

Water for Texas

Water for the Future



Kathleen Jackson, P.E.

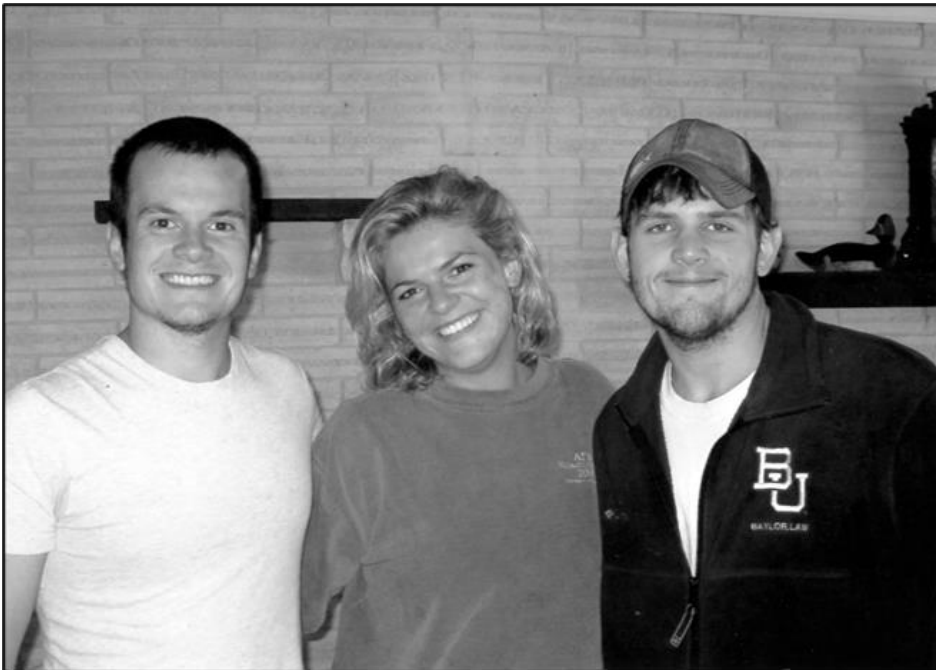
Lower Rio Grande Valley

24th Annual Water Quality Management & Planning Conference

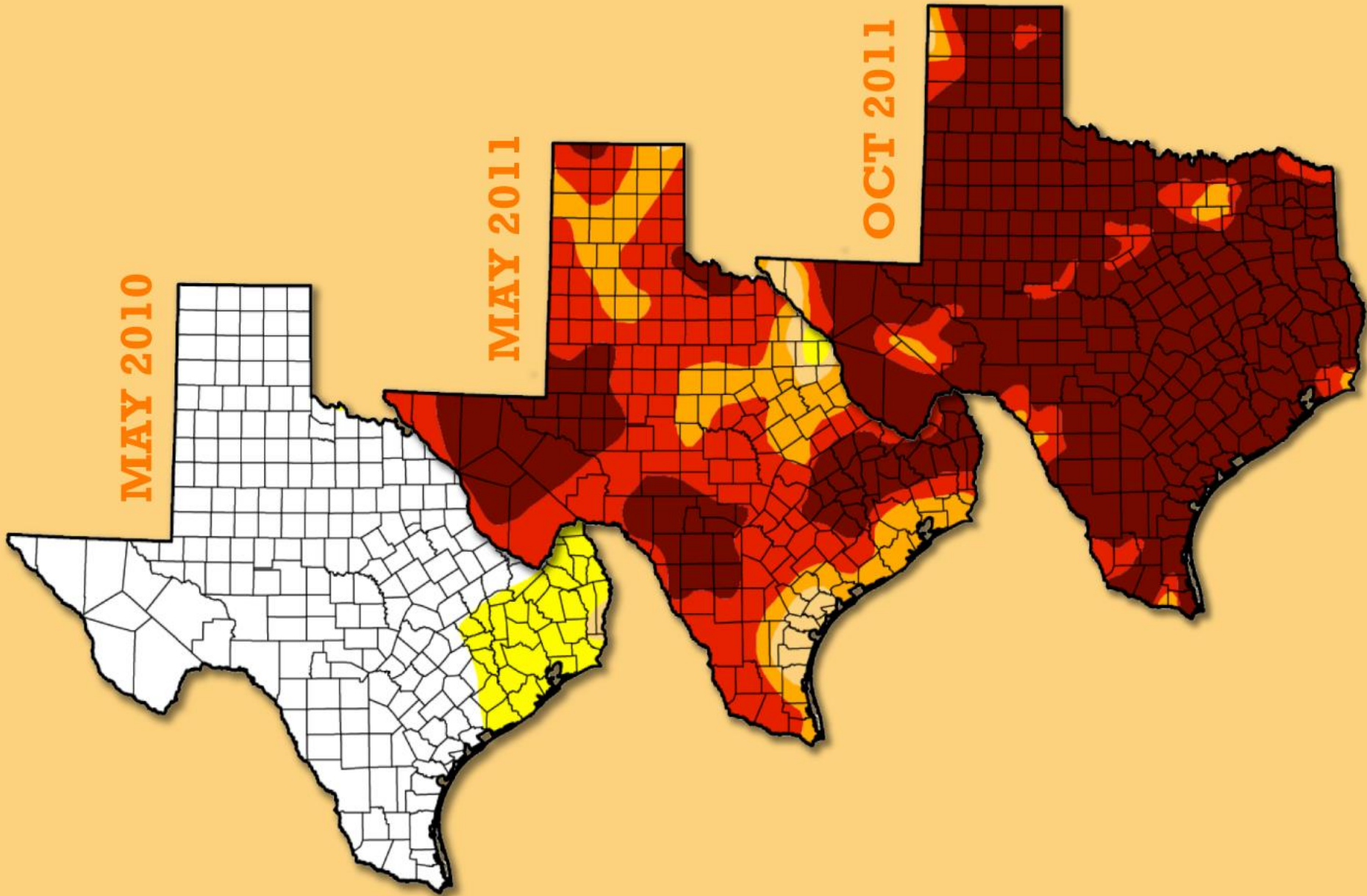
June 10, 2022

TEXAS WATER DEVELOPMENT BOARD

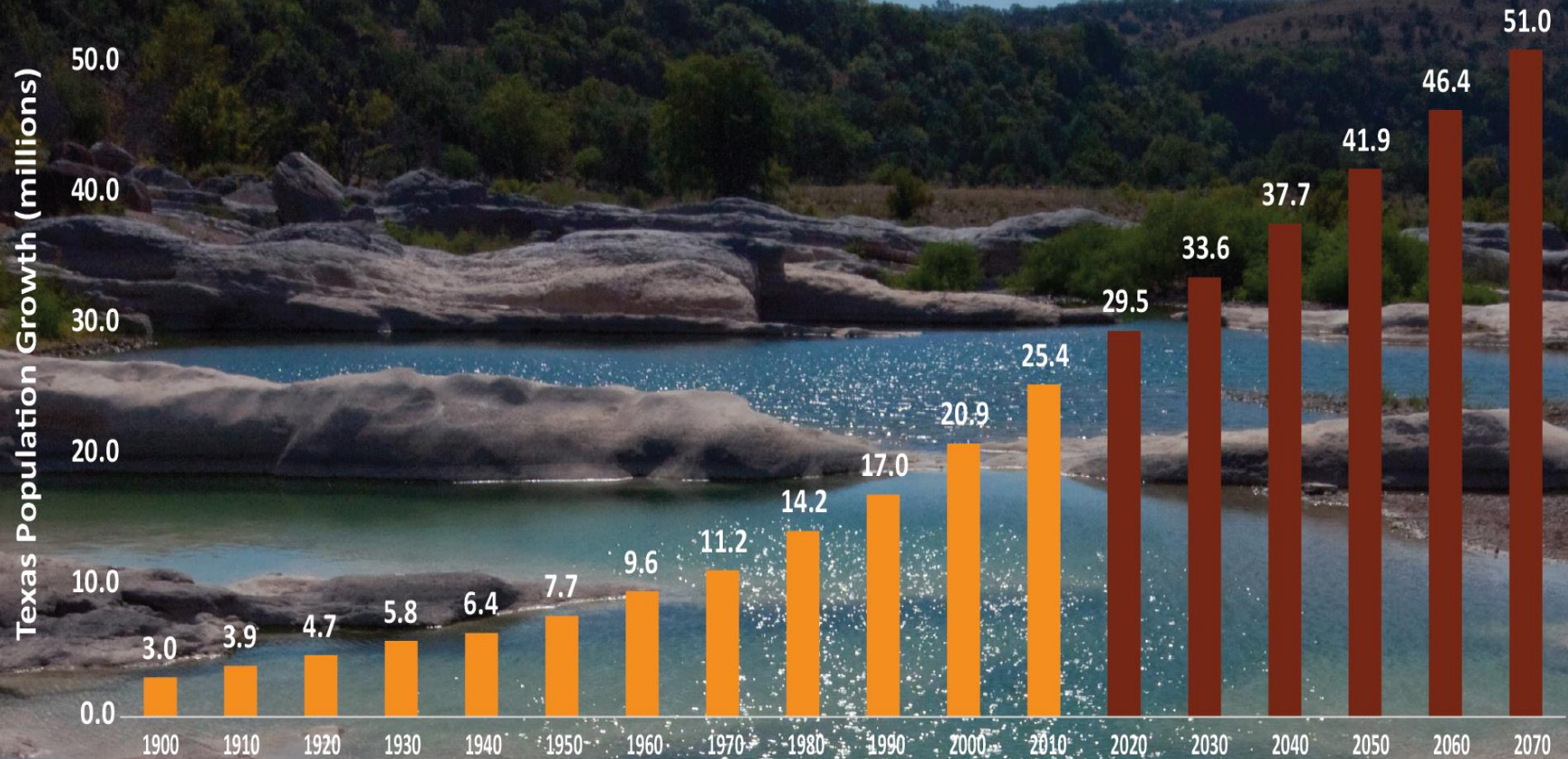
Lead the State's Efforts in Ensuring a Secure Water Future for Texas and its Citizens



DROUGHT IN TEXAS

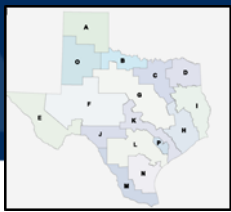


HISTORIC AND PROJECTED TEXAS POPULATION GROWTH



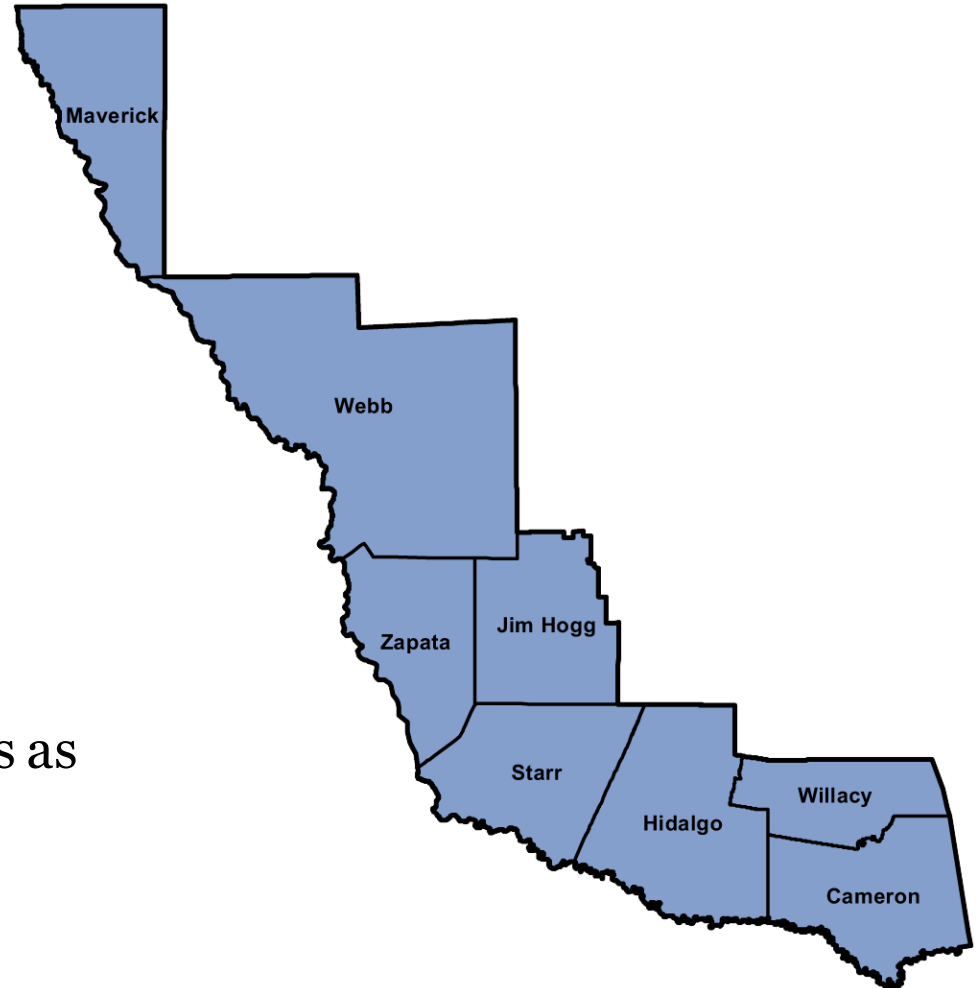
HOW CAN WE PROMOTE RESILIENCY?

- **Conservation**
- **Reuse**
- **Brackish Groundwater Desal**
- **Seawater Desal**
- **Aquifer Storage and Recovery**
- **Aquifers**
- **Reservoirs**



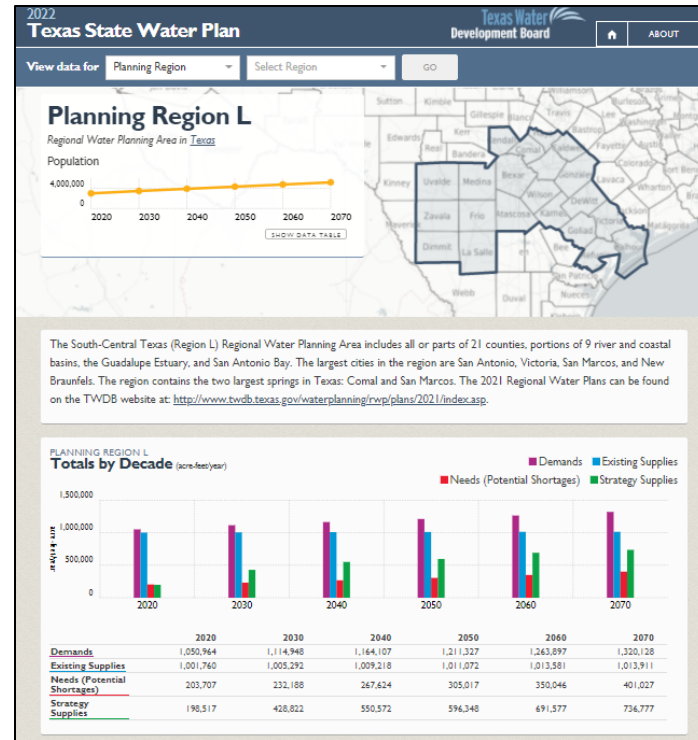
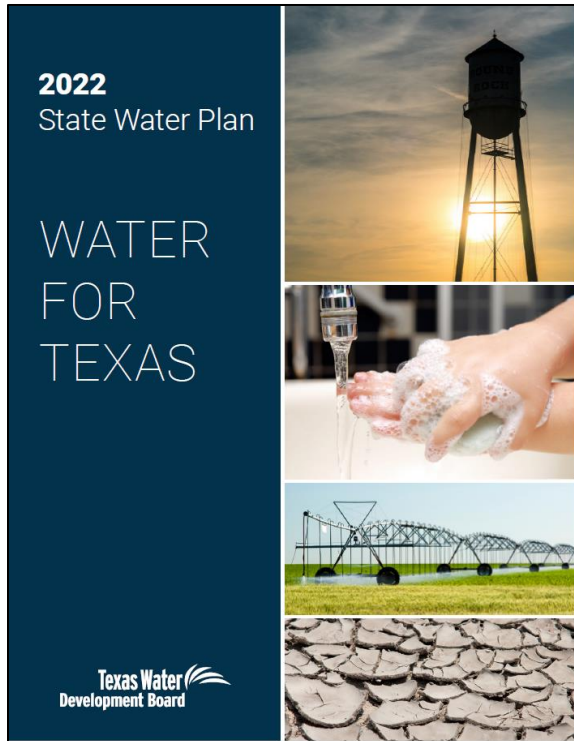
REGIONAL WATER PLANNING GROUPS

Region M



- Local Political Subdivision serves as administrator
- Public, consensus-driven
- Local/regional decision-making process

INTERACTIVE 2022 STATE WATER PLAN

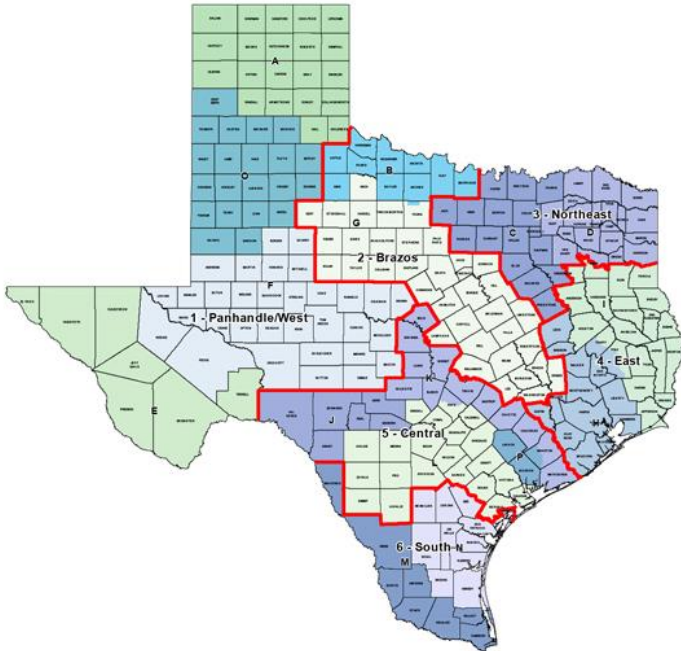


- Texas' population is projected to increase 73%
- Water demand is projected to increase 9%
- Existing water supplies are expected to decline 18%
- Potential water shortages during a drought of record: 6.9M ac-ft

REGIONAL WATER PROJECT DEVELOPMENT

Regional Project Teams

- Manager
- Financial Analyst
- Engineer
- Attorney
- Project Reviewer



FINANCIAL ASSISTANCE PROGRAMS

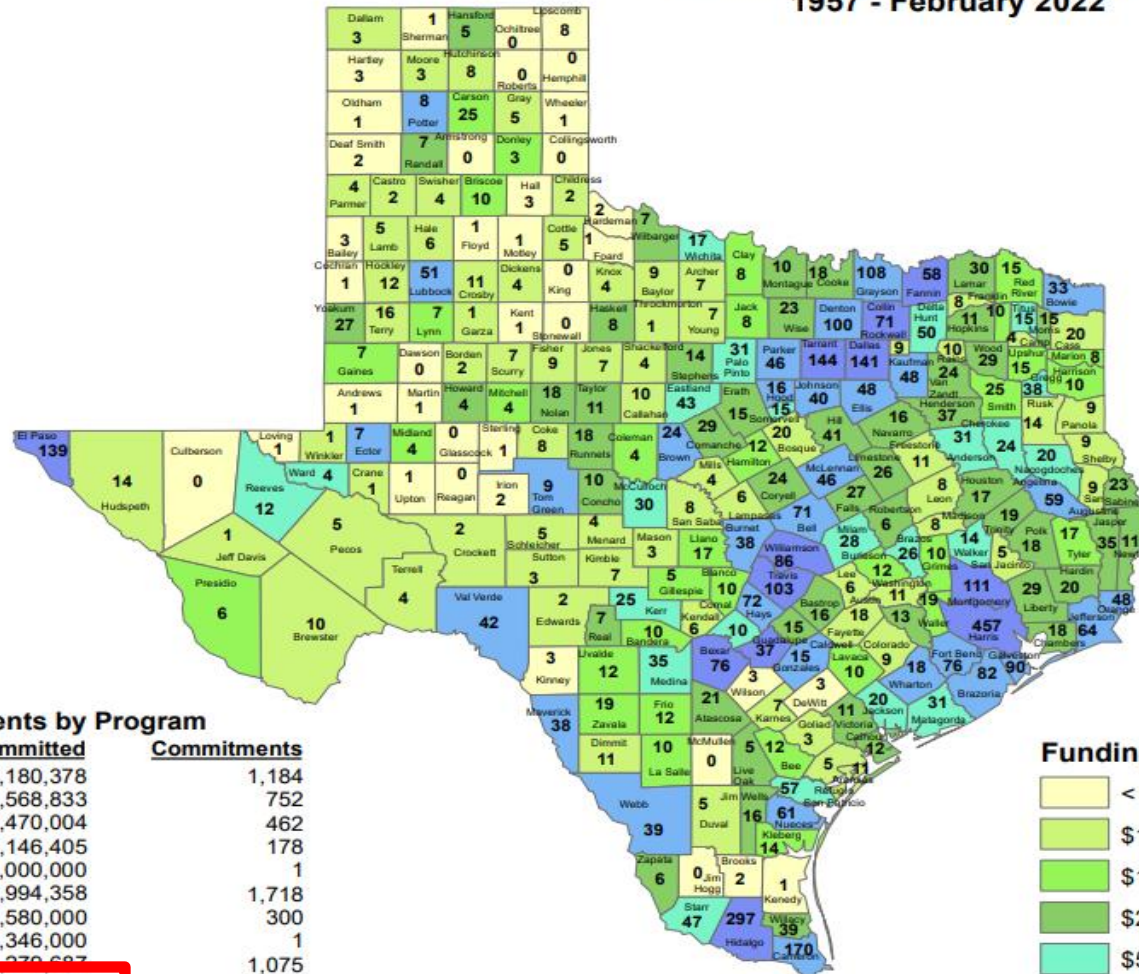
- State Programs
 - SWIFT
 - FIF
 - Development Fund
 - EDAP
 - Agriculture Program

- Federal Programs
 - Clean Water State Revolving Fund
 - Drinking Water State Revolving Fund



COMMUNITIES TURNING PLANNING INTO PROJECTS!

Funding Commitments Since Inception
1957 - February 2022



Funding and Commitments by Program

Program	Amount Committed	Commitments
CWSRF	\$11,086,180,378	1,184
DWSRF	3,588,568,833	752
EDAP	912,470,004	462
FIF	396,146,405	178
FLOOD	30,000,000	1
STATE	5,373,994,358	1,718
SWIFT	9,252,580,000	300
WIIN	3,346,000	1
Historical Federal Program	1,870,270,667	1,075
Total	\$32,522,565,665	5,671

Notes: The Amount Committed and the number of Commitments represent the total amount and number of initial commitments made since the Agency's inception. These amounts have not been reduced for any projects that did not close on the TWDB's financial assistance. The Historical Federal Program referenced was the Construction Grant Program, a federal grant program created to fund wastewater projects prior to the CWSRF.

Funding by County



TWDB SWIFT FUNDED PROJECTS



Hidalgo County Irrigation District #1
SWIFT - \$7,100,000
Ag Irrigation Conveyance System Improvements



United Irrigation District
SWIFT - \$8,100,000
Off Channel Storage Facility

CHALLENGES AND OPPORTUNITIES



Water Planning



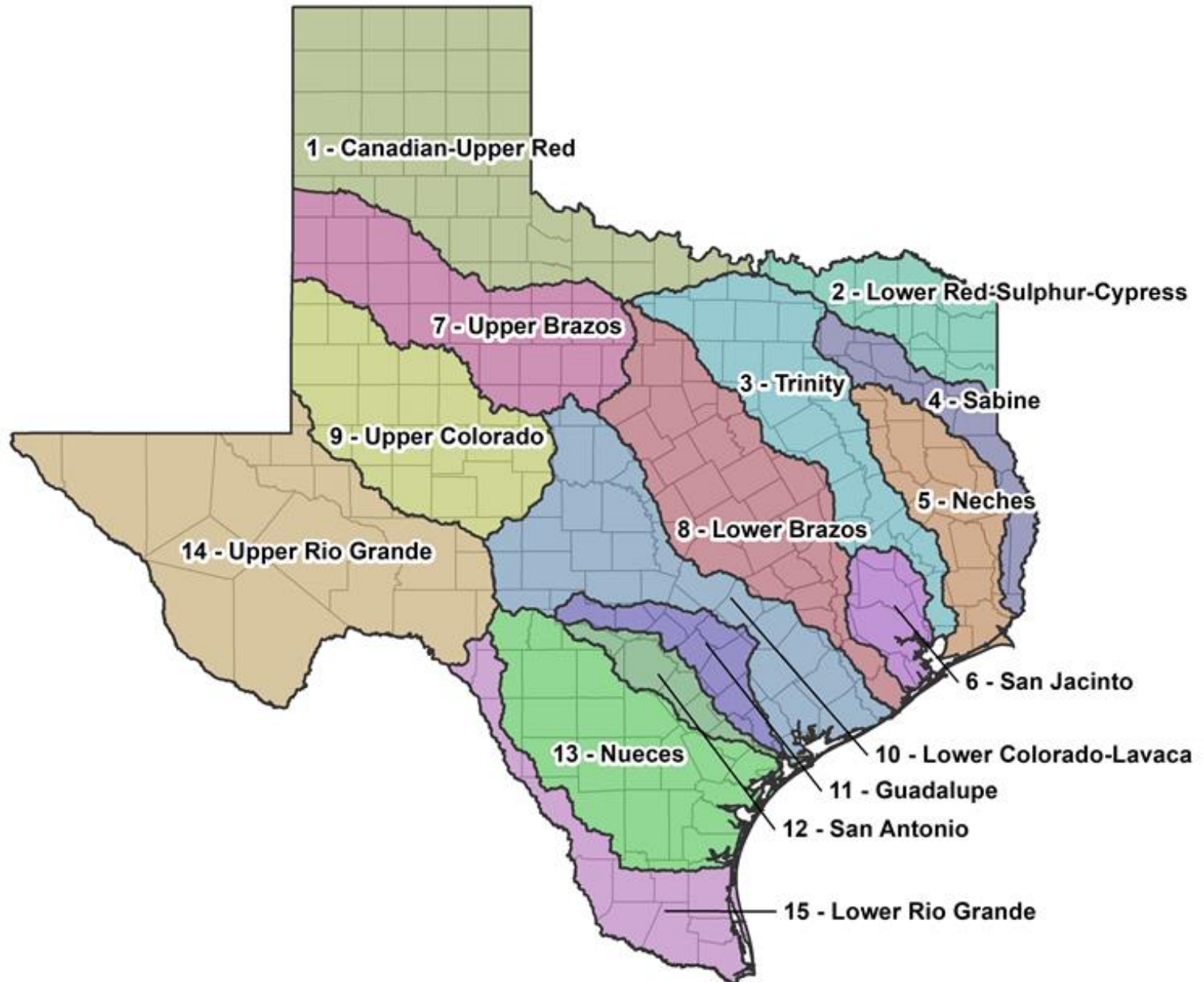
Flood Planning

BE CHAMPIONS FOR REGIONAL COLLABORATION!

- “Future-proofing” Texas
- Neighbors upstream and downstream promoting resiliency



15 REGIONAL FLOOD PLANNING GROUPS



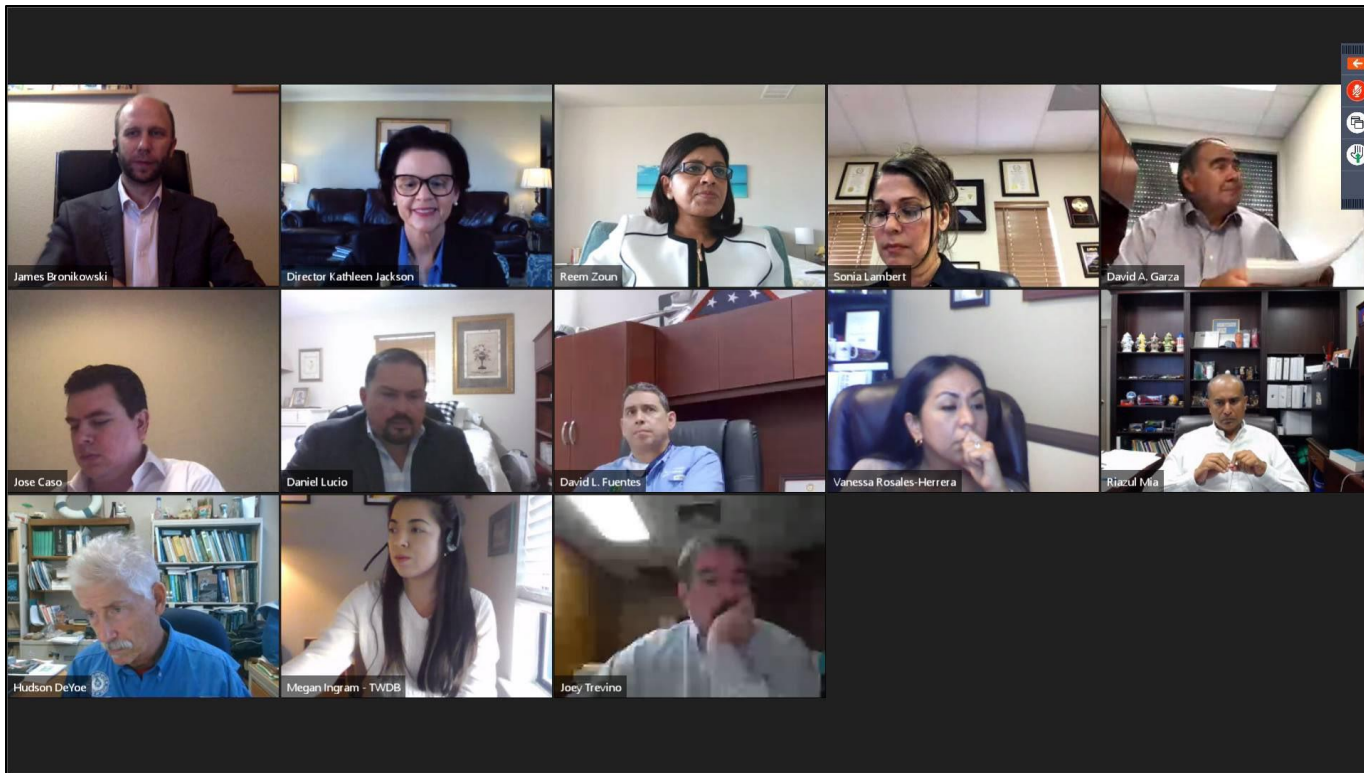


REGIONAL FLOOD PLANNING



- First-of-its-kind statewide flood plan
- Watershed-based planning regions
- Bottom-up approach to flood planning
- Transparent process with public input
- Volunteer members representing interest categories

REGION 15: LOWER RIO GRANDE REGIONAL FLOOD PLANNING GROUP

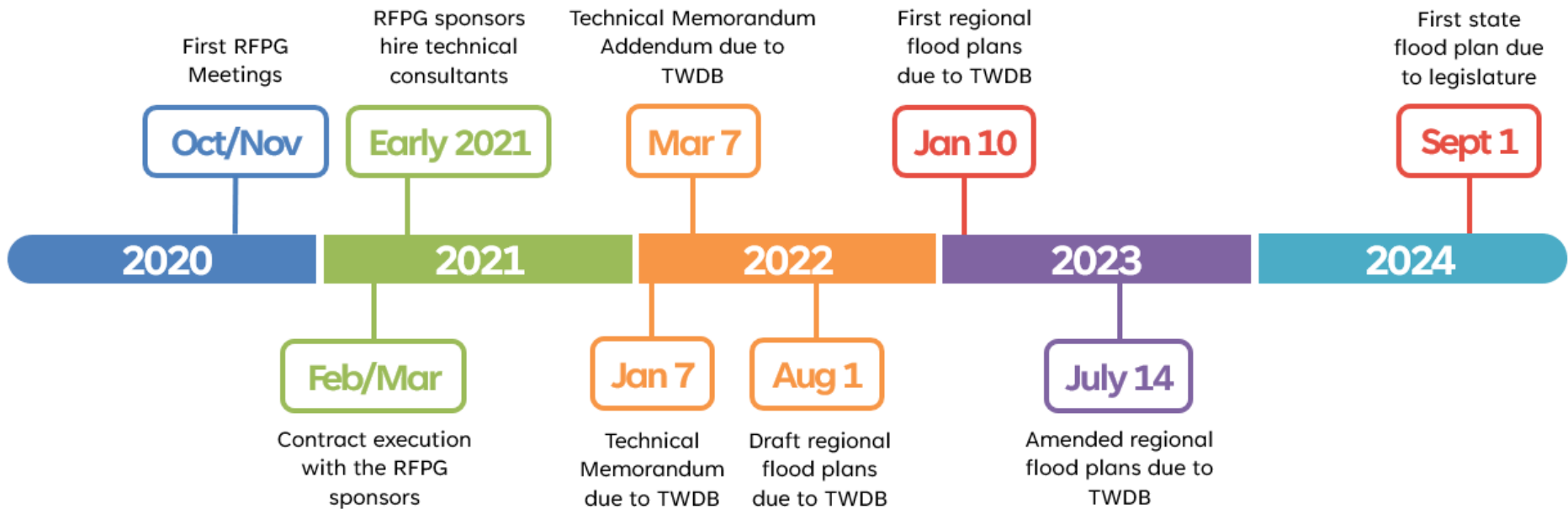


Planning Group Sponsor: Hidalgo County Drainage District No. 1

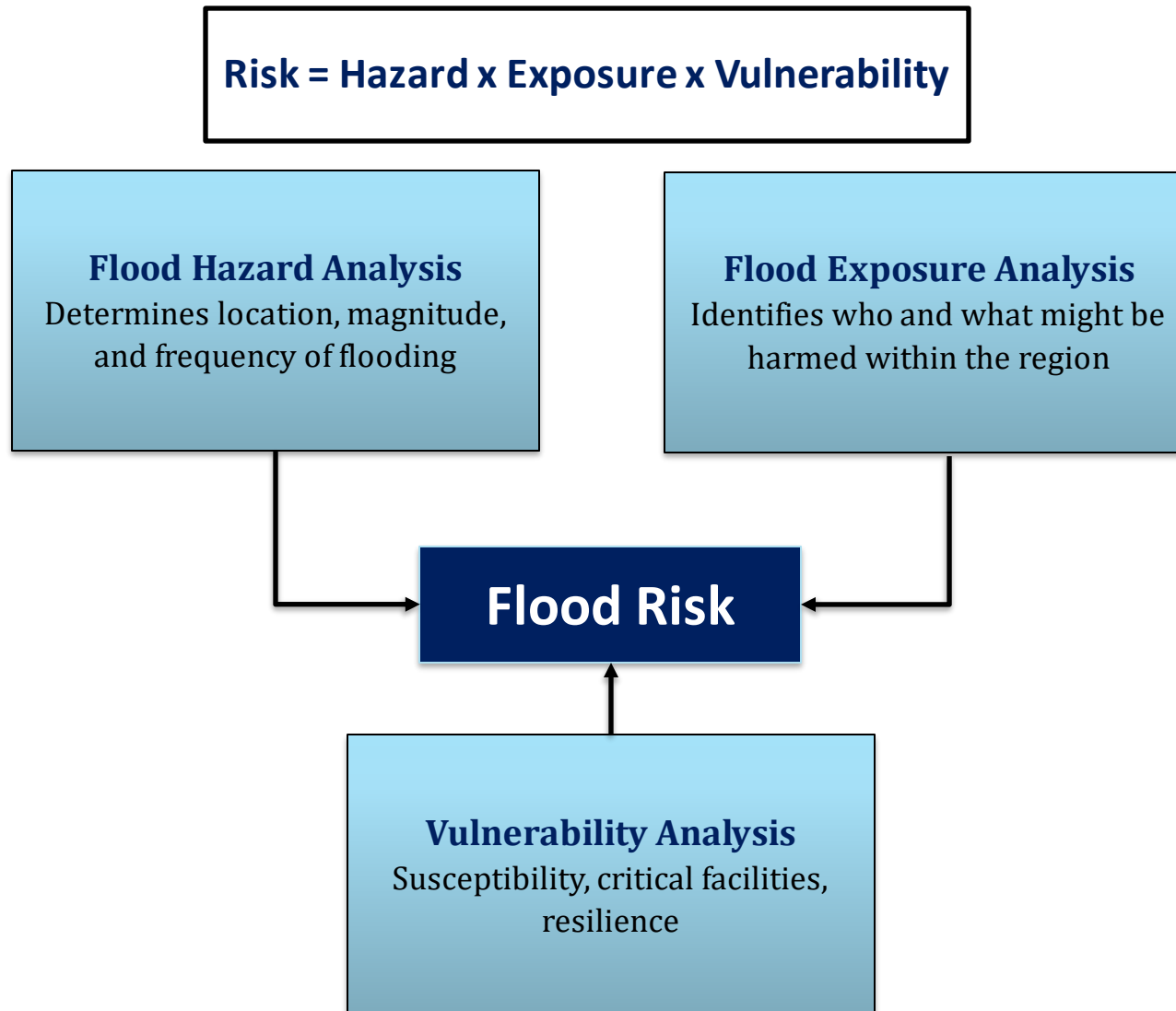
Planning Group Chair: David Garza

RFPG Meetings: <https://www.twdb.texas.gov/flood/planning/regions/schedule.asp>

REGIONAL FLOOD PLANNING GROUP TIMELINE



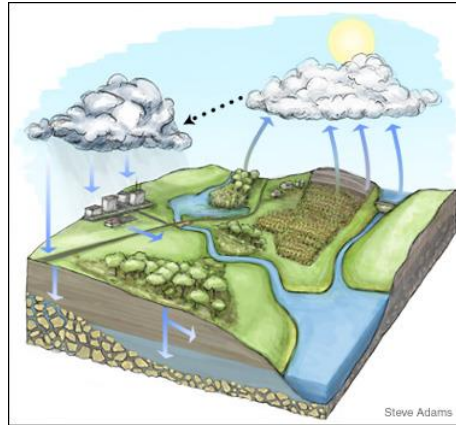
REGIONAL FLOOD PLAN COMPONENTS



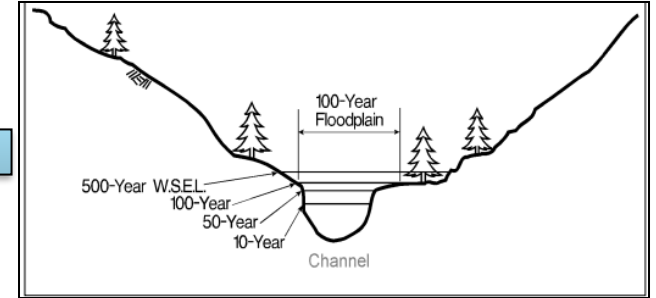
THE BETTER THE DATA, THE BETTER THE SCIENCE... THE BETTER THE SCIENCE, THE BETTER THE POLICY!



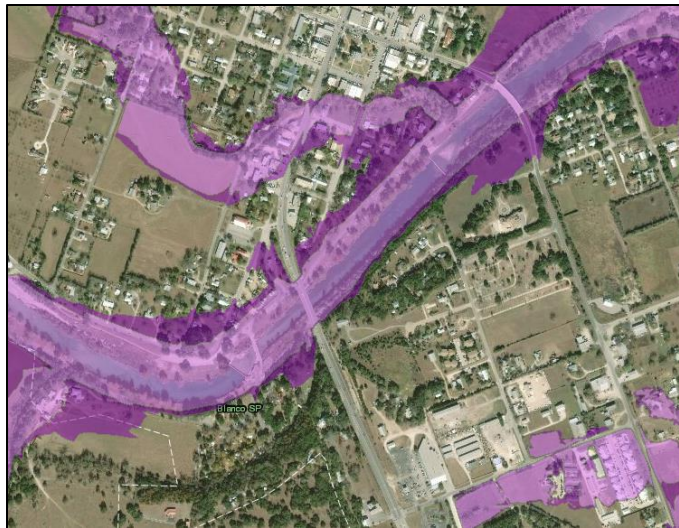
LiDAR



Hydrology

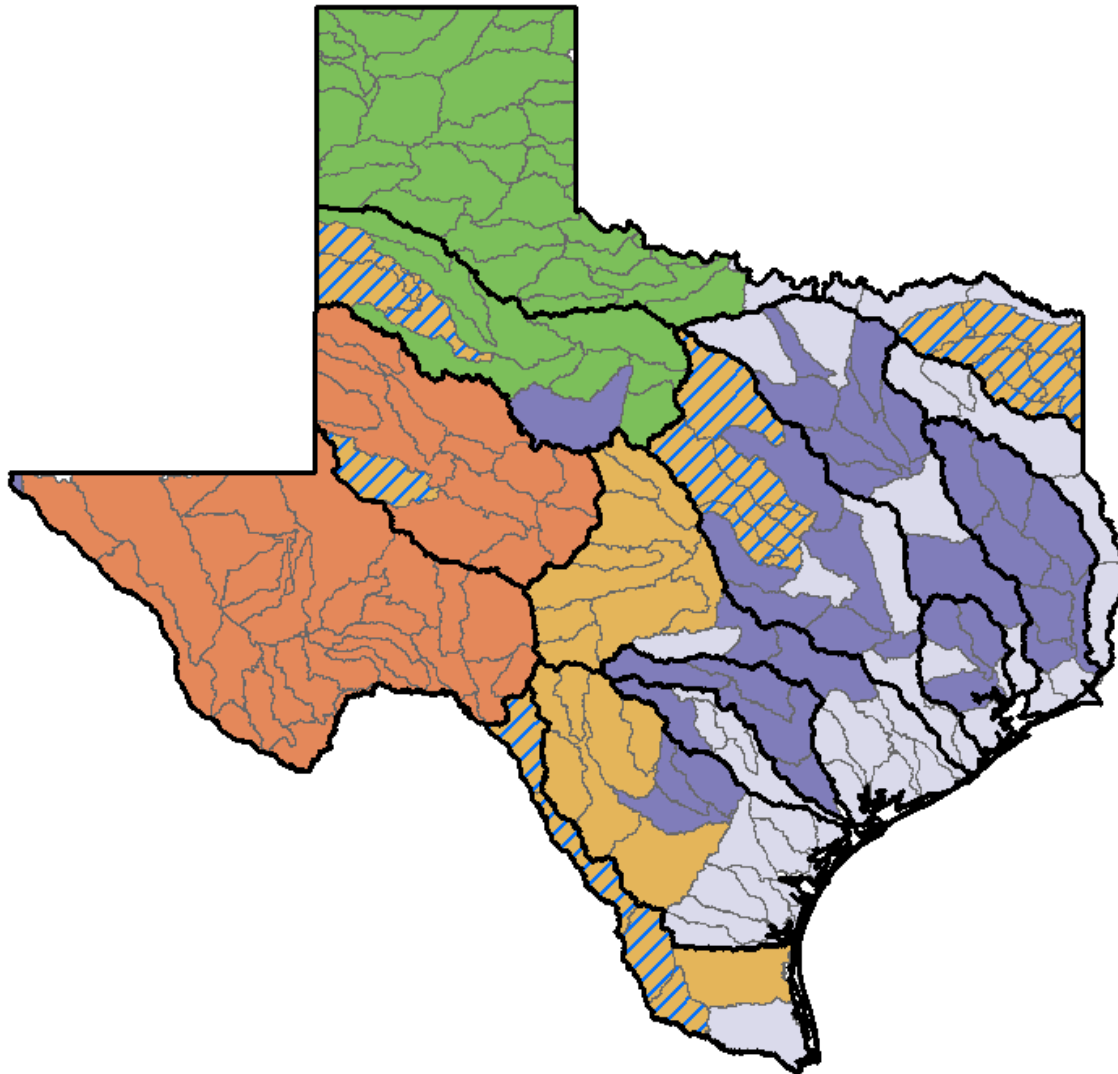


Hydraulics



FLOOD MAP

BASE LEVEL ENGINEERING (BLE) STATUS



 Completed

 In Progress

Next Steps

 FY 2022*

 FY 2023*

 FY 2024*

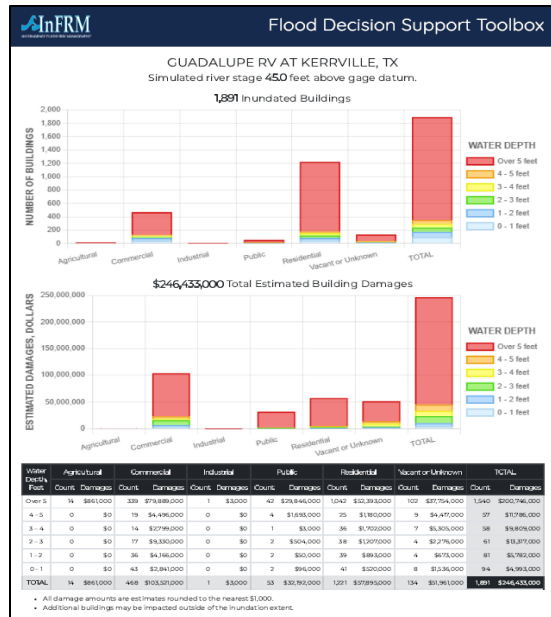
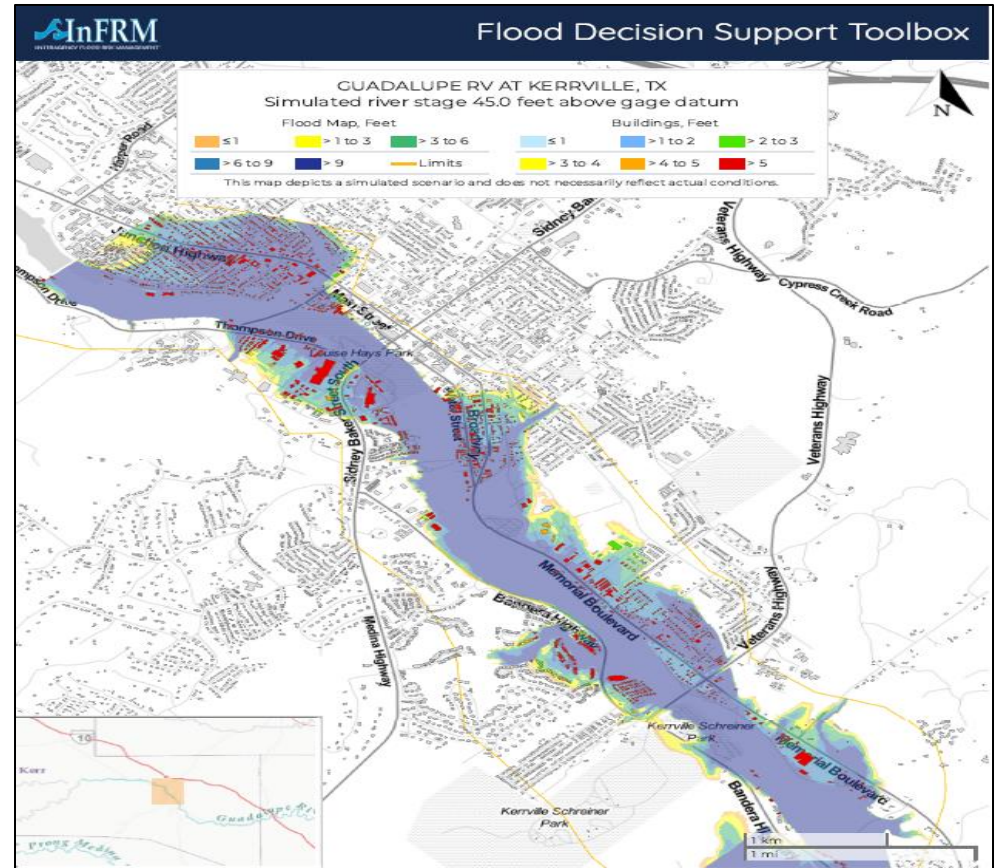
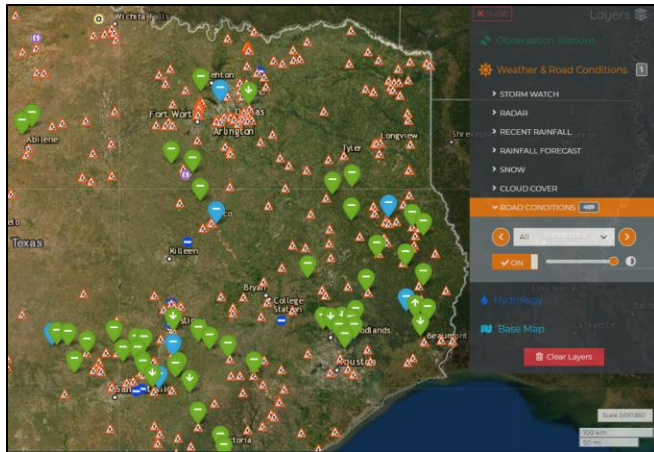
Project Assignments

 Contracted beginning February 2021

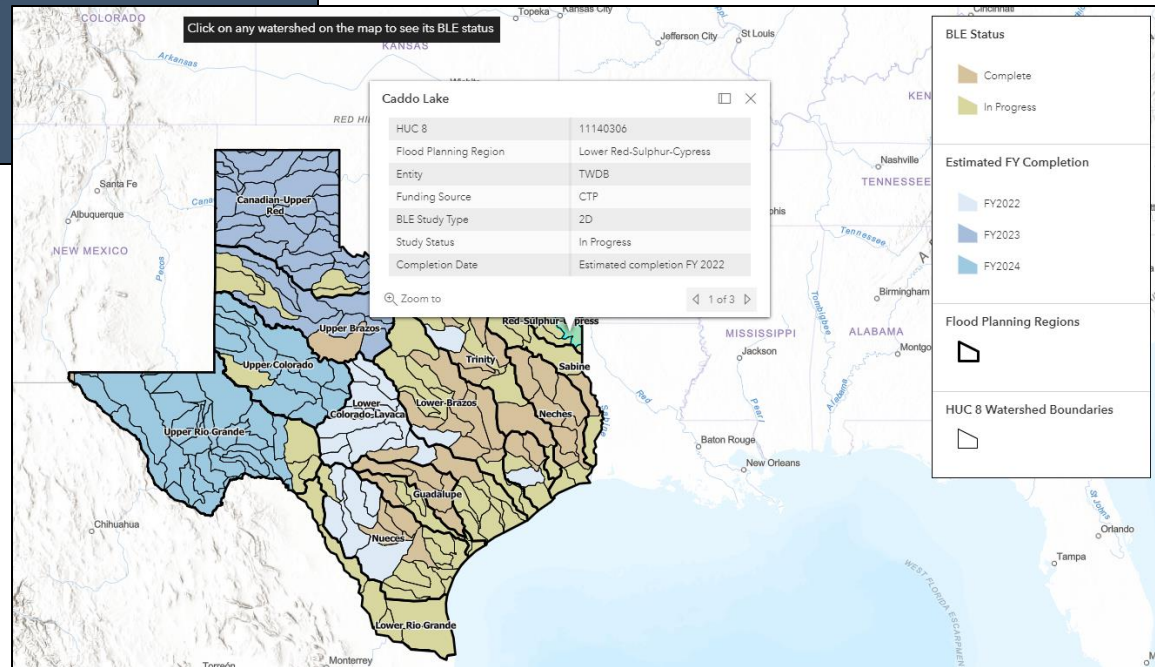
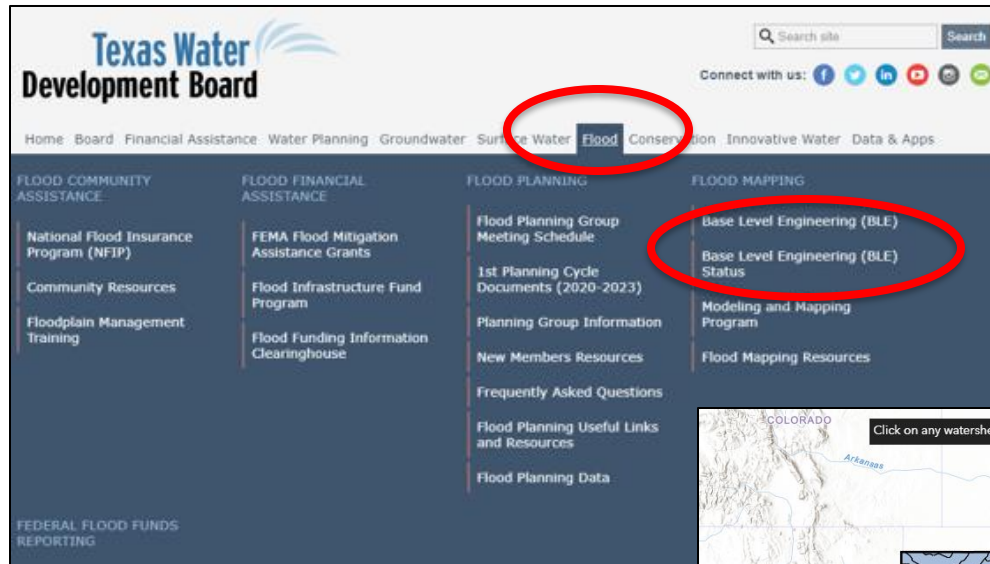
*Estimated fiscal year completion dates

Estimated Base Flood Elevation Viewer
<https://webapps.usgs.gov/infrm/estBFE/>

FLOOD DECISION SUPPORT TOOLBOX



TWDB FLOOD MAPPING WEBPAGES



FLOOD INFRASTRUCTURE FUND (FIF) PROJECT REPORTING DASHBOARD



Flood Infrastructure Fund Committed Projects

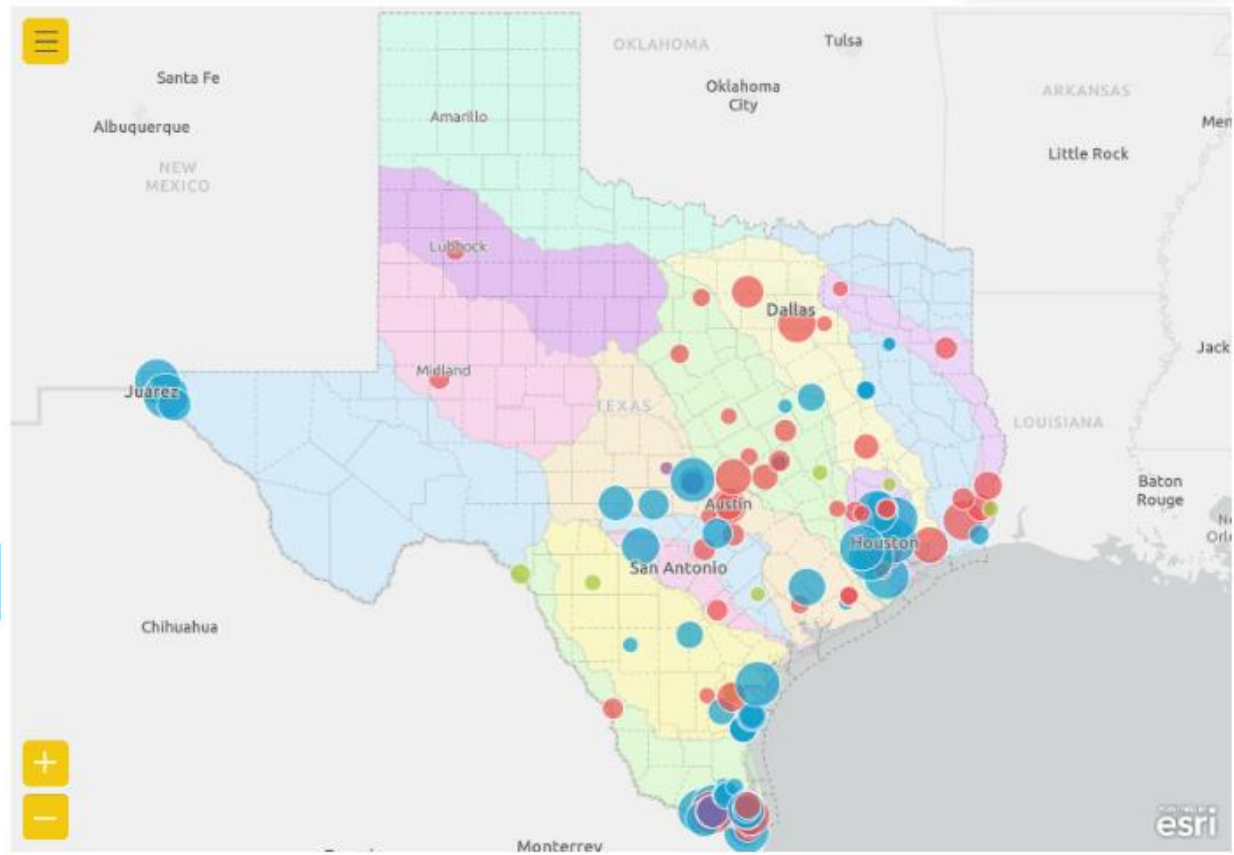
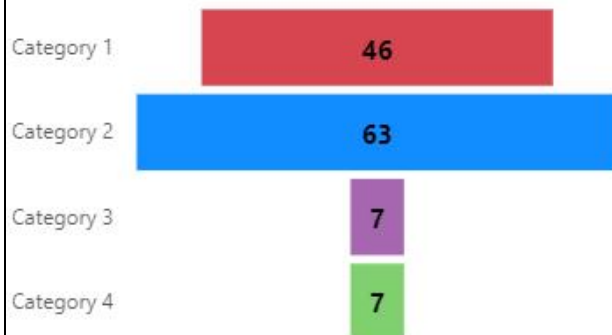
Clear Filters

Project Details

Active and Completed Project Commitments

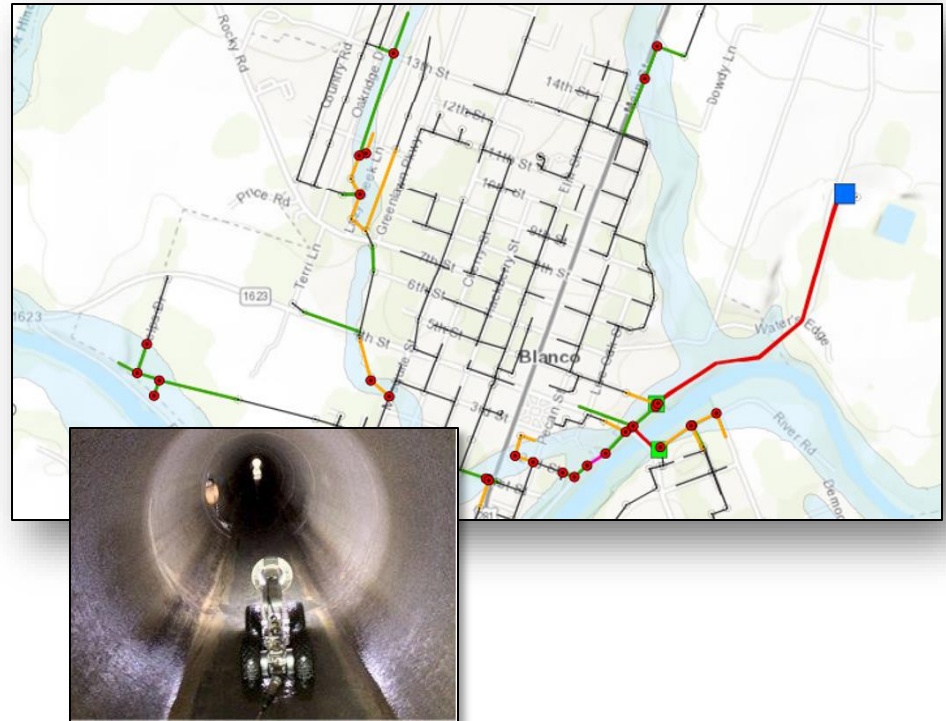
123

Committed Amount
\$391,796,967



A RESILIENT FUTURE FOR COMMUNITIES!

- Asset management pays off
- Build it with today's dollars
- Take advantage of low interest rates
- Promote reliability and operational integrity



ASSET MANAGEMENT PROGRAM FOR SMALL SYSTEMS

Asset Management Program for Small Systems (AMPSS) Participant Application and Request for Qualifications

Request for qualifications will be accepted from May 31 through June 30

Participant system applications will be accepted from June 6 through July 21

The Texas Water Development Board (TWDB) posted a request for qualifications (RFQ) on May 31 on the Electronic State Business Daily (ESBD) website for vendors interested in being contractors for Asset Management Program for Small Systems (AMPSS) projects. Statements of qualifications will be accepted from May 31 through June 30.

The application for water and wastewater systems interested in being AMPSS participants will be posted on the TWDB website and accepted from June 6 through July 21.

The Asset Management Program for Small Systems is a funding opportunity offered by the TWDB to assist small water and wastewater systems by creating a comprehensive plan for managing the systems in a financially and technically sustainable manner. Systems participating in AMPSS may choose a pre-qualified contractor to work with to create an asset management plan; operations, maintenance, and compliance manuals; and other management tools.

There is no financial match required of the systems, but they will be required to contribute at least 80 hours of their staff time towards the project. This project will help systems thoroughly inventory their assets; determine the condition and criticality of each asset; plan for short-, medium-, and long-term capital improvement projects; ensure adequate maintenance is planned for and conducted; and prepare the system for accessing the State Revolving Fund programs. Together, these tools and information will help the systems prepare for the future, train new staff, and communicate the needs of their system to their staff, governance, and citizens.

The participant system application, along with additional information about AMPSS, can be found at www.twdb.texas.gov/financial/programs/ampss/index.asp. **Please note that the participant system application will not be available until June 6.**

The RFQ for vendors interested in participating as contractors in AMPSS was posted on the ESBD website on May 31 and can be found at www.txsmartbuy.com/esbdetails/view/580-22-RFQ-0011.

Should you have any questions, please contact:

Patrick Kading

AMPSS Coordinator, Program Administration & Reporting

patrick.kading@twdb.texas.gov or AMPSS@twdb.texas.gov

512-936-8149

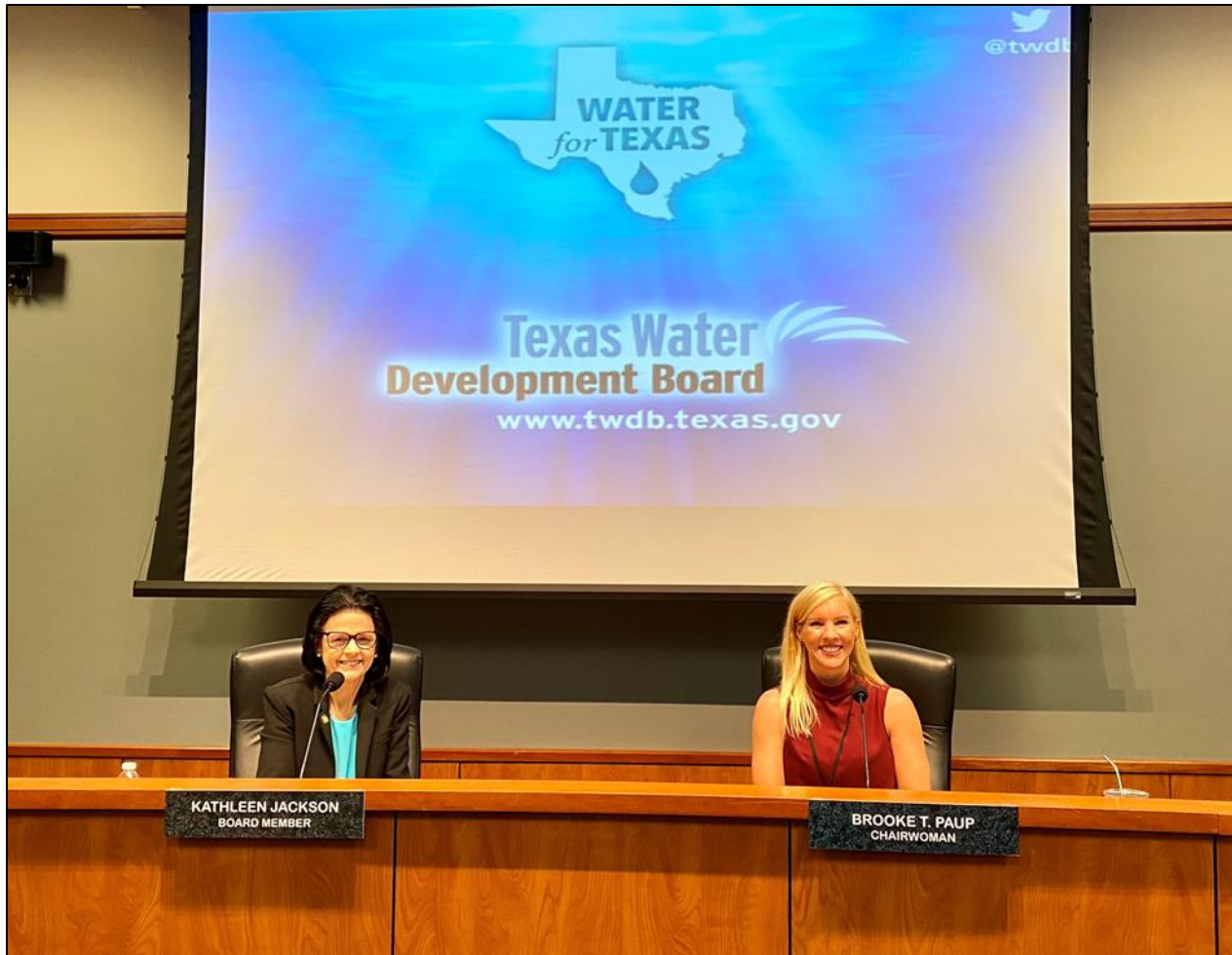


BUILDING A STRONGER TEXAS

Thank You for your Continued Partnership!



HOW TO CONTACT ME



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