

BRA Update on Surface Water Resources in Brazos Planning Region G

Bell County Water Symposium, November 17, 2021

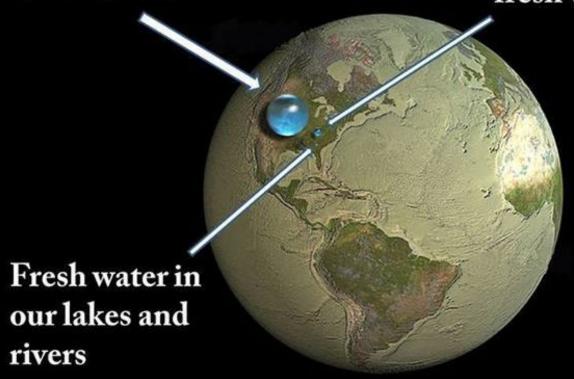
Presented by
Brad Brunett, Regional Manager – Central & Lower Basins





(including oceans)

All of Earth's fresh water

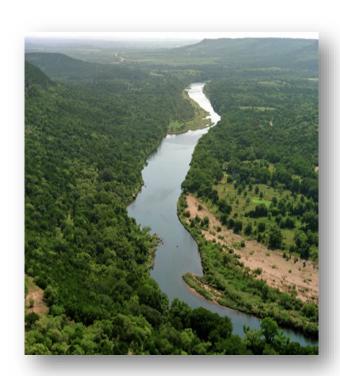




Our Mission

To develop, manage, and protect the water resources of the Brazos River basin

- Oldest river authority in Texas
- Created by the Texas Legislature in 1929
- First entity of its kind in the nation
- Self-funded (not appropriated), do not levy taxes
- 21 member Board appointed by Governor
- Territory:
 - Extends from the Texas-New Mexico state line west of Lubbock to the Gulf of Mexico near Freeport
 - More than 42,000 square miles
 - All or part of 76 counties





Our Business

- Raw Water Supply
- Water & Wastewater Treatment
- Water Quality & Environmental Stewardship



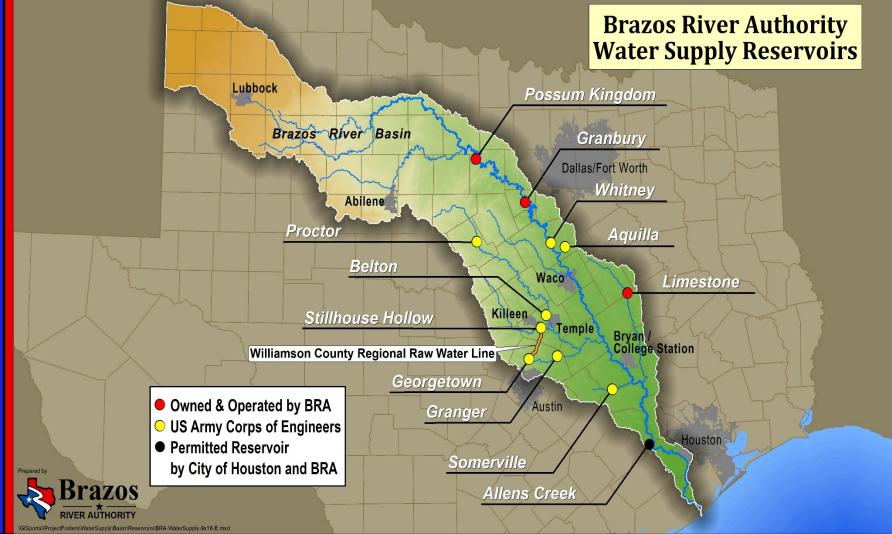






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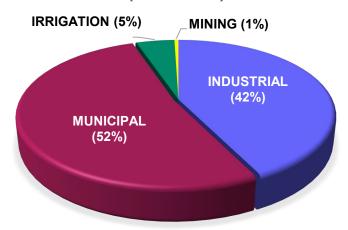


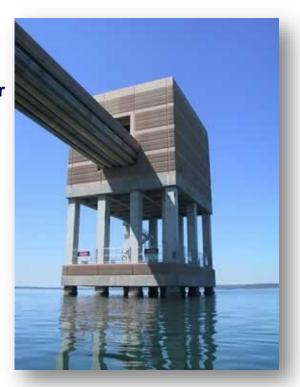
Water Contracts

Long Term Agreements

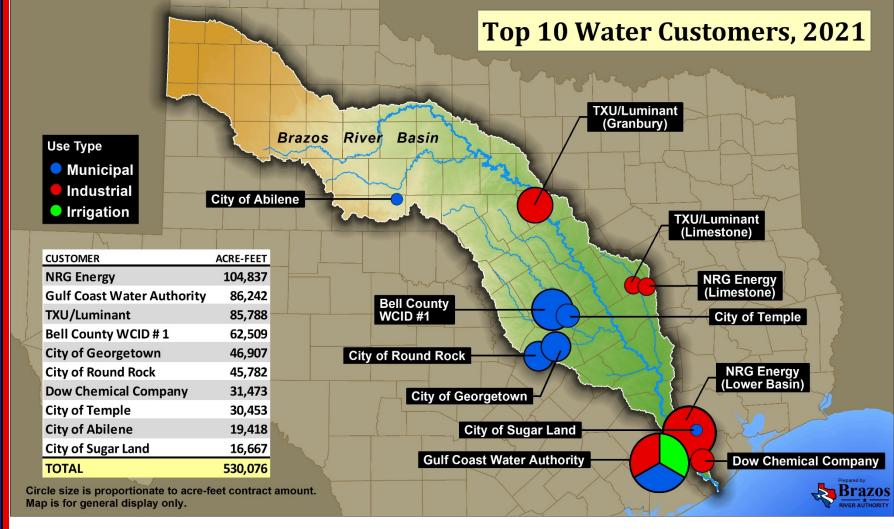
- About 160
- Contracts & commitments total about 742,000 acre-feet/yr
- Some lakeside
- Some downstream of reservoirs

LONG-TERM CONTRACTS BY TYPE (MAY 2020)



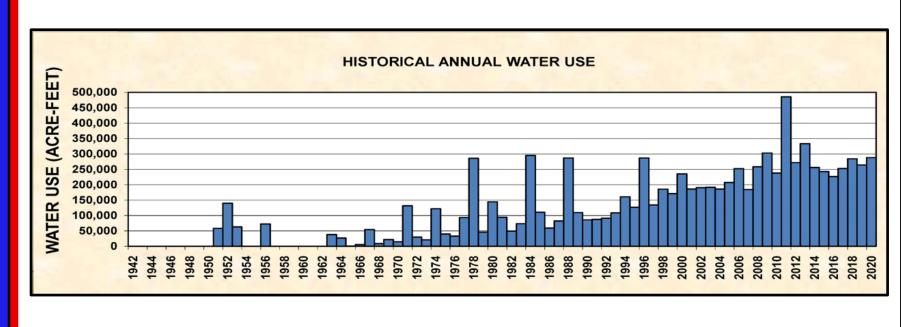






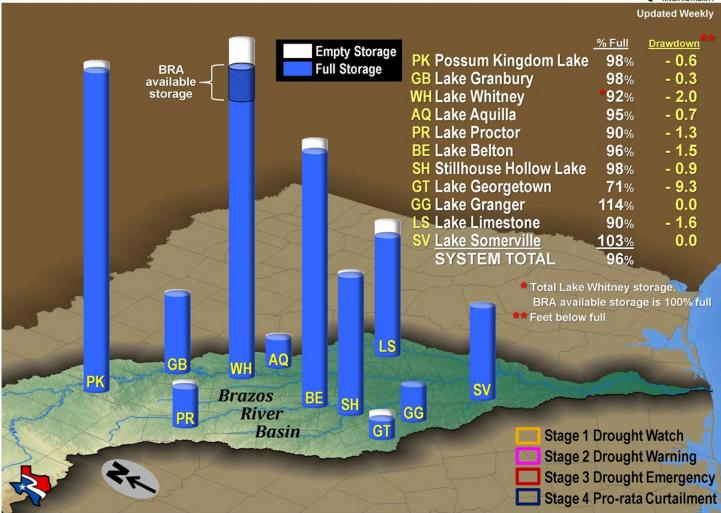
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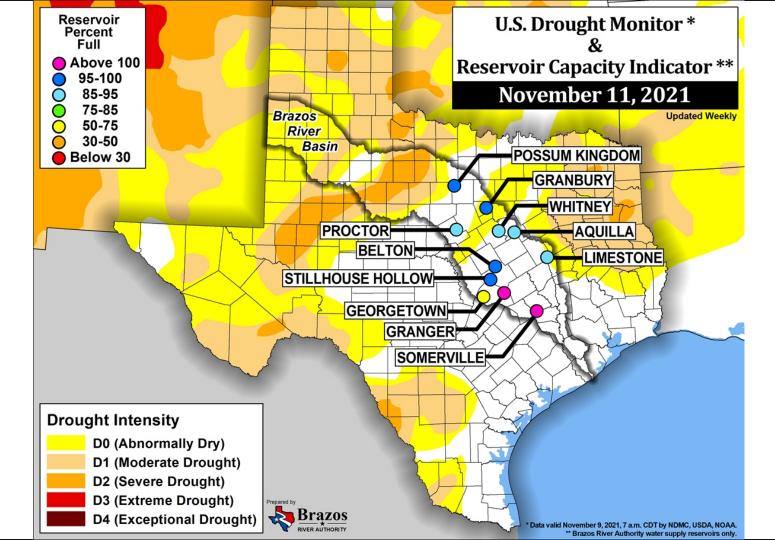


BRA Water Supply Reservoirs "PERCENT FULL" November 10, 2021

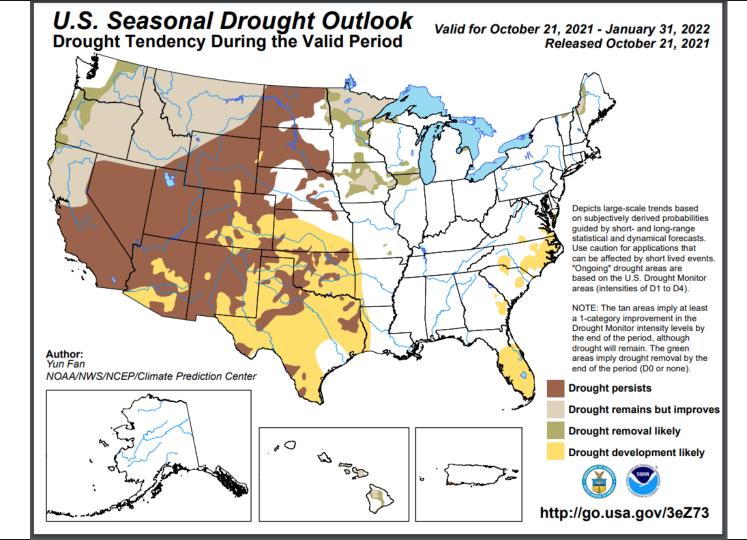












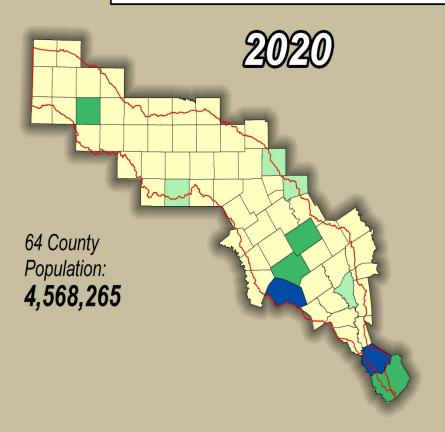
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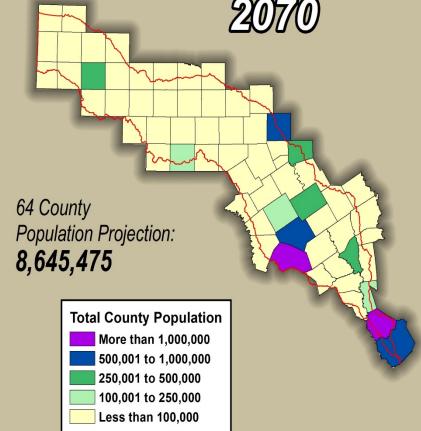
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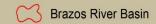


Brazos Basin Population Growth Projected Increase: 4,077,210





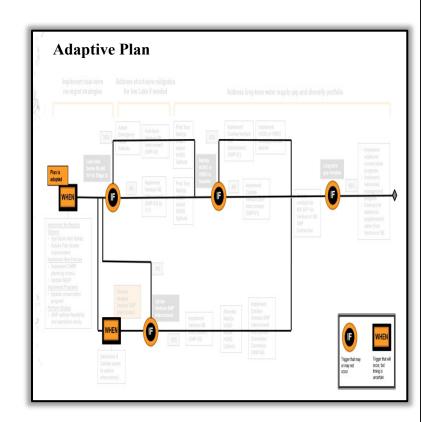






Integrated Water Resources Plan

- ✓ Considers risk criteria and incorporates advanced planning, modeling, and decision making
- ✓ Allows for multiple scenarios of future water demand
- ✓ Includes stakeholder involvement
- ✓ Establishes a repeatable framework for project evaluation and prioritization
- Results in an adaptive roadmap that will guide the development of integrated, reliable, resilient, and sustainable water supply resources





Little River Watershed IWRP

1.1		Refine Work Plan			
	1.1.1	Kickoff and work plan development meeting			
	1.1.2	Compile and review reference information			
	1.1.3	Determine Technical Approaches	2.1		Assess Hydrologic and System Vulnerabilities
	1.1.4	Develop Work Plan		2.1.1	Baseline Conditions
				2.1.2	Future Hydrology
1.2		Identify and Prioritize Issues, Risks and Uncertainties		2.1.3	Risk Modeling
	1.2.1	Conduct Risk Workshops			· ·
	1.2.2	Prioritization of Risks and Uncertainties	2.2		Develop Planning Scenarios
				2.2.1	Key Drivers
1.3		Select Key Performance Indicators and Level of Service Goals		2.2.2	Scenario Definition
	1.3.1	Identify Key Performance Indicators	2.3		
	1.3.2	Establish Level of Service Goals			Identify and Analyze Water Management Strategies
	1.3.3	Conduct Key Performance Indicator and Level of Service Workshops		2.3.1	Identify Water Management Strategies
				2.3.2	Additional Strategy Engineering
1.4		Estimate Future Water Demands		2.3.3	Subject Matter Expert Engagement
		Review Water Demand Estimates			,
		Develop Demand Forecasts	2.4		Develop and Evaluate Strategies and Portfolios
	1.4.3	Demand Verification		2.4.1	Strategy Modeling
1.5		Associated and delice Control and Piles Desiries Control Control		2.4.2	Project Evaluation Tool
	1 - 1	Assemble Modeling System and Pilot Decision Support System		2.4.3	Evaluate Strategies
		Develop Water Resources Models Create Data Management System		2.4.4	Water Management Portfolios
		Modeling Approach Engagement			
	1.5.5	Wodeling Approach Engagement	2.5		Prepare Little River Watershed IWRP
				2.5.1	Preferred Portfolio
				2.5.2	Prioritized Water Management Strategies and Selected Portfolio Technical Memorandur
				2.5.3	Adaptive Plan
				2.5.4	IWRP Report







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