water Planning Process

BRAZOS GROUP





Why is the Regional Water Planning Process Important?

Funding

TWDB (grants & loans) requires "consistency" with State and regional plans
SWIFT funds require projects be in the Plan

Permits

TCEQ (water rights) requires "consistency" with State and regional plans
Groundwater Conservation Districts – some districts require "consistency"

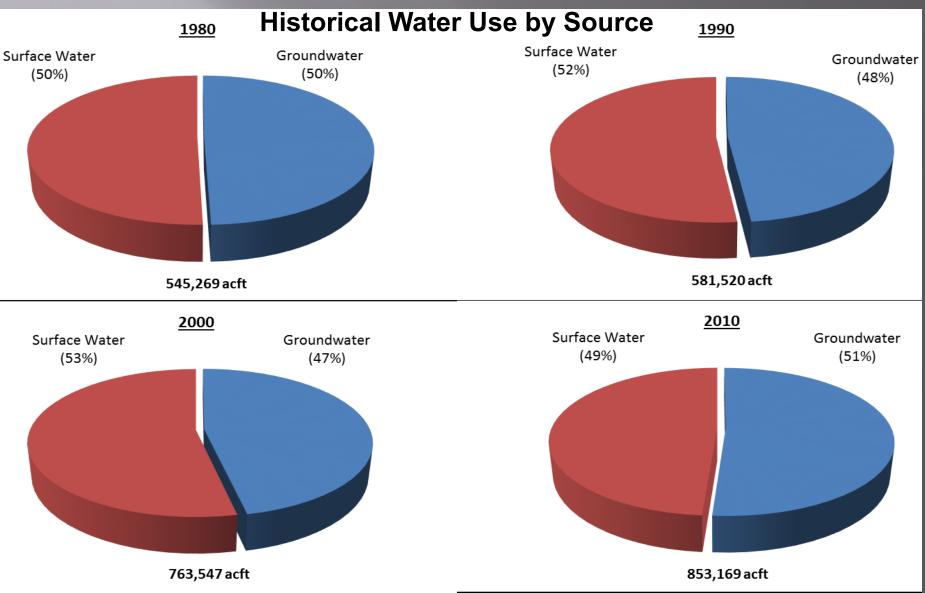
Provides picture of the overall water supply situation for the State •Education of the public

- •Education and recommendations to the Legislature
- •Dialogue regarding appropriate water supply strategies



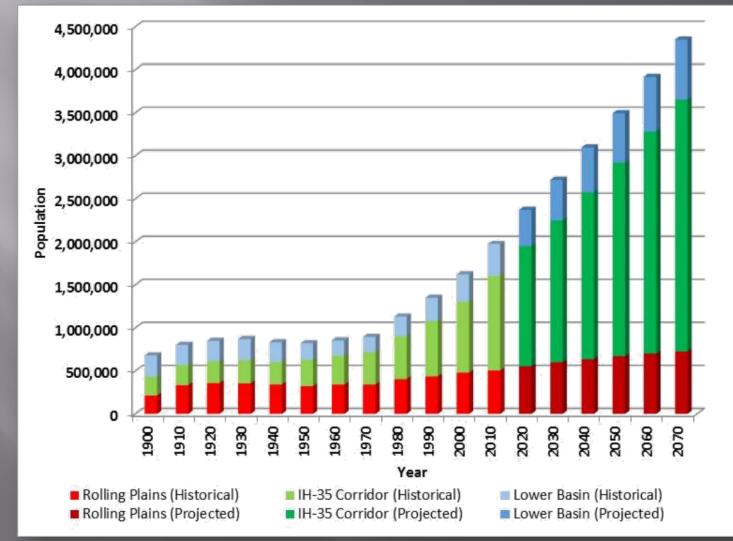
Highlights of the Brazos G 2021 Plan



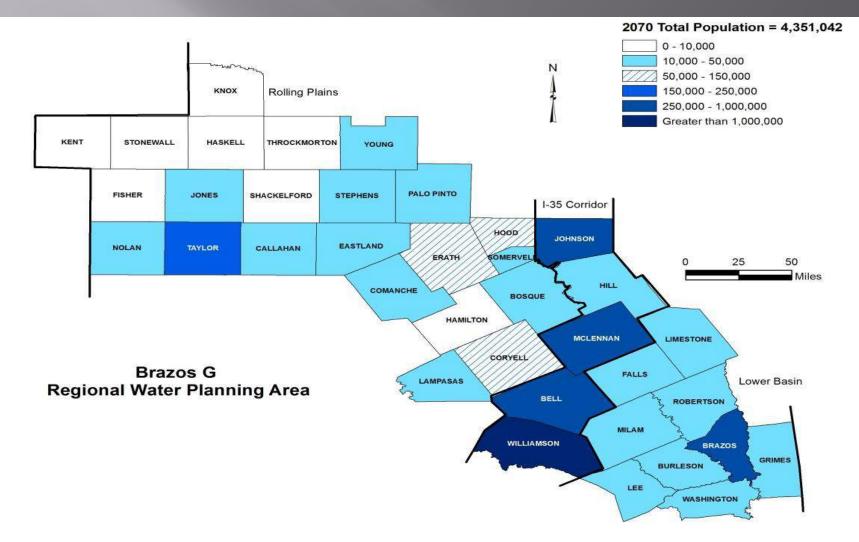




Population Projected for the Brazos G Area

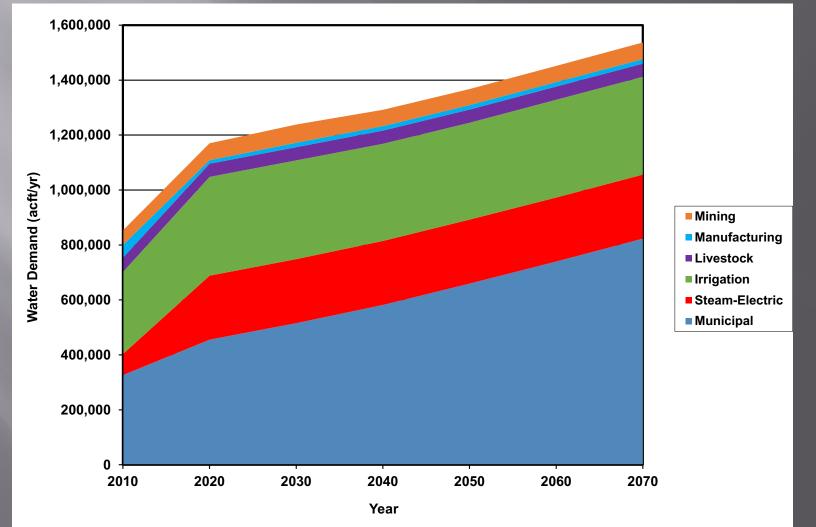




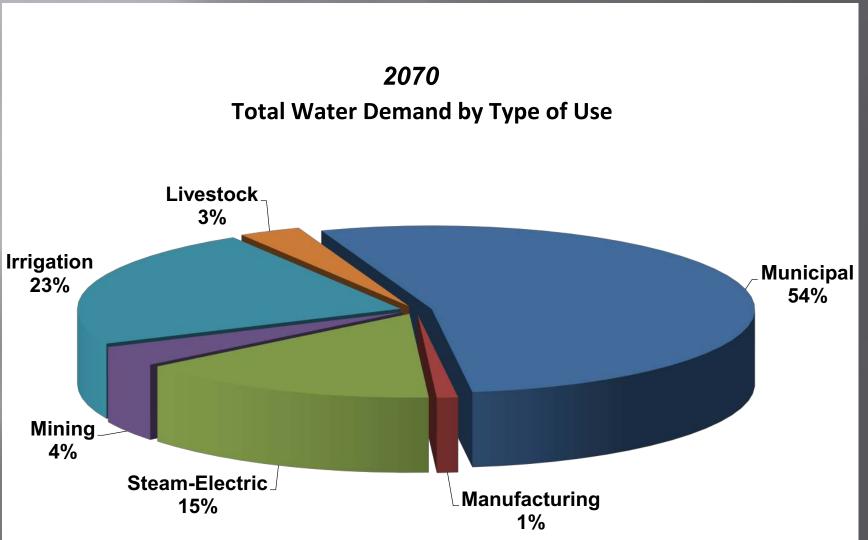




Water Demands Projected for the Brazos G Area









Water Shortages Projected for the Brazos G Area

Surplus or (Shortage) = Supply – Demand

- Computed each decade for each WUG and WWP
- Assumes dry year demands and drought of record supplies
- Shortages caused by:
 - Growth in demand outstripping supply
 - Infrastructure limitations treatment, well or pipeline capacity
 - MAG limiting groundwater supplies

Shortages in 2070 projected for:

 $_{\odot}$ 100 municipal WUGs

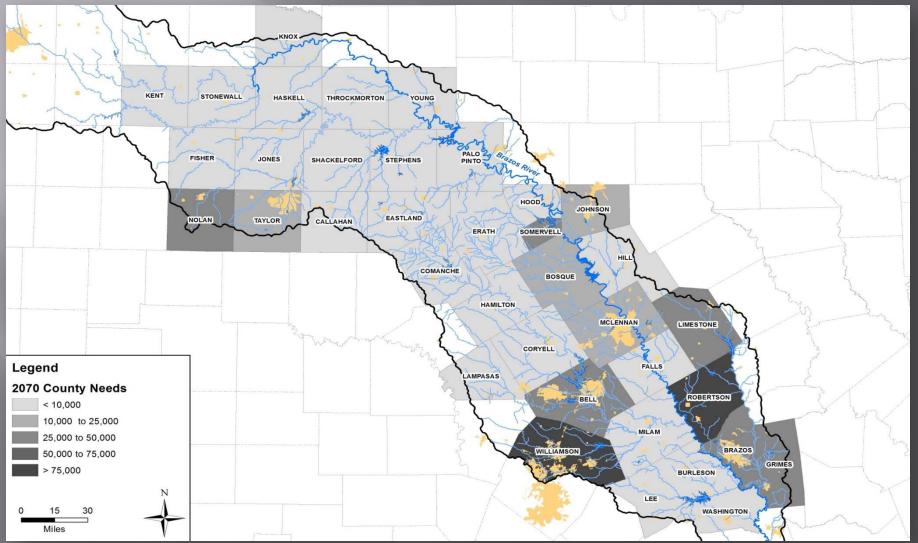
- o 7 counties Manufacturing
- 6 counties Steam-Electric

o 21 counties Mining

- $_{\circ}$ 19 counties Irrigation
- 0 counties Livestock



Projected Water Shortages (acre-feet/year)





Water Management Strategies Considered

- Additional Conservation: 171 municipal WUGs
- Reuse
- Additional groundwater development (multiple aquifers)
- ASR:
 - o McLennan County
 - College Station
 - o Bryan
 - Lake Granger
 - Lake Georgetown
 - Johnson County
- Augmentation of SuppliesSFWQC Chloride Control

- New Reservoirs:
 - Lake Creek Reservoir
 - $_{\circ}$ Throckmorton Reservoir
 - Turkey Peak Reservoir
 - Brushy Creek Reservoir
 - Cedar Ridge Reservoir
 - South Bend Reservoir
 - Hamilton County Reservoir
 - o Red River Off-Channel
 - Coryell County Off-Channel
 - Groesbeck Off-Channel
 - Brazos Main Stem Off-Channel
- Supplies from BRA System Operations Permit

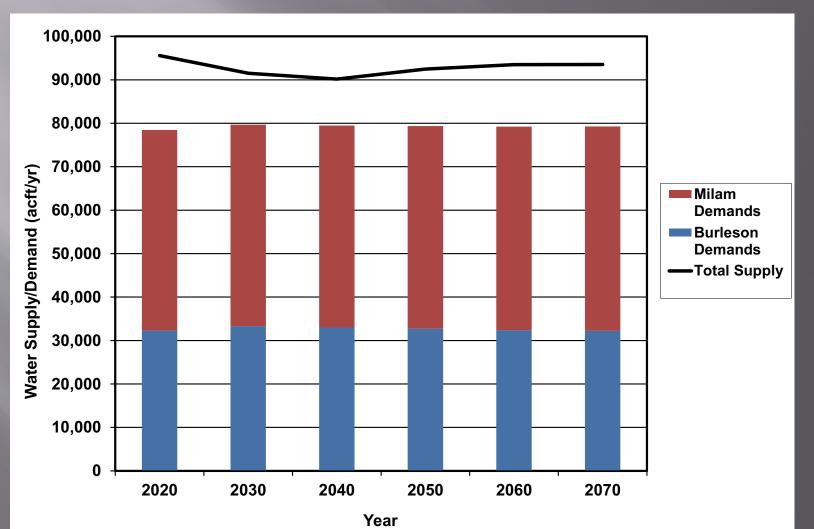


Water Demands for Burleson and Milam Counties (acft/yr)

Category	2020	2030	2040	2050	2060	2070
Burleson County						
IRRIGATION	26,804	26,804	26,804	26,804	26,804	26,804
LIVESTOCK	1,390	1,390	1,390	1,390	1,390	1,390
MANUFACTURING	117	117	117	117	117	117
MINING	995	1,923	1,512	1,100	686	428
MUNICIPAL	2,959	3,081	3,187	3,293	3,394	3,483
Burleson County Total	32,265	33,315	33,010	32,704	32,391	32,222
Milam County						
IRRIGATION	6,502	6,502	6,502	6,502	6,502	6,502
LIVESTOCK	2,761	2,761	2,761	2,761	2,761	2,761
MANUFACTURING	12	13	13	13	13	13
MINING	14	14	14	14	14	14
MUNICIPAL	4,664	4,822	4,923	5,116	5,307	5,495
STEAM ELECTRIC POWER	32,254	32,254	32,254	32,254	32,254	32,254
Milam County Total	46,207	46,366	46,467	46,660	46,851	47,039



Water Demands/Supplies for Burleson and Milam Counties







WWW.BRAZOSGWATER.ORG

Brazos River Authority 4600 Cobbs Drive Waco, Texas 76710