

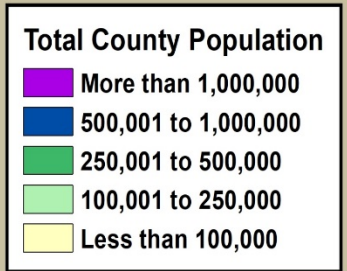
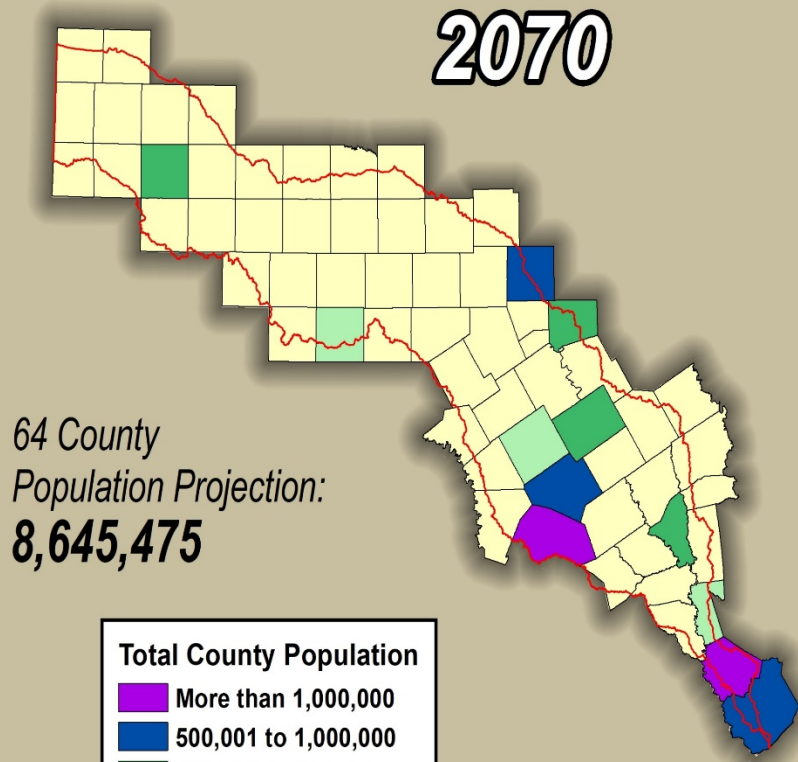
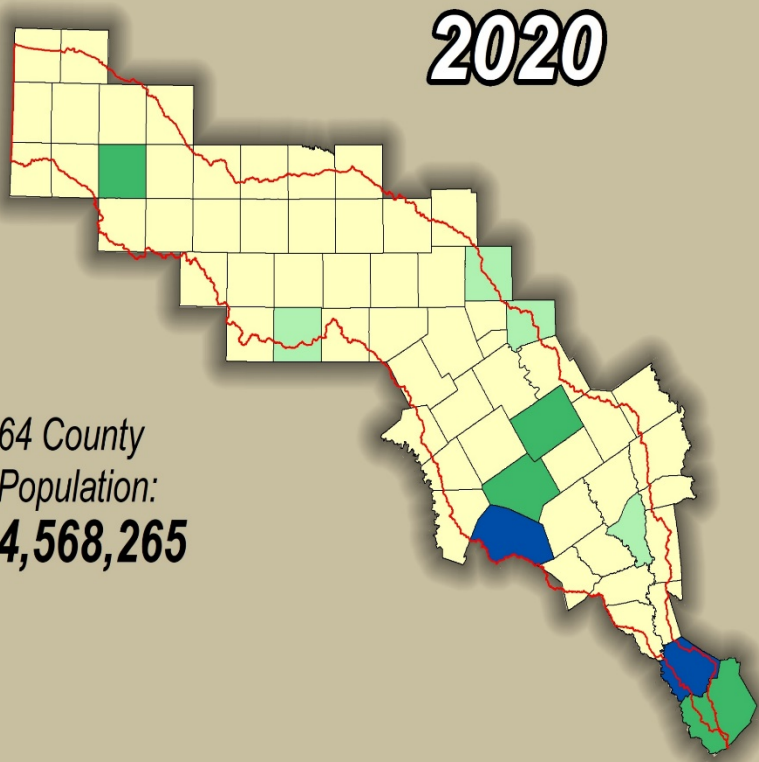


Integrated Water Resource Plan (IWRP)

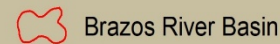
***Presented by
Jon King
Special Projects & Strategic Initiatives Manager***

Brazos Basin Population Growth

Projected Increase: 4,077,210



Prepared by





IWRP

Answers two key questions:

1. ***What else?*** What else does the BRA need to do beyond the Regional Water Planning process to meet its water needs?
2. ***What next?*** After the currently planned projects are completed, what should be done next to meet future needs?

Key Drivers

- **Water Scarcity**
- **Future Uncertainty**
- **Comprehensive Basin-Wide Planning**
- **Guide Future Investments**



Future Water Supply

Integrated

- Holistic planning
- Diversified portfolio
- Regional opportunities

Reliable

- Account for uncertainty
- Account for risks
- Support community goals

Resilient

- Minimize length of shortages
- Recover from stressors
- Continuity of service

Sustainable

- Renewable water supplies
- Consider long-range impacts
- Adaptive planning



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
- 1.1.4 Develop Work Plan

1.2 Identify and Prioritize Issues, Risks and Uncertainties

- 1.2.1 Conduct Risk Workshops
- 1.2.2 Prioritization of Risks and Uncertainties

1.3 Select Key Performance Indicators and Level of Service Goals

- 1.3.1 Identify Key Performance Indicators
- 1.3.2 Establish Level of Service Goals
- 1.3.3 Conduct Key Performance Indicator and Level of Service Workshops

1.4 Estimate Future Water Demands

- 1.4.1 Review Water Demand Estimates
- 1.4.2 Develop Demand Forecasts
- 1.4.3 Demand Verification

1.5 Assemble Modeling System and Pilot Decision Support System

- 1.5.1 Develop Water Resources Models
- 1.5.2 Create Data Management System
- 1.5.3 Modeling Approach Engagement

2.1 Assess Hydrologic and System Vulnerabilities

- 2.1.1 Baseline Conditions
- 2.1.2 Future Hydrology
- 2.1.3 Risk Modeling

2.2 Develop Planning Scenarios

- 2.2.1 Key Drivers
- 2.2.2 Scenario Definition

2.3 Identify and Analyze Water Management Strategies

- 2.3.1 Identify Water Management Strategies
- 2.3.2 Additional Strategy Engineering
- 2.3.3 Subject Matter Expert Engagement

2.4 Develop and Evaluate Strategies and Portfolios

- 2.4.1 Strategy Modeling
- 2.4.2 Project Evaluation Tool
- 2.4.3 Evaluate Strategies
- 2.4.4 Water Management Portfolios

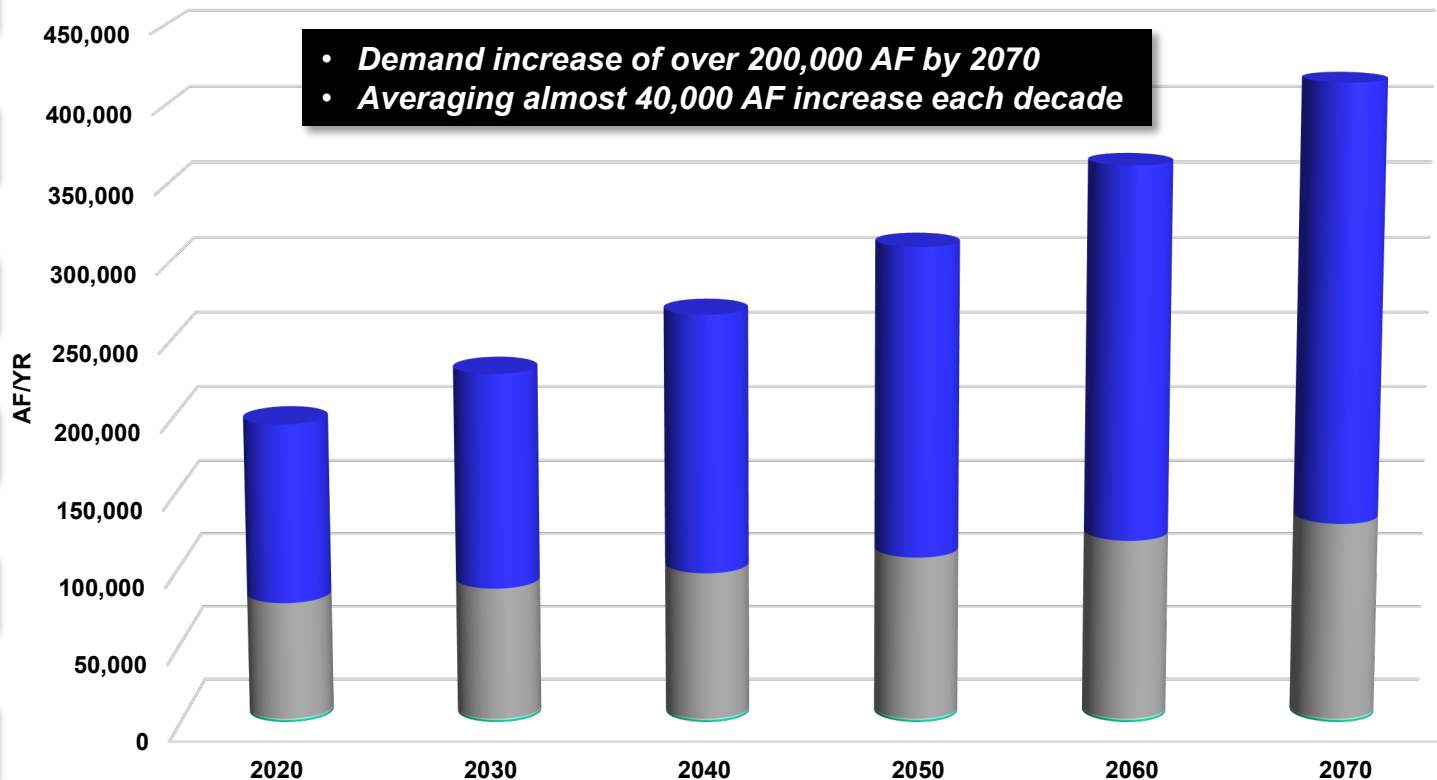
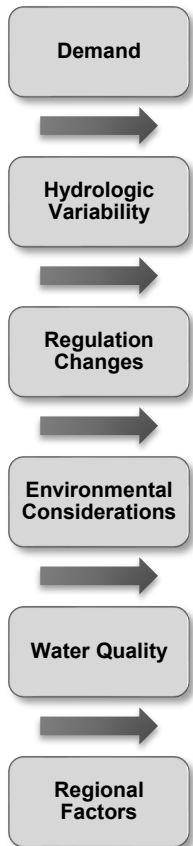
2.5 Prepare Little River Watershed IWRP

- 2.5.1 Preferred Portfolio
- 2.5.2 Prioritized Water Management Strategies and Selected Portfolio Technical Memorandum
- 2.5.3 Adaptive Plan
- 2.5.4 IWRP Report



Bell and Williamson County Demand Projections

■ Bell County ■ Williamson County





Resolution

“BE IT RESOLVED that the Board of Directors of the Brazos River Authority hereby authorizes the General Manager/CEO to negotiate and execute a professional services agreement with Stantec Consulting Services Inc. for the development of Phase I of the Integrated Water Resource Plan for an amount not to exceed \$1,439,754.00”.



**Brazos
River
Authority**