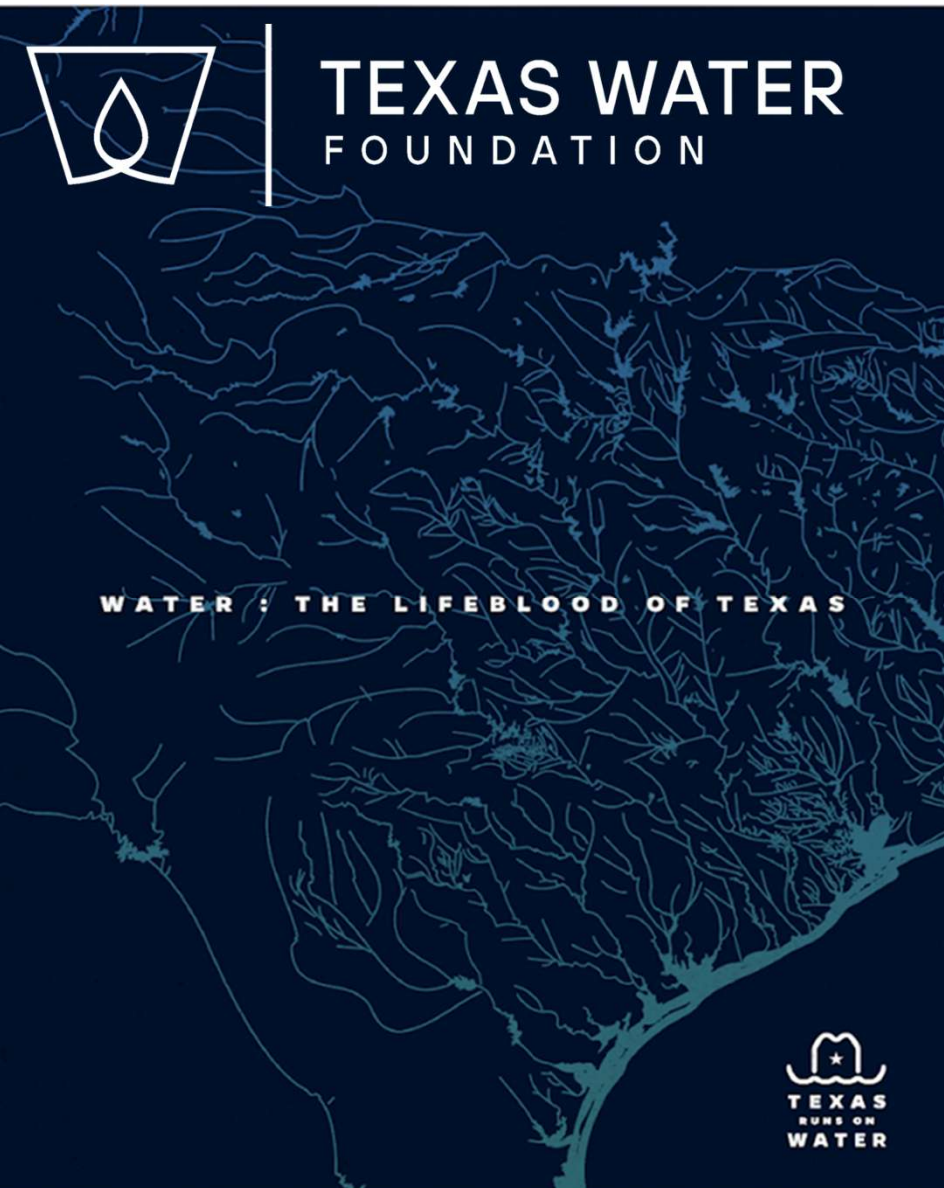
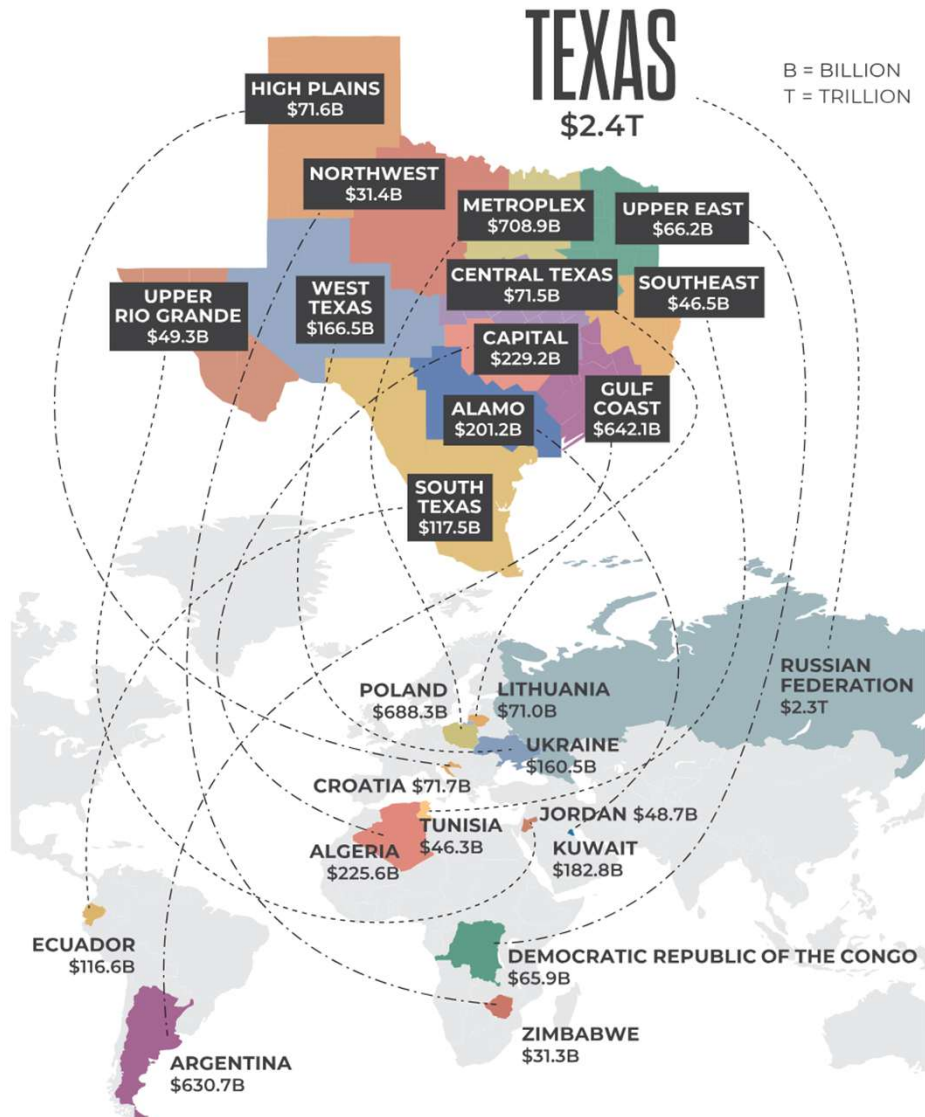




TEXAS WATER
FOUNDATION



STATE OF TEXAS WATER



Texas Economy: 8th globally

Texas is a high water risk state

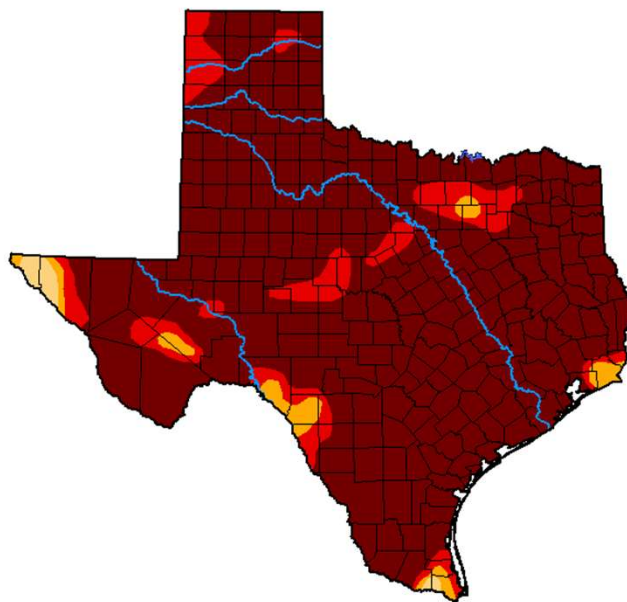
WATER RISK – the possibility of exposure to water-related hazards and challenges and their impacts

- water scarcity
- drought
- flood
- pollution
- aging infrastructure
- affordability



Drought

U.S. Drought Monitor Texas



September 13, 2011
(Released Thursday, Sep. 15, 2011)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	99.99	99.99	99.17	96.75	87.83
Last Week 09-08-2011	0.00	99.99	99.92	99.00	95.68	81.05
3 Months Ago 06-16-2011	1.98	98.02	96.52	94.76	88.56	64.77
Start of Calendar Year 01-06-2011	13.54	86.45	66.68	36.30	13.04	0.00
Start of Water Year 09-30-2010	75.56	24.43	2.43	0.99	0.00	0.00
One Year Ago 09-16-2010	77.92	22.07	3.37	0.97	0.00	0.00

Intensity:

None	D2 Severe Drought
D0 Abnormally Dry	D3 Extreme Drought
D1 Moderate Drought	D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

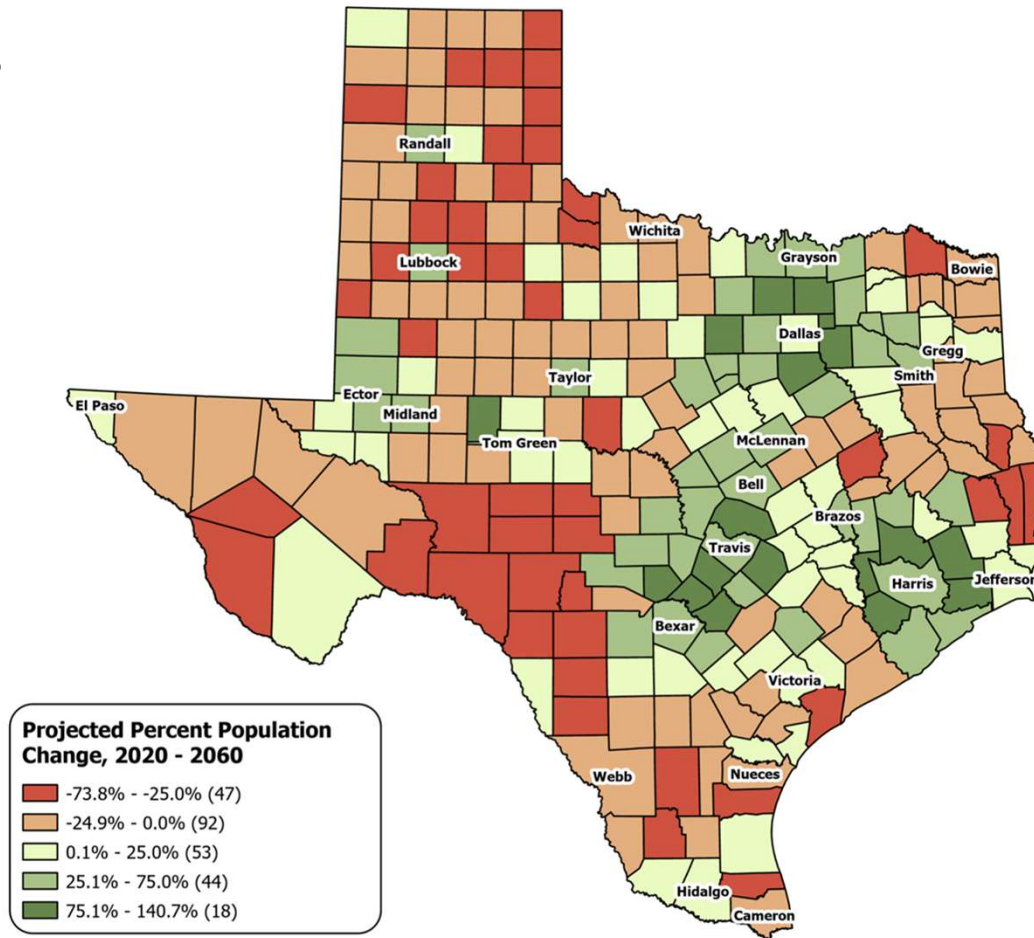
Mark Svoboda
National Drought Mitigation Center



droughtmonitor.unl.edu



Water Stress



Texas Demographic Center, Vintage 2024 Population Projections, Mid Migration Scenario

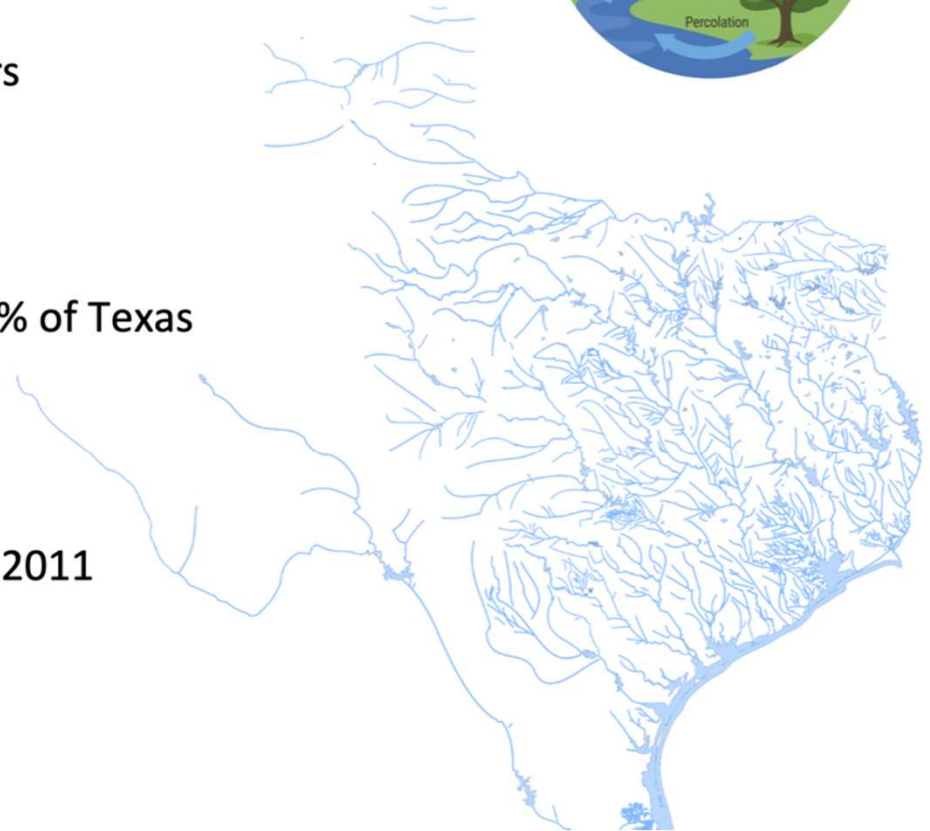
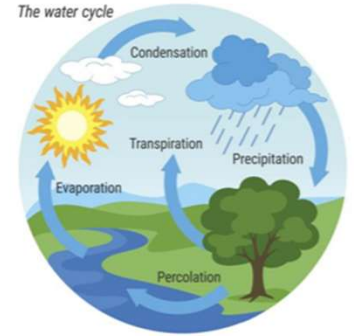


Natural Infrastructure

Declining Flows in almost 75% of Texas rivers

Depletion of Aquifers that supply almost 60% of Texas water budget

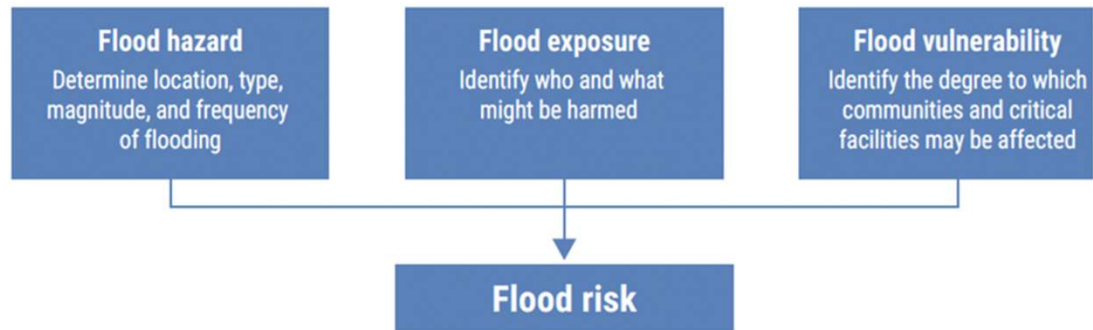
Intensifying Drought Conditions that mimic 2011 conditions



Flood

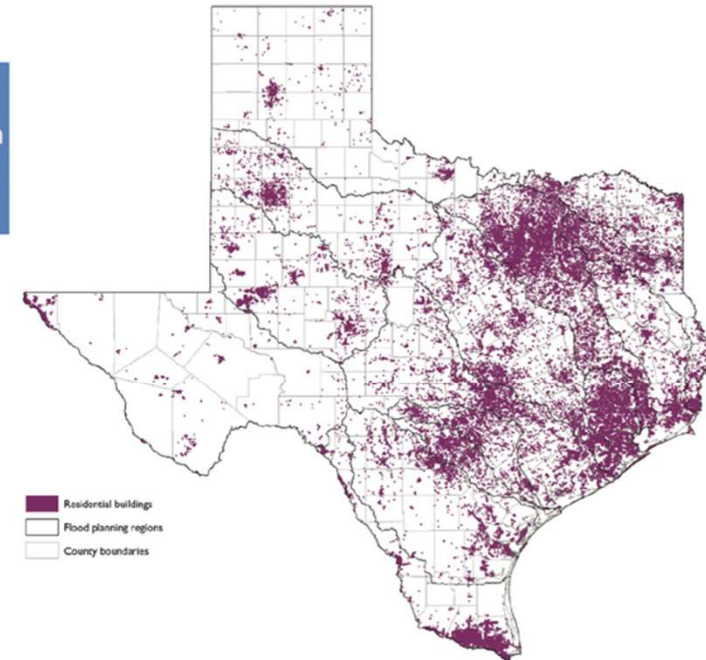
TEXAS WATER DEVELOPMENT BOARD

Figure 4-1. The three components of flood risk: hazard, exposure, and vulnerability



TEXAS WATER DEVELOPMENT BOARD

Figure ES-4. Existing residential buildings in the 1 percent (100-year) annual chance floodplain



Human Infrastructure

New Data Reveals Texas Water Workforce Challenges

A new study released by Texas Water Foundation and prepared by the Houston Advanced Research Center details results from a Texas water workforce survey and reveals that **attracting and retaining a skilled workforce is a significant concern** among other Texas water infrastructure challenges.

More than 270 individuals representing **water utilities, local government, state agencies, energy production, nonprofits, and research organizations** from all parts of Texas participated in the survey. Of those respondents, more than 70% were executives or managers.

 **63%** of respondents indicated that they are currently experiencing workforce-related challenges.

 **76%** indicated hiring and retaining qualified employees as a medium to high risk posed to their organizations in the future.

Results indicate that the top four top workforce challenges are staffing shortages, talent attraction, retention, and providing competitive wages.

According to the U.S. Bureau of Labor Statistics, the mean annual wage of a water or wastewater treatment plant and systems operator in Texas is \$41,240, falling significantly short of California's \$73,100 and well below the national average of \$52,320.



Other significant challenges ranked by respondents include:

- 79%** indicate *extreme weather, such as heatwaves, freezing, storms, floods, and droughts, as a medium to high risk*
- 78%** indicate *aging infrastructure as a medium to high risk*
- 68%** indicate *financing for capital improvements as a medium to high risk*

Read the full report at www.texaswater.org/policy



JANUARY 2015



Creating Infrastructure Pathways in Texas: Water and Broadband

Landscape Analysis and Recommendations

AUTHORS

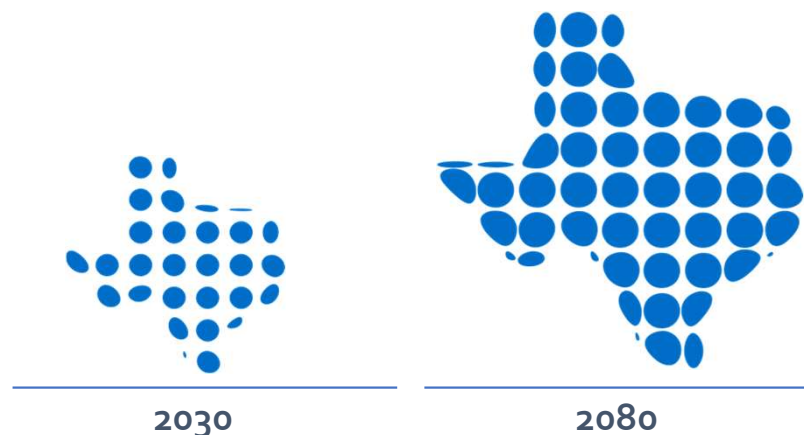
Caroline D'Andrea
Senior Manager, JFF

Farrah Farnese Roma
Director, JFF

PREPARED FOR



TEXAS WATER FORECAST



Texas' **population** is expected to **increase nearly 53%** between 2030 and 2080, from **34.2 million** to **52.3 million**

Water demands in 2080 are projected to increase by approximately

↑16%

Existing water supplies are expected to decline by approximately

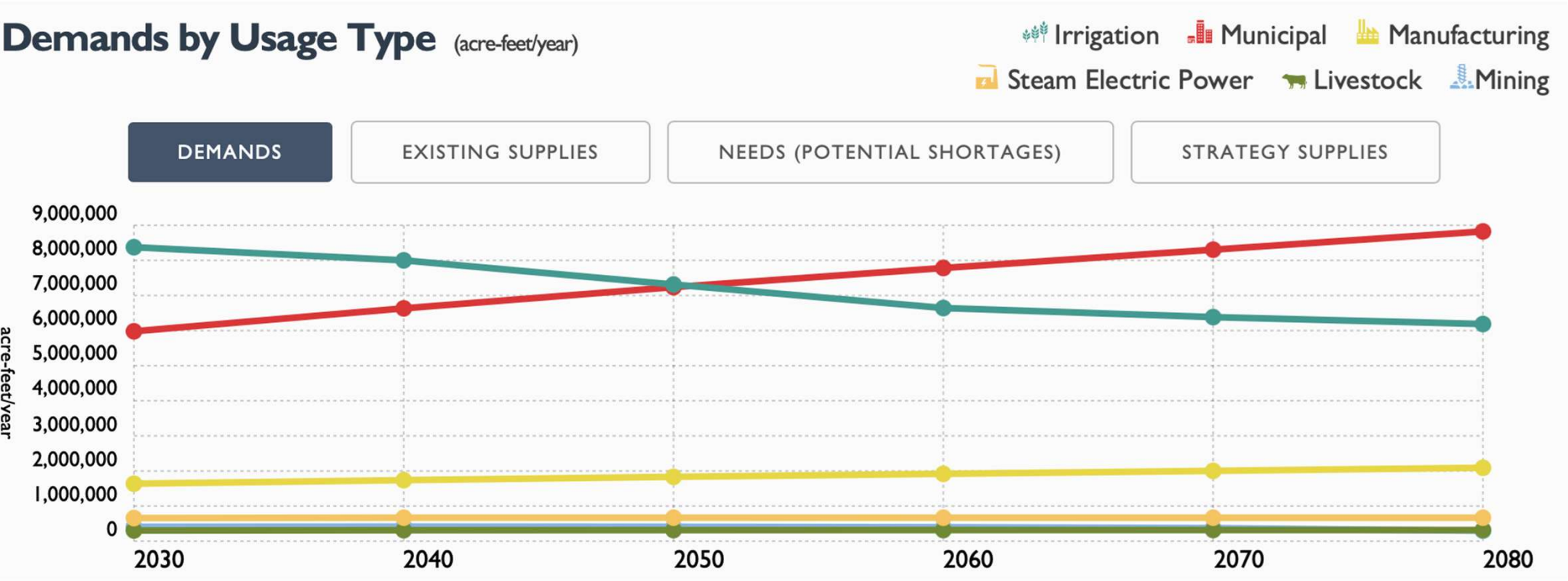
↓10%

Yes, we have a plan!

The 2027 State Water Plan tallies 6,700 strategies to provide an additional 7.55 million acre-feet of water per year by 2080



Statewide Municipal demand is overtaking Irrigation

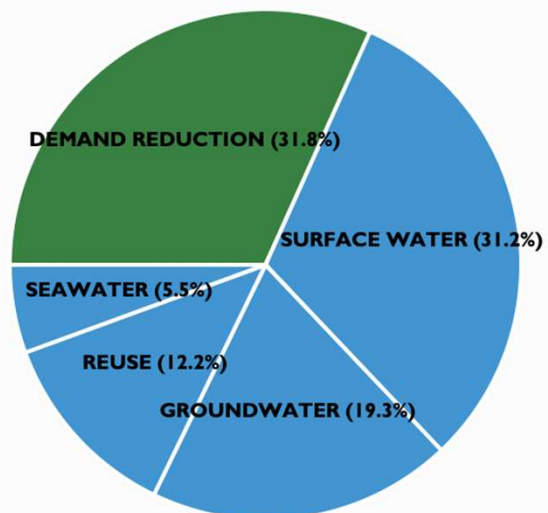


(sooner than previously expected)

Statewide Water Strategies, 2030 vs. 2080

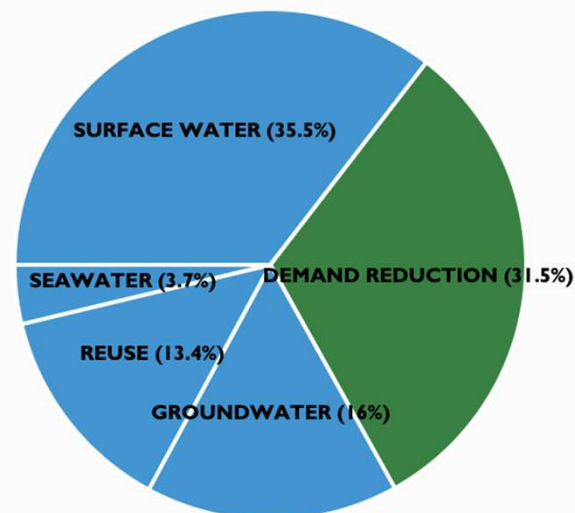
Strategy Supplies Breakdown - 2030 (acre-feet/year)

Share by Water Resource



Strategy Supplies Breakdown - 2080 (acre-feet/year)

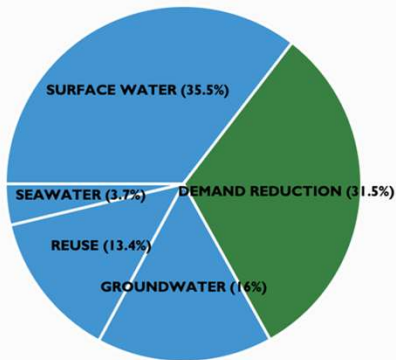
Share by Water Resource



Statewide Strategies in 2080

Strategy Supplies Breakdown - 2080 (acre-feet/year)

Share by Water Resource



Share by Strategy Type

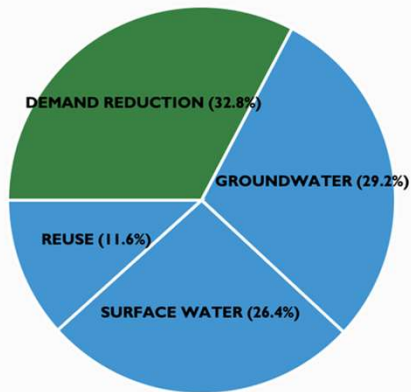
Strategy Type	Amount
<u>OTHER SURFACE WATER</u>	24.9% (1,880,944)
<u>MUNICIPAL CONSERVATION</u>	16.6% (1,252,485)
<u>AGRICULTURAL CONSERVATION</u>	12.1% (916,494)
<u>GROUNDWATER WELLS AND OTHER</u>	9% (679,765)
<u>NEW MAJOR RESERVOIR</u>	9% (676,053)
<u>INDIRECT REUSE</u>	8% (606,456)
<u>SEAWATER DESALINATION</u>	3.7% (277,542)
<u>GROUNDWATER DESALINATION</u>	3.7% (276,887)
<u>OTHER DIRECT REUSE</u>	3.3% (249,853)
<u>AQUIFER STORAGE AND RECOVERY</u>	3.2% (238,233)
<u>DIRECT POTABLE REUSE</u>	1.9% (139,852)
<u>DROUGHT MANAGEMENT</u>	1.8% (132,924)
<u>OTHER STRATEGIES</u>	1.7% (125,158)
<u>INDUSTRIAL CONSERVATION</u>	1% (73,583)
<u>WATER RECYCLING REUSE</u>	0.2% (14,251)

ype/OTHER%20STRATEGIES

Region G in 2080

PLANNING REGION G
Strategy Supplies Breakdown - 2080 (acre-feet/year)

Share by Water Resource



Share by Strategy Type

Strategy Type	Amount
<u>MUNICIPAL CONSERVATION</u>	29.7% (176,708)
<u>OTHER SURFACE WATER</u>	21.1% (125,712)
<u>GROUNDWATER WELLS AND OTHER</u>	19.2% (114,319)
<u>AQUIFER STORAGE AND RECOVERY</u>	8.2% (48,952)
<u>OTHER DIRECT REUSE</u>	5.8% (34,597)
<u>NEW MAJOR RESERVOIR</u>	5.3% (31,700)
<u>DIRECT POTABLE REUSE</u>	4.6% (27,694)
<u>AGRICULTURAL CONSERVATION</u>	2.7% (16,347)
<u>INDIRECT REUSE</u>	1.2% (7,001)
<u>AQUIFER RECHARGE (AR)</u>	0.9% (5,299)
<u>GROUNDWATER DESALINATION</u>	0.9% (5,270)
<u>INDUSTRIAL CONSERVATION</u>	0.4% (2,222)

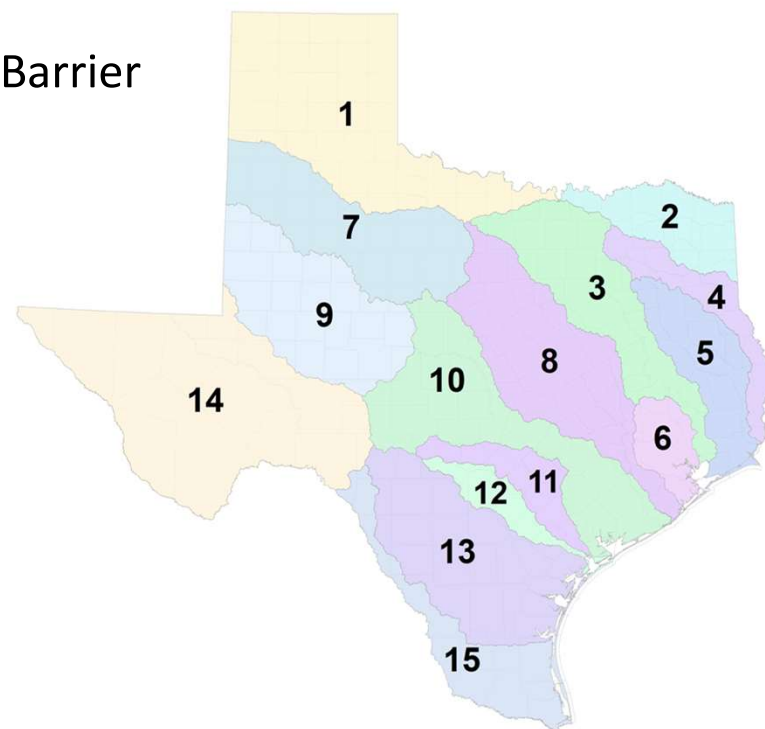
Key Differences w/ TX Overall

- > Groundwater
- > Conservation
- < Surface Water
- < ASR

In fact, we have ANOTHER plan



- ~\$55 Billion (1/2 for Coastal Barrier
- 30 year time-frame
- Strategy Types
 - Evaluations (~3,100)
 - Projects (615)
 - Mgmt strategies (~900)



NEW & EXISTING INFRASTRUCTURE COSTS - STATEWIDE



*These cost figures are updated regularly and will increase



WATER AS A LEGISLATIVE PRIORITY

In February 2025, Governor Greg Abbott called for a “Texas-sized investment in water infrastructure” as an emergency item. The Legislature answered with:

1 \$2.5 billion in total supplemental funding for the Texas Water Development Board (TWDB) in House Bill 500 (including \$1.04B water supply grant opportunity)

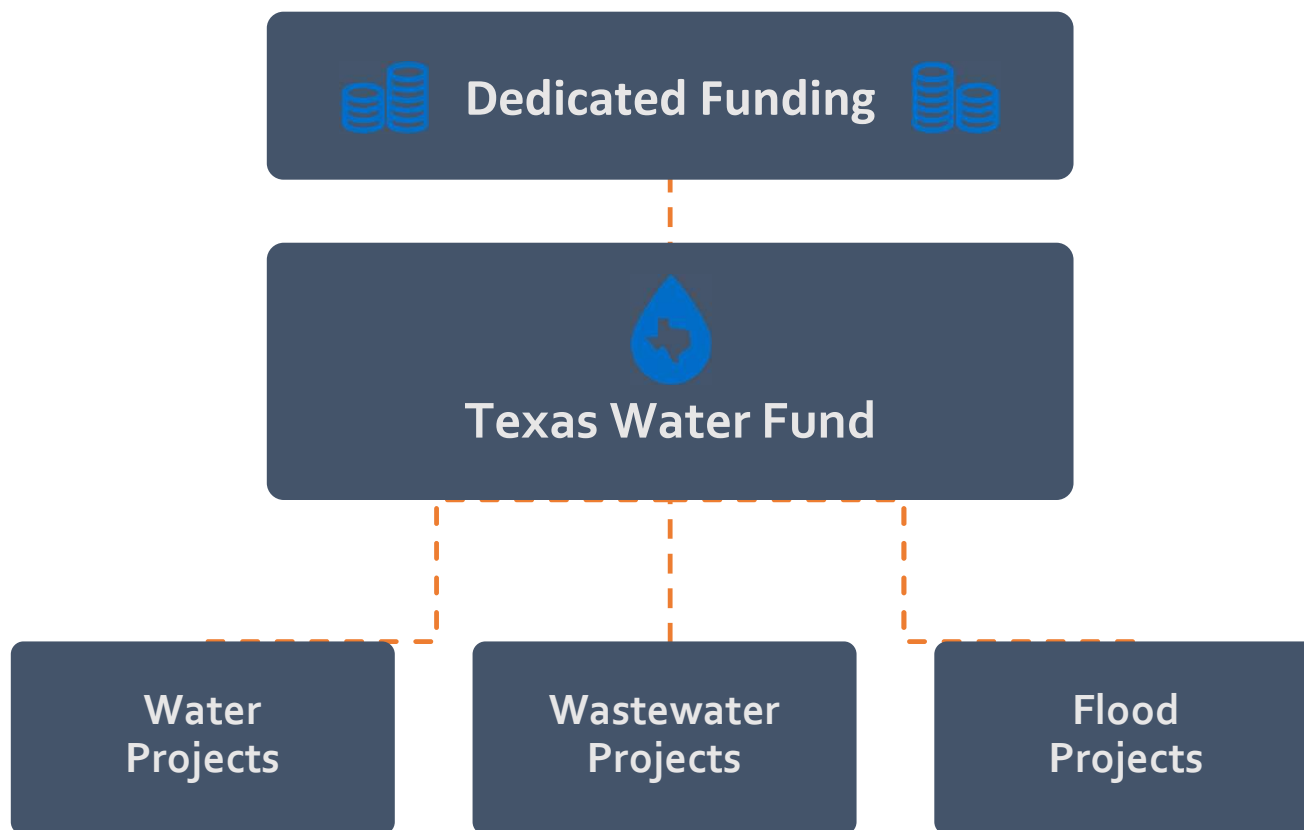
2 Proposition 4 (approved by voters) for dedicated and continuous funding to the Texas Water Fund through Senate Bill 7 and House Joint Resolution 7



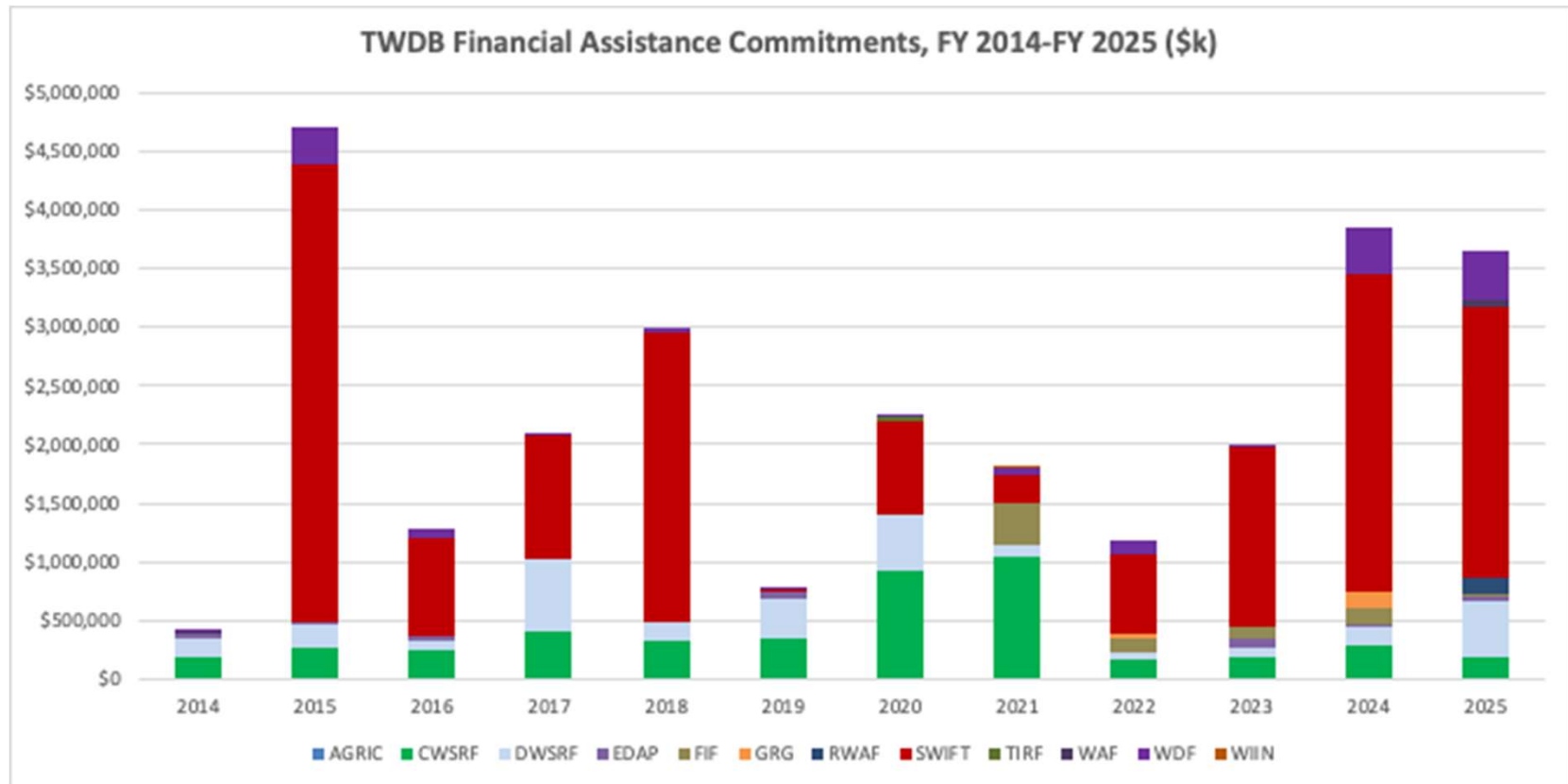
THE CONTEXT

In November 2023, Texas voters approved the creation of the Texas Water Fund and unlocked \$1 billion to help finance water infrastructure.

HOW THE TEXAS WATER FUND WORKS

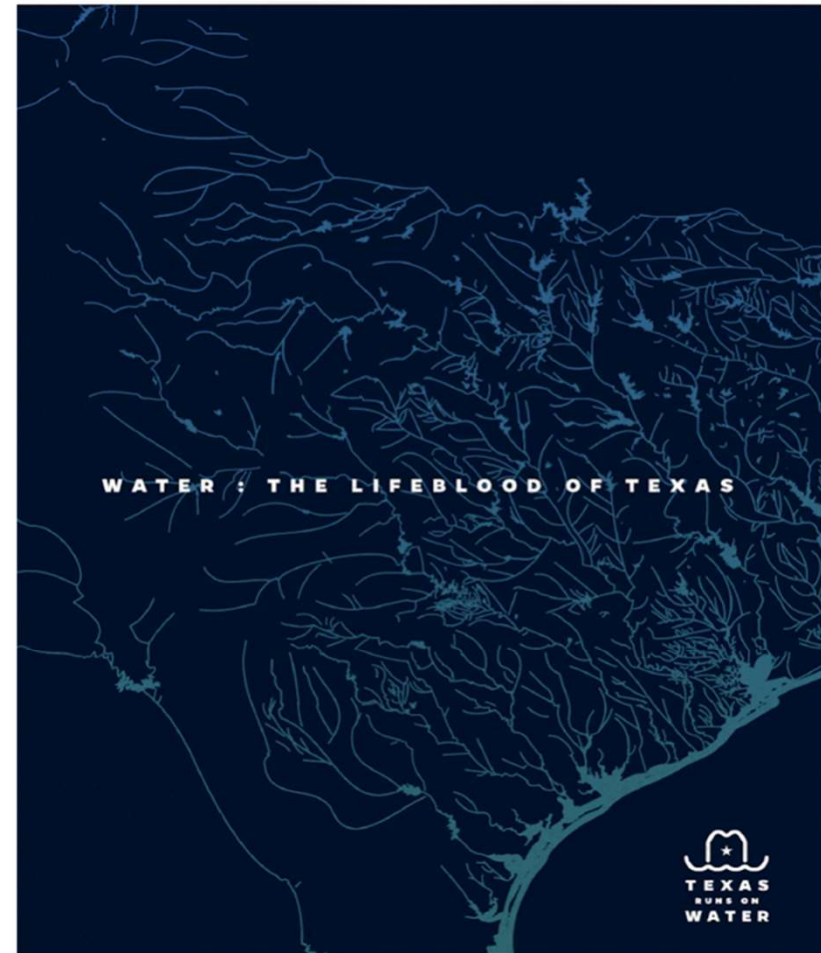


State Financial Assistance Breakdown, 2014-2025



STATE OF TEXAS WATER

- Texas is facing **increasing water risk**
- Built water **infrastructure is aging** and fragile
- **Natural water infrastructure** is fragile
- Water **workforce is aging** and fragile
- **Half of our projected water supply** will have to come from **conservation, efficiency, and reuse**
- We need more **data, funding, & strong leadership**





TEXAS WATER
FOUNDATION

Texas Water Fund September 1, 2025

Texas Water Caucus

TX 89th Legislative Session

New Additions, Changes, Project Types & Examples

