Texas Water Development Board Infrastructure Project Financing







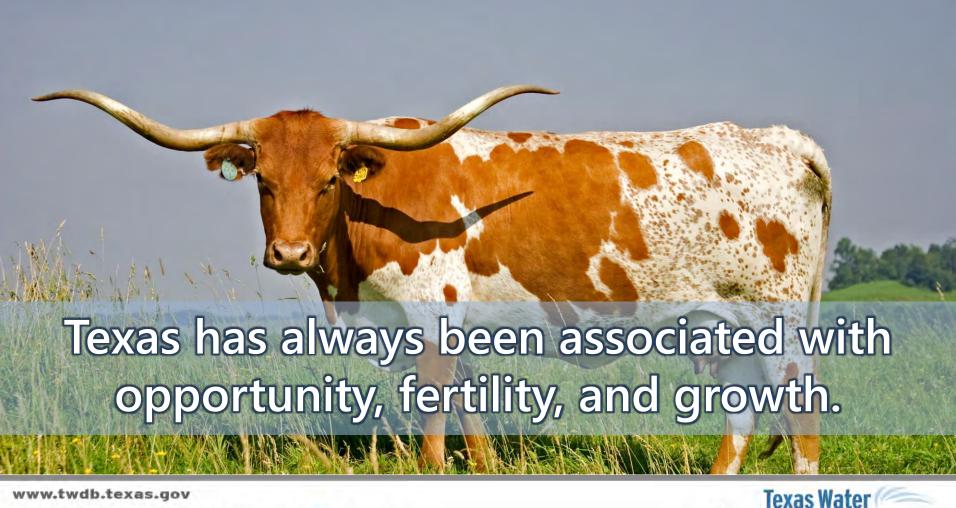
Topics

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















Our water resources are at the heart of that reputation... A TO STATE OF THE www.twdb.texas.gov **Texas Water**





TWDB History is Texas History ...and sometimes they are in short supply.



TWDB History is Texas History

1822

 Central Texas colonists led by Stephen F. Austin lose their initial food crops to drought

1884

· Settlers in West Texas return to the East after crops fail

1956

• Drought of Record: severe statewide drought

1957

 Texas Water Development Board created; statewide water planning begins

2011

Severe statewide drought returns





TWDB History is Texas History

1869

• Bastrop evacuates as flood waters reach 46 feet

1925

 Flooding destroys 13 bridges and drowns 51 people in San Antonio

1935

 Downtown Houston inundated by flooding of the **Buffalo Bayou**

1949

 Fort Worth flooded by the Trinity River, causing \$10M in damage and killing 10 people

1952

 Flooding in Central Texas kills 5 and destroys 17 homes

2015

 Blanco river rises 36ft in a few hours, washing away entire residential blocks in Wimberley







The legislature has entrusted the TWDB with a set of financing tools to help public utilities achieve their infrastructure goals.





Each tool is unique, and some are designed for special purposes















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Each tool is unique, and some are designed for special purposes





Projects serving **Economically Distressed** Areas

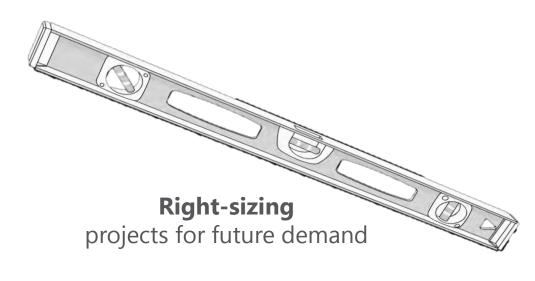






Each tool is unique, and some are designed for special purposes











Agricultural Water Conservation Loans/Grants (AG)

Clean Water State Revolving Fund (CWSRF)



Drinking Water State Revolving Fund (DWSRF)



Economically Distressed Areas Program (EDAP)



Rural Water Assistance Fund (RWAF)

State Participation Program (SP)



State Water Implementation Fund for Texas (SWIFT)

Texas Water Development Fund (DFund)





Development Board

How Can These Tools Work for You?

AAA Bond Rating

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
Non-profit WSC's		6	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							
Water Treatment							
Water Transmission & Distribution	6			6	6		6
Potable Reuse							
Wastewater Collection							
Wastewater Treatment							
Nonpoint Source Pollution Control		6					
Flood Control/ Stormwater Management			6				









State Revolving Fund (SRF) Programs

- Partially funded by the US Environmental Protection Agency (EPA)
- Subsidized financing
- Partial principal forgiveness available for certain project types
- Multi-year Commitment option



Drinking Water State Revolving Fund (DWSRF)



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



Repayment terms up to 30 years



Partial principal forgiveness available for Disadvantaged Communities, Very Small Systems, Urgent Need projects, and projects with Green components





Disadvantaged Community Eligibility

- 75% or less of state-wide Annual Median Household Income (AMHI)
 - State's AMHI is \$53,207 (per 2015 ACS data)
 - $-\$53,207 \times .75 = \$39,905$ eligibility threshold

 Documented using Census information or a household survey



Euless: Automated Metering & Leak Detection

- Addresses increased demand on existing water infrastructure
- Helps defer the need for additional water supply and treatment facilities
- Replacement of about 14,000 meters
- Qualified for loan forgiveness (Green project)
- \$5.5 million total DWSRF commitment



Development Board



Euless: Automated Metering & Leak Detection

- Addresses Cost savings: \$1,625,882
- Replacement of about 14,000 meters
- Qualified for loan forgiveness (Green project)
- \$5.5 million total DWSRF commitment







Clean Water State Revolving Fund (CWSRF)



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



Repayment terms up to 30 years



Partial principal forgiveness available for Disadvantaged Communities and projects with Green components



Sulphur Springs: WWTP Upgrade

- Upgrades required in order to maintain treatment standards
- Replacing aging infrastructure while improving treatment capacity
- New clarifiers, pump station, blower facility, splitter structure, and SCADA system
- \$18,200,000 total financing through CWSRF









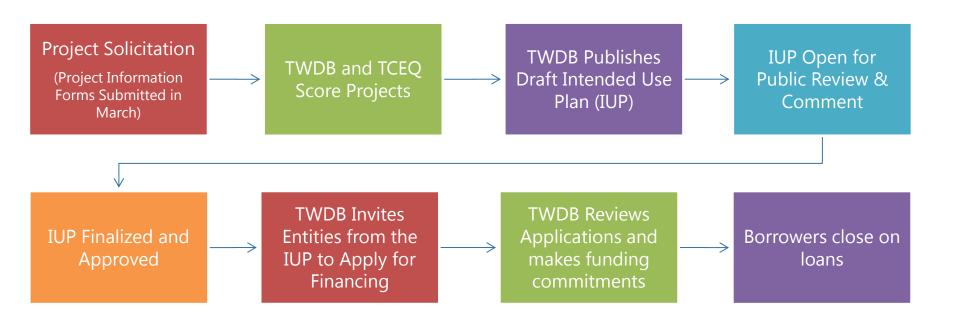


Sulphur Springs: WWTP Upgrade

- Upgradec required in Cost savings: \$2,268,503
- while im treatment capacity
- New clarifiers, pump station, blower facility, splitter structure, and SCADA system
- \$18,200,000 total financing through CWSRF



SRF Annual Funding Cycle





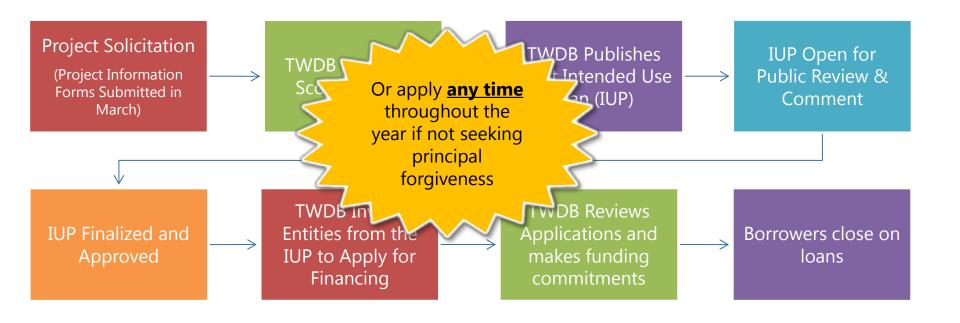


Texas Water

Development Board



SRF Annual Funding Cycle











Primary SRF Program Requirements

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





State 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)











State Water Implementation

Fund for Texas

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







New for 2017

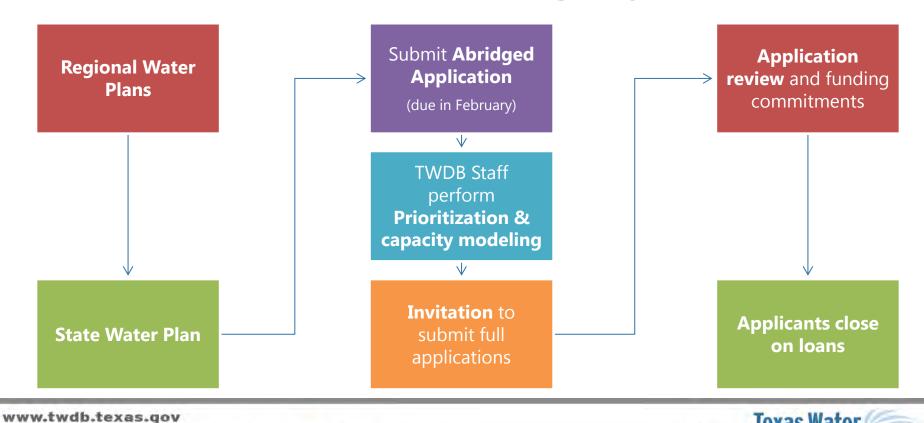
 Low-interest loan interest rate subsidies specified for taxable financing and Rural entities

	Low-Interes	t Loans	Subsidized Rural/Agriculture			
Term	Tax-Exempt	Taxable	Tax-Exempt	Taxable		
20 Years	35%	28%	50%	40%		
21-25 Years	25%	20%	33.5%	27%		
26-30 Years	20%	16%	26.15%	21.5%		

• Rural: communities with population 10,000 or fewer, located outside extraterritorial jurisdiction of any city with population of 500,000 or greater.



SWIFT Funding Cycle







Upper Trinity Regional Water District: Lake Ralph Hall

- Planning, design, and acquisition phases
- Expected firm yield of 30 mgd for municipal supply
- Earthen dam, intake/pump station, bridge, road relocation, pipeline, etc.
- \$44,680,000 SWIFT commitment
- Combination of Deferred Loan and Board Participation



Upper Trinity Regional Water District: Lake Ralph Hall

- Planning, design, and acquisition phases

- ...ake, Jump station, bridge, • Eartnen a road relocation, pipeline, etc.
- \$44,680,000 SWIFT commitment
- Combination of Deferred Loan and Board Participation









APPLICATION FOR FINANCIAL ASSISTANCE

FOR WATER AND WASTEWATER INFRASTRUCTURE PROJECTS



edra such as CD or flash drive using MS Word, Excel and/or Adobe Acrobat.

Please submit your application to:

Texas Water Development Board Water Supply and Infrastructure-Regional Water Planning and Development 1700 N. Congress Avenue, 5th Floor

Austin, Texas 78711-3231 (78701 for courier deliveries)

A complete application consists of all of the applicable information and forms requested in this document. When preparing this application please review the Application and all Guidance and Forms, listed at the end.

For more information, please contact your Regional Project Implementation Team at:

http://www.twdb.texas.gov/financial/programs/swift/regional_project_teams.asp

Thankvou.

TWDB Use Only Name of Applicant: Date application received: Date administratively complete:

SWIFT is the only state funded program with an application deadline. Applications for the other state programs are accepted at any time.









EDAP assists projects in areas where:

- Income is not greater than 75% of statewide median
- Infrastructure is substandard or doesn't exist
- Model Subdivision Rules (MSR's) are in place to prevent further substandard development







EDAP offers **GRANTS**

- Grant/loan ratio depends on project phase & affordability calculation
- Nuisance determination required for > 50% grant
- Popular program...current bonding capacity has been met
- Stay tuned for announcements regarding capacity for next biennium

East Aldine Management District

- First-time water & wastewater service to two areas
- Documented > 50% failure rate on private septic systems
- Small lot size means shallow water wells are less than 50 ft. from septic drainage
- TDSHS Nuisance Determination
- \$10,912,331 total EDAP assistance

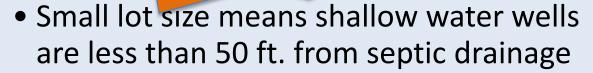


East Aldine District



East Aldine Management District

- First-time water & wastewater see to two are



- TDSHS Nuisance Determination
- \$10,912,331 total EDAP assistance









Ag Conservation Loans

- Projects that improve irrigation efficiency
- Purchase & installation of devices to measure use of irrigation water
- Technical assistance programs
- Research, demonstration, technology transfer, or educational programs
- ...and more





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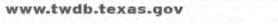


Panhandle GWCD

Panhandle GWCD

- TWDB financing allows the District to make loans to individual farmers for more efficient irrigation systems.
- \$2,000,000 loan





Panhandle GWCD

- Panhandle GWCD
- TMD Cost Savings: \$206,475

 main armers for more efficient irrigation systems.
- \$2,000,000 loan

Ag Conservation Grants



- Water use monitoring equipment, demonstration & technology transfer, irrigation efficiency studies
- Cameron.Turner@twdb.texas.gov

Flood Protection Grant Programs



Flood Protection Planning

 Grants to conduct feasibility studies for structural and non-structural solutions to flood hazards in an entire watershed



Flood Mitigation Assistance

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



Severe Repetitive Loss

• Federal funding to assist implementation of mitigation measures to reduce or eliminate long-term risk







Primary State Program Requirements

- Water Conservation and Drought Contingency plans
- Environmental Review
- US Iron & Steel (except SWIFT)
- Water loss threshold requirements





How to Get Started

CONTACT US!

Team 1 Lee Huntoon Panhandle/West (512) 463-6021 Regions: A/O/E/F

Team 2 Caaren Skrobarczyk Brazos (512) 475-1128

Team 3 Luis Farias Northeast (512) 475-4816 Regions: C/D

Team 4 **Nancy Richards** Fast (512) 463-0250

Regions: H/I

Regions: G/B

Team 5 **Dain Larsen** Central (512) 463-1618

Regions: J/K/L/P

Team 6 Mireya Loewe South (512) 475-0590

Regions: M/N











Pre-Application Meetings







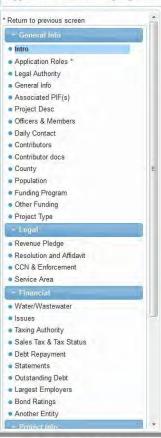






Texas Water **Development Board**

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Texas Water Development Board Online Application

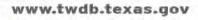
contact the TWDB Team Manager for your area. http://www.twdb.texas.gov/contact/doc/RWPD. Teams.pdf.

Welcome to the Texas Water Development Board's Online Application (OLA). OLA allows entities to apply for financial assistance from any of the TWDB's funding programs.

Applications for State Revolving Funds and the SWIFT must first receive an invitation to apply for funds from those programs. Applications for other funding programs may be submitted at any time.

Prior to submitting an application for financial assistance, a Pre-Application Meeting with TWDB staff is required. If you have not had a Pre-Application Meeting or would like more information about the application

Online Loan Application System http://ola.twdb.texas.gov











Other TWDB Resources



Project Financing

- Water
- Wastewater
- Flood Control
- Nonpoint Source **Pollution Control**



Science

- Groundwater availability
- Environmental flows
- Lake surveys
- Conservation
- Innovative **Technologies**
- TexMesonet (Weather Data)



Planning

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



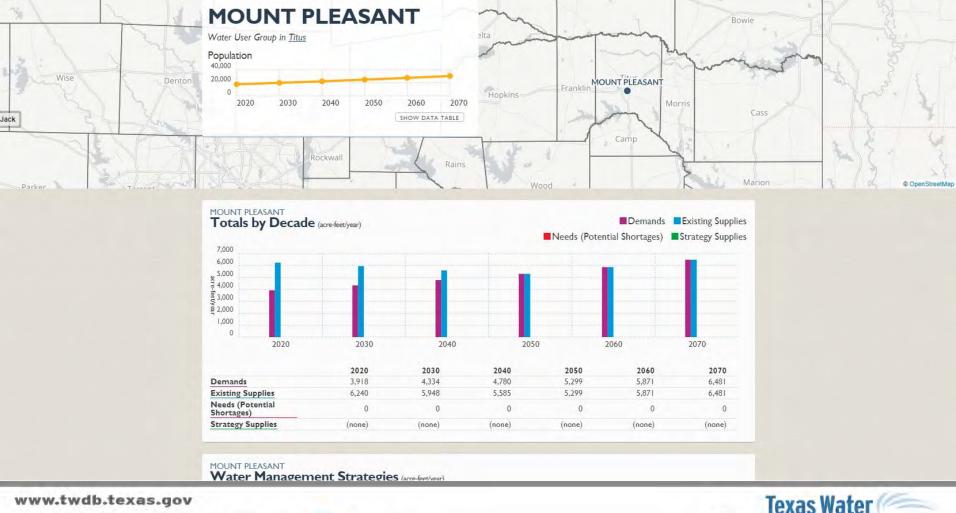
Data

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

























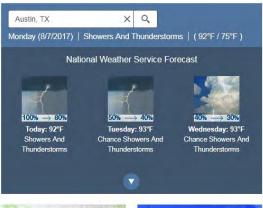




Weather Forecast Historical Weather Data Services About



2017 Hurricane Season June 1st to November 30th Texas Emergency Preparedness **TxDOT Hurricane Info**

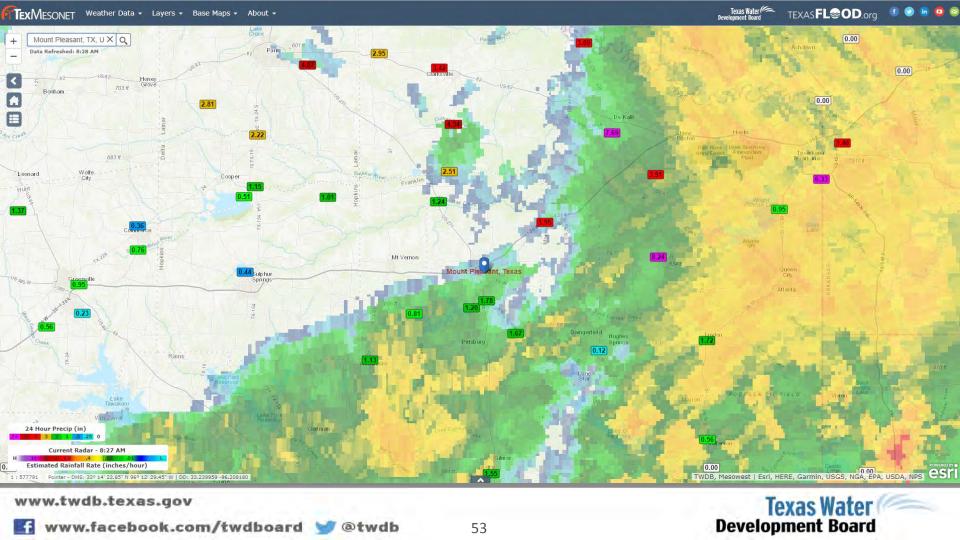




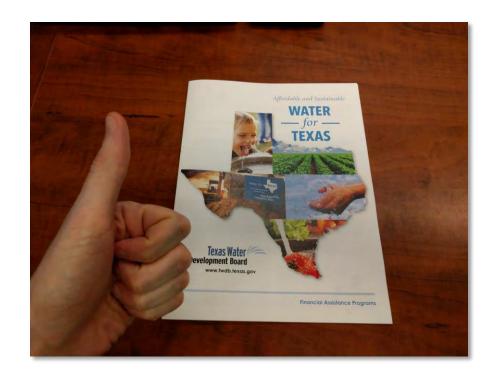








Financial Assistance Programs Handbook





www.twdb.texas.gov







Team 3: Northeast Texas

Luis Farias | Manager

Joe Koen | Senior Review Engineer

John Squires | Engineer

David Dera | Engineer

Michael Brooks | Project Manager

Dean Crenshaw | Project Manager

Ben Munguia | Financial Analyst

Kathy Calnan | Environmental Review

Annette Mass | Attorney

Connie Townsend | Planner

Ron Ellis | Planner

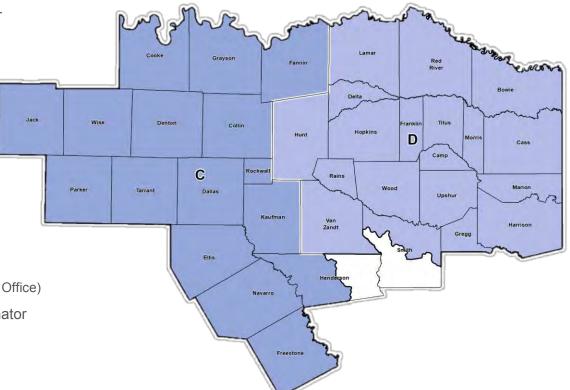
Raphael Castro | Engineer (Mesquite Field Office)

Tom Entsminger | State Programs Coordinator

Matthew Schmidt | DWSRF Coordinator

Mark Evans | CWSRF Coordinator

Rosario Flores | DBE Coordinator



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Thank You!

- Questions?
- Evaluations/Follow up requests