# Texas Water Development Board Infrastructure Project Financing \$\$\$ Show Me The Money \$\$\$





## **Today's Topics**

- What is the Texas Water Development Board (TWDB)?
- What financing tools do we offer?
- How can the TWDB help you complete your project?



## **TWDB** Mission

The **mission** of the Texas Water Development Board is to provide leadership, <u>information</u>, education, and support for <u>planning</u>, <u>financial assistance</u>, and outreach for the conservation and responsible development of water for Texas.

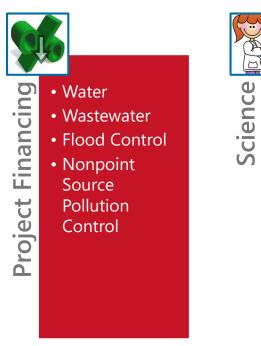




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#### **TWDB Resources**







- Plan • Interface with
- regional water planning groups
- Water Use Surveys



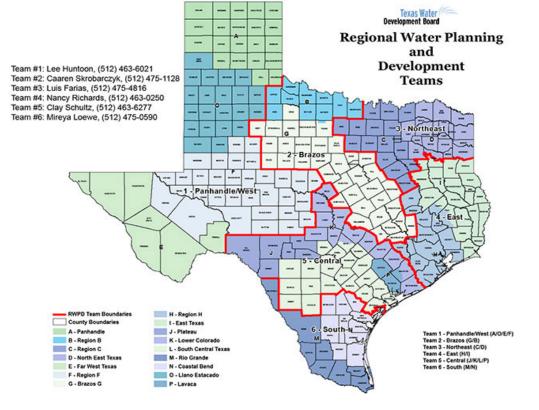
- State's official repository for mapping & GIS data
- Demographics
- Flood data
- Interactive State Water Plan





#### **TWDB Across Texas**

- Austin
- Harlingen
- Houston
- Lubbock
- Mesquite





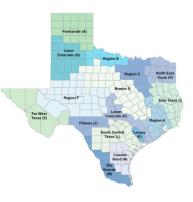




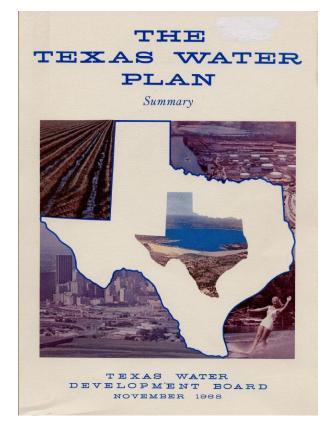
### Water Planning in Texas

Regional Planning Groups analyze water supply needs on a 50-year planning horizon

- Municipalities, agriculture, industry, and power generation are all considered
- Each regional plan lists **recommended water management strategies** and their anticipated costs



Texas Water Development Board



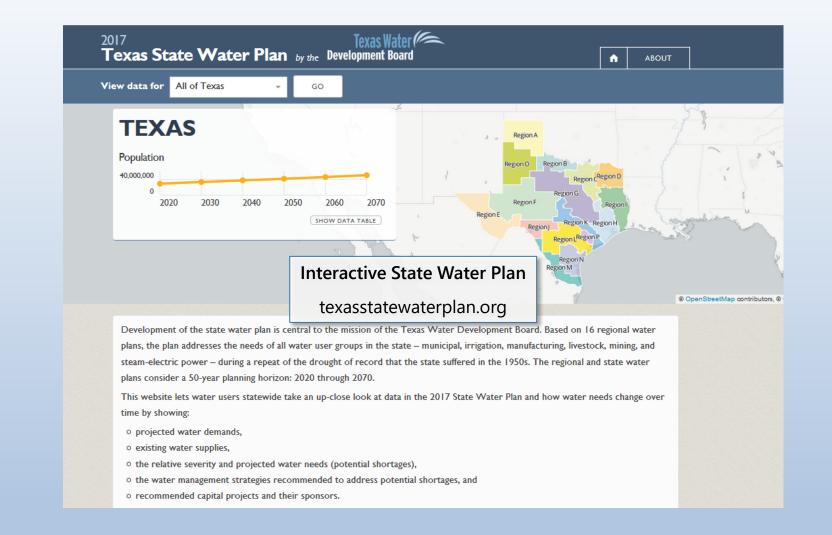


**State Water Plan by Year:** 1961, 1968, 1984, 1990, 1992, 1997,

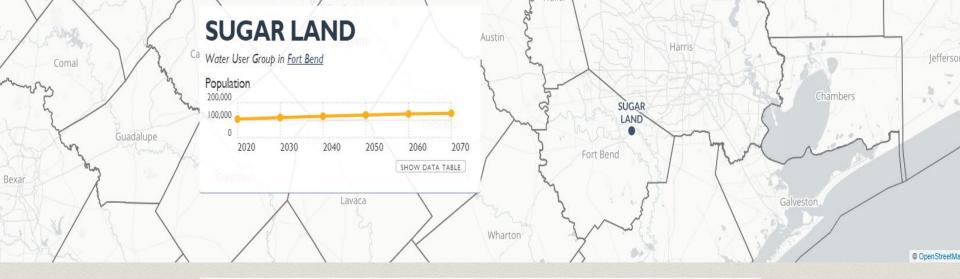
2002, 2007, 2012, **<u>2017</u>** next 2022













WATER USER GROUP - SUGAR LAND



# TEXAS NATURAL RESOURCES INFORMATION SYSTEM

a start			NC AI
GLO Coastal Zone Boundary The official boundary of the Texas Coastal Management Program (CMP).	GLO Navigation Districts Submerged lands granted with mineral reservations by the Texas legislature to Navigation Districts.	GLO State Agency Lands State agency-owned land in Texas.	StratMap Brazos 2017 6in NC\CIR Orthoimagery The 6-inch orthoimagery in Brazos County were flown during the 2017 leaf-off season in early January.
L Direct Download	L Direct Download	. Direct Download	Q Data Search & Download Ø Online Service
Boundary	Boundary	Boundary	Orthoimagery - Regional
FEMA 2014 Rio Grande River	FEMA 2014 Upper Clear Fork	FEMA 2016 DeWitt County Lidar	StratMap SARA 2016 12in
FEMA 2014 Rio Grande River Lidar FEMA Lidar for portions of the Rio Grande River	FEMA 2014 Upper Clear Fork Brazos Lidar FEMA Lidar for the Upper Clear Fork Brazos	FEMA 2016 DeWitt County Lidar FEMA Lidar for DeWitt County	StratMap SARA 2016 12in NC/CIR Orthoimagery The 12-inch orthoimagery covering the San Antonio River, southeastern Refugio County, Aransas County, and Calhour County, TX tweer flower devines the 2016 last off coason in Q Data Search & Download @ Online Service





## TEXAS**FL OD**.org

What to Do? Before, During, and After a Flood

Texas is no stranger to flood. With its diverse geography and extensive, hurricaneprone coastline, the state frequently leads the nation not only in structural damage but also in loss of lives related to flooding events. Given the deadly nature of floods and the rapid timeframe in which they can occur, being ready for the next event is essential. We list the most critical steps to take in each stage of the flood

#### What to Do? Before, After, and During a Flood

- What is a flood?
- Before a Flood
- During a Flood
- After a Flood

Flood Protection Grant Programs

National Flood Insurance Program (NFIP)

Workshop & Training

Community Resources

Flood Mitigation Planning Staff



Texas Water

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#### www.TexMesonet.org



Weather Forecast Historical Weather Data Services About



Texas Emergency Preparedness





2017 Hurricane Season

June 1st to November 30th

**TxDOT Hurricane Info** 



## **Flood Protection Grant Programs**



Flood Protection Planning – Next Cycle 2020 - 2021

• State funding grants to conduct feasibility studies for structural and non-structural solutions to flood hazards in an entire watershed



#### Flood Mitigation Assistance - Next Cycle October 2019

• Federal funding for cost-effective measures to reduce or eliminate long-term flooding risk



## State-Wide Commitments Since 1957







#### A Toolbox for Public Water Utilities

With the creation of the TWDB, the legislature created a set of financing tools to help public utilities achieve their infrastructure goals.



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#### Federal Funds

- Drinking Water State Revolving Fund (DWSRF)
- Clean Water State Revolving Fund (CWSRF)

#### State Funds

- State Water Implementation Fund for Texas (SWIFT)
- Texas Water Development Fund (DFund)
- Economically Distressed Areas Program (EDAP)
- Rural Water Assistance Fund (RWAF)
- State Participation (SP)
- Agricultural Conservation Loans (AG)





## How Can These Tools Work for You?

#### AAA Bond Rating/ Interest Rate Subsidization

#### Funding to accommodate projects of all sizes

Some projects qualify for combined funding through multiple programs

All project phases are eligible for funding





## **Eligible Applicants**

	SWIFT	CWSRF	DWSRF	EDAP	RWAF	SP	DFund
Political Subdivisions	6	6	6	6	6	6	6
Non-profit WSC's	6	٢	6	6	6	6	6
Investor-owned Utilities			6				







## **Eligible Projects**

	SWIFT	CWSRF	DWSRF	EDAP	RWAF	SP	DFund
Water Supply: Current Need	6		6	6	6	6	6
Water Supply: Future Need	6				٢	6	6
Water Treatment	6		6	6	6	6	6
Water Transmission & Distribution	٥		٥	٢	٥		٢
Potable Reuse	6	6	6	6	6	6	6
Wastewater Collection		6		6	6	6	6
Wastewater Treatment		6		6	6	6	6
Nonpoint Source Pollution Control		٩					
Flood Control & Storm Water Management		٥	٥				6





#### Illustrative Lending Rates - February 22, 2019

#### **General Obligation Loan Programs**

Type of Funds	Terms	ESTIMATED RATE Market Rate	TWDB Rate	VARIANCE
Development Fund (Tax Exempt)	30	4.09%	3.91%	<mark>0.17%</mark>
Agricultural Loans (Taxable)	7	3.81%	2.54%	1.27%
Rural Water Assistance Fund (Taxable)	40	N/A	4.42%	N/A

#### State Revolving Funds - for projects in the SFY 2019 Intended Use Plans

Type of Funds	Terms	ESTIMATED RATE Market Rate	TWDB Rate	VARIANCE
Clean Water SRF Non-Equivalency (AA)	30	3.02%	1.72%	<mark>1.30%</mark>
Clean Water SRF Non-Equivalency (BAA)	30	3.67%	2.02%	<mark>1.30%</mark>
Clean Water SRF Equivalency (AA)	30	3.02%	1.37%	<mark>1.65%</mark>
Clean Water SRF Equivalency (BAA)	30	3.67%	2.02%	<mark>1.65%</mark>
Drinking Water SRF (AA)	30	3.02%	1.67%	<mark>1.35%</mark>
Drinking Water SRF (BAA)	30	3.67%	2.32%	<mark>1.35%</mark>

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#### Federal Funds (SRF) Programs

- Funded by the US Environmental Protection Agency (EPA)
- Interest rate subsidization
- Partial <u>Principal Loan Forgiveness</u> **PLF** available for certain project types
- Multi-year Commitment option





## **Two Paths for State Revolving Fund**







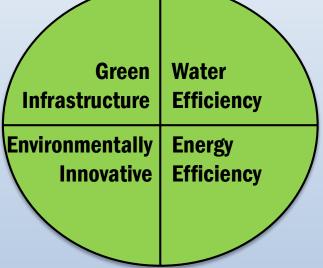
## Disadvantaged Community Eligibility

- 75% or less of state-wide Annual Median Household Income (AMHI)
  - State's AMHI is \$54,727 (per 2016 ACS data)
  - \$54,727 x .75 = **\$41,045** eligibility threshold
- Also takes into consideration average household size, utility rates, loan repayment, unemployment rates and population declines
- Documented using Census information or a household survey
- 30%, 50%, or 70% <u>Principal Loan Forgiveness</u>



#### **Green Project Principal Loan Forgiveness**

- Green initiatives If at least 30% of project costs green, eligible for up to 15% PLF on green dollars
- Entire project or discrete components



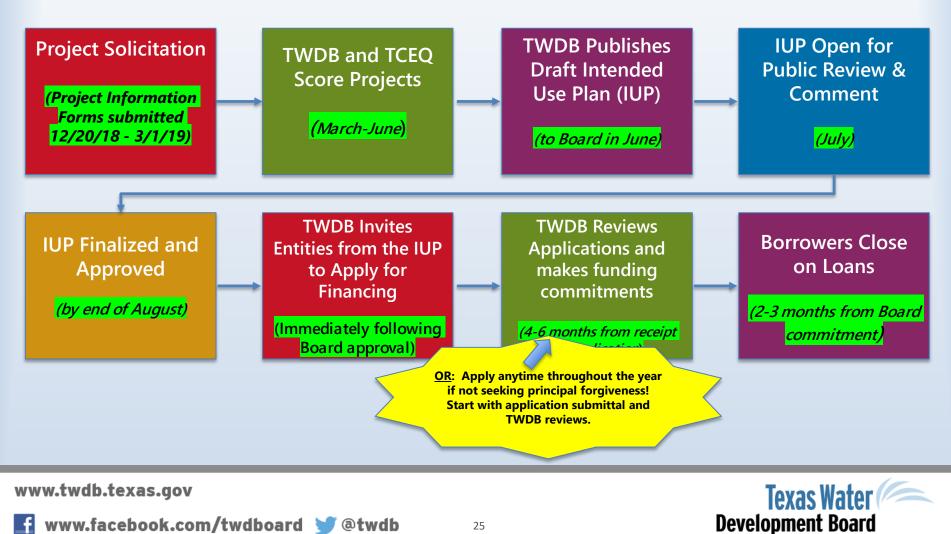
#### **GREEN INFRASTRUCTURE**

- permeable pavement
- bioretention
- trees/urban forestry
- green roofs
- constructed wetlands
- stormwater reuse piping





## **SRF Annual Funding Cycle**



## **Drinking Water State Revolving Fund**



Offers financing 125 basis points below the applicant's market interest rate

Year	Capacity	PLF
SFY 2018	\$250M	\$21M
SFY 2019	\$250M	\$30M



Partial Principal Loan Forgiveness available for Disadvantaged Communities, Very Small Systems, Urgent Need projects, and projects with Green components

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**Development Board** 



# Sample DWSRF Project

Harris County MUD 50 Water System Improvements

**HCMUD 50** 

- Treatment plant improvements at 2 facilities
- Replace distribution lines
- \$3,504,409 total DWSRF loan
- \$1,034,409 Principal Forgiveness
- \$421,851 Interest Savings
- Total Cost Savings: **\$1,456,260**



#### **Clean Water State Revolving Fund**



Offers financing up to 155 basis points below the applicant's market interest rate



Year	Capacity	PLF
SFY 2018	\$525M	\$23M
SFY 2019	\$525M	\$28.6M



Partial Principal Loan Forgiveness available for Disadvantaged Communities and projects with Green components





# Sample CWSRF Project

#### Houston Collection System Rehabilitation

 Ongoing effort to renew at least 600,000 linear feet of collection system each year

#### Houston

- Pipe sizes range from 6" to 72"
- Project will reduce sanitary sewer overflows
- Inflow and infiltration are addressed, resulting in optimized performance
- \$65,750,000 total CWSRF loan
- Cost savings: **\$19,499,242**



## Primary SRF Program Requirements

- Disadvantaged Business Enterprise (DBE) Procurement
- National Environmental Policy Act (NEPA) Environmental Review
- Davis-Bacon prevailing wage rates
- American Iron & Steel

#### Technical assistance available!







#### **Texas Funded Programs**

- Funded with bond proceeds (AAA bond rating)
- Loans based on TWDB's cost of funds
- Grants available (EDAP)
- Subsidization and deferral available (SWIFT)



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Texas Water

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#### **Texas Water Development Fund (DFund)**



#### Versatile funding for water and wastewater



TWDB's oldest financial assistance program



Powered by agency's AAA bond rating





# **Sample DFund Project**



Fort Bend County WCID 8

- Water Well & Generator
- Goal to provide second water source and emergency power service
- \$4,900,000 total DFund loan
- Cost savings: **\$70,539**

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**State Water Implementation Fund for Texas**  Funding Commitments 2015 – 2018 \$8.1 Billion \$825 Million in interest savings

**Eligible Projects** 

- Recommended Water Management Strategies in the state water plan
- Includes a wide range of water supply and conservation projects

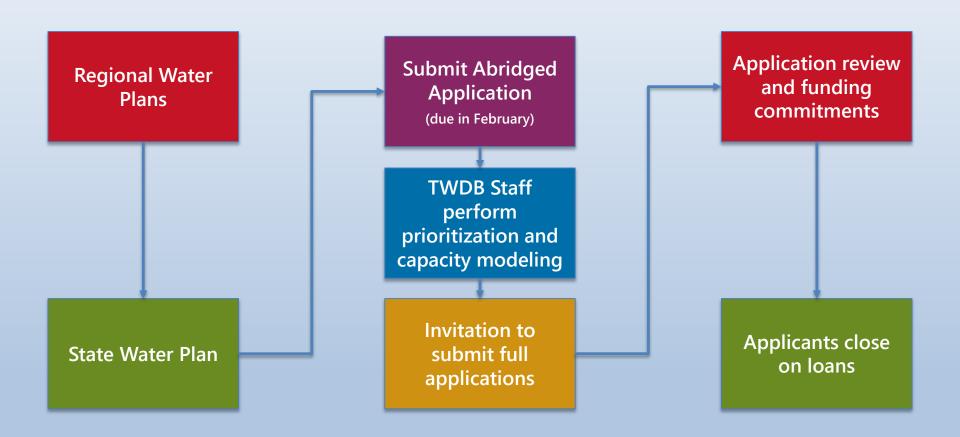
#### **Financing Options**

- Low-interest loans
- Deferred loans
- Board Participation
- Multi-year commitments





## **SWIFT Funding Cycle**





# Sample SWIFT Project

#### Austin Direct Reuse

- Supply needs identified in regional planning will be met by increased conservation and expanded use of reclaimed water
- Rehab & expansion of filtration systems, new storage tank & pump stations, and approx. 74,000 feet of transmission mains
- \$86,900,000 SWIFT *multi-year* commitment
- Cost savings: **\$2,035,348!** (on \$20 million closed in 2016)

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#### SWIFT Commitments -Luce Bayou Interbasin Transfer & NEWPP Expansion



- Address subsidence convert from groundwater to surface water
- Meet water demands

	Total Committed
Houston	449,280,000
North Harris Co RWA	2,075,995,000
Central Harris Co RWA	71,105,000
West Harris Co RWA	957,140,000
North Fort Bend WA	895,325,000
Coastal WA	300,000,000
Total	4,748,845,000



## **Pre-Application Meetings**









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### Need Info? Check out our website!



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