BOARD OF DIRECTORS MEETING

March 21, 2023



PLEDGE OF ALLEGIANCE

I pledge allegiance to the flag of the United States of America, and to the republic for which it stands, one nation under God, indivisible, with liberty and justice for all.

PLEDGE OF ALLEGIANCE TO THE TEXAS FLAG

Honor the Texas flag; I pledge allegiance to thee, Texas, one state under God, one and indivisible.



2

Public Comment







3

Consider Approval of the Minutes from the Meeting Held on February 21, 2023







Consider Approval of Consent Agenda







5

Consider Approval of Agreement with Hilltop Securities, Inc. for Municipal Advisory Services

Sandy Newby, Chief Financial Officer







Consider Approval of TRWD Strategic Plan

Dan Buhman, General Manager





7

Consider Approval of Contract with Tarrant County Elections Administrator's Office to Conduct an Election

Stephen Tatum, General Counsel





8

Consider Approval of Revisions and Additions to Board Governance and Purchasing Policies

Stephen Tatum, General Counsel





Consider Approval of Contract Amendment with Brenntag Southwest, Inc. to Furnish and Deliver Liquid Chlorine to Richland-Chambers **Lake Pump Station**

Jason Gehrig, Infrastructure Engineering Director





10

Consider Approval of Contract Renewal and Extension with Mark L. Mazzanti for **Consulting Services**

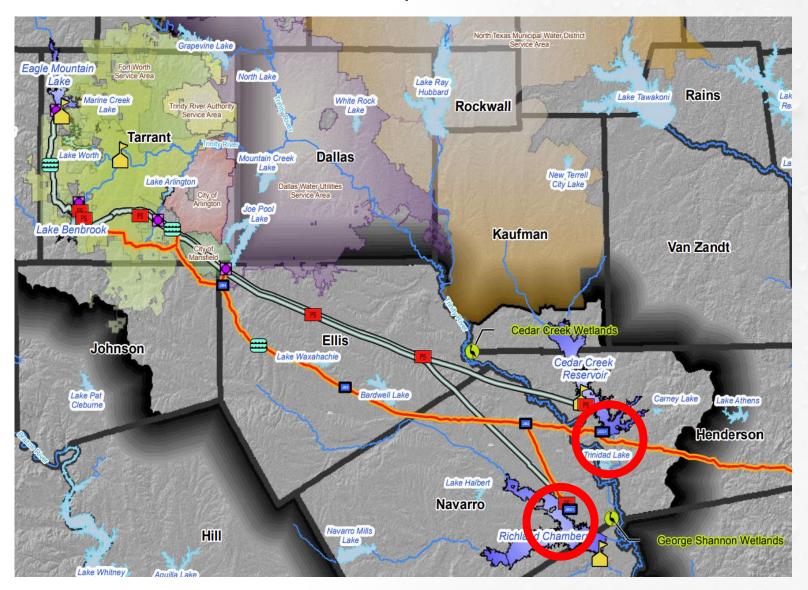
Dan Buhman, General Manager





Chemicals Purchase

Richland-Chambers Lake PS (Chlorine Contract Amendment)





Chemicals Contract Amendment - Chlorine

Chlorine combines with aqueous ammonia to form chloramines for Richland-Chambers Lake PS, used for biofilm and zebra mussel control









Staff Update

Recognize 50 Years of Service

Darrell Beason, Chief Operations Officer



Staff Update

Recreation Update

Darrell Beason, Chief Operations Officer



Completed Trail Improvements





Trail ImprovementsWhite Settlement Rd





Trailhead at Marine Creek



Burton Hill Neighborhood Trailhead: Oak Forest Drive



'RWD and Streams & Valleys would like some feedback on our use of the Trinity Trails.

hey are considering some upgrades to the trailhead on)ak Forest and Dennis.

lick on this link to access the survey! Please share with eighbors that may not be... See more





Q3 What is your favorite part about the trails?

running trees city go access location Clean nature area OVE Easy access

nature neighborhood Walking see nature area beautiful trails people safe exercise able dog

Q4 What needs does your neighborhood have for better access to the trails?

shade Oak Forest access Nothing area trailhead Parking dogs trail
trees good Paved think





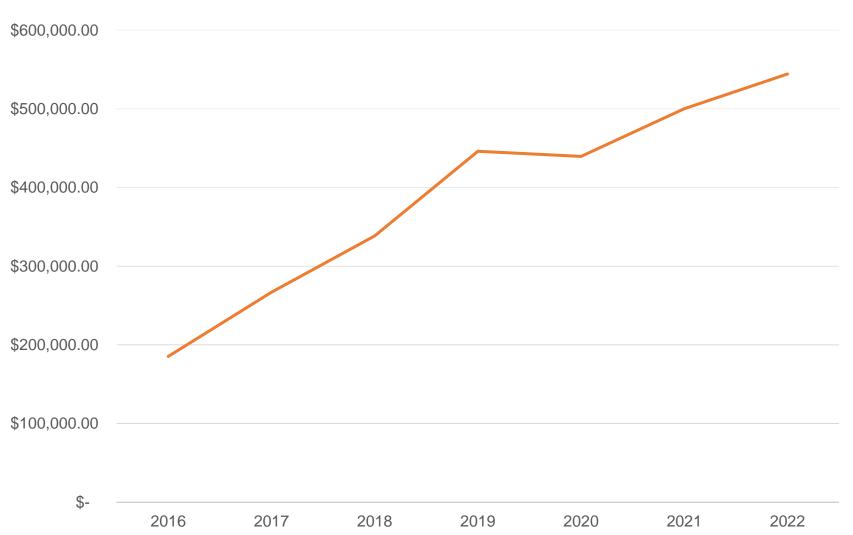


2022 In Review

- 23,400 Facebook **Followers**
- 1200+ Multiplatform **Reviews**
- 114,000+ Attendance



TWIN POINTS PARK TOTAL REVENUE TREND









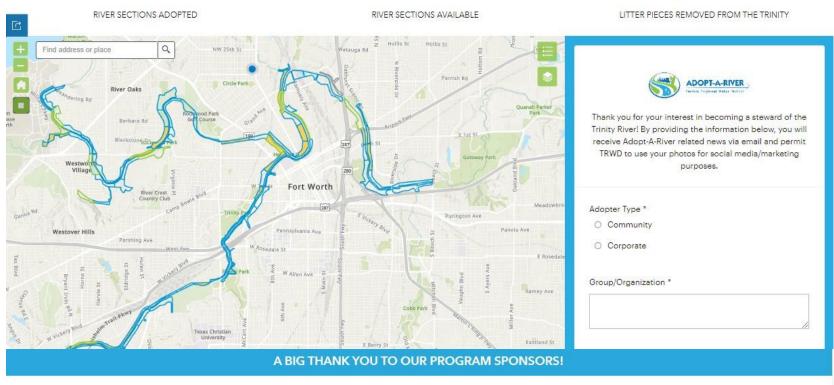






adoptariver.com

9,327

























































7,036 LITTER PIECES

RECORDED IN 2022 (JAN 1 - DEC 20)



Trout Stocking the Trinity River





Staff Update

Communication Assets for Panther Island and Central City Flood Control Project Update

Natasha Hill, Director of Communications and Outreach



Staff Update

Capital Improvement Plan Update

Rachel Ickert, Chief Water Resources Officer

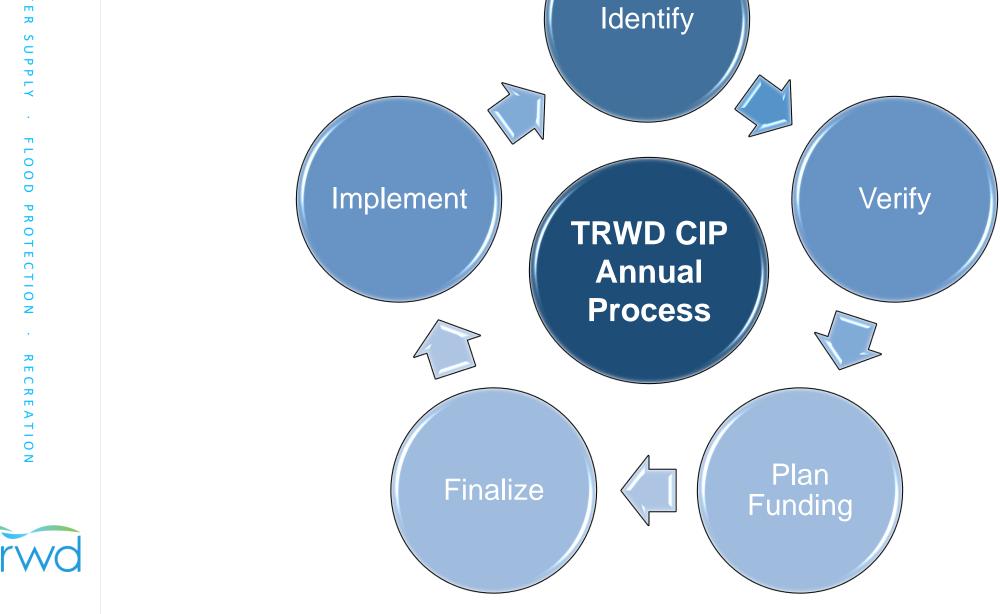




Drivers and Project Categories

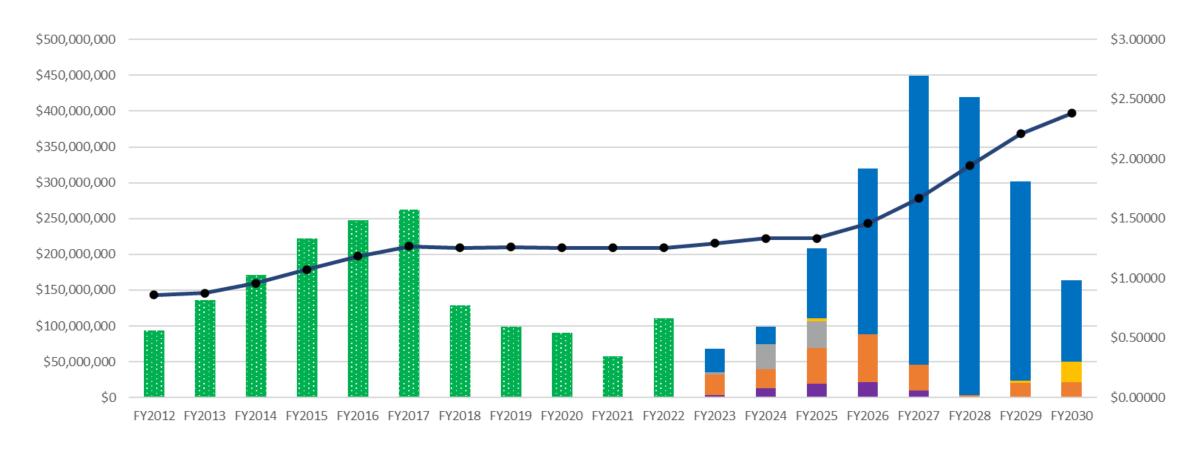
- Employee & Public Safety
- Aging Infrastructure, Increased Capacity / Operational Flexibility
- Emergency Preparedness and Resilience
- Growth Water Supply and Transmission

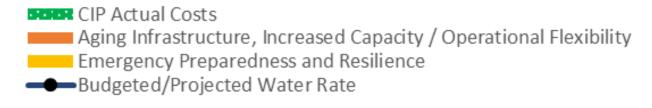






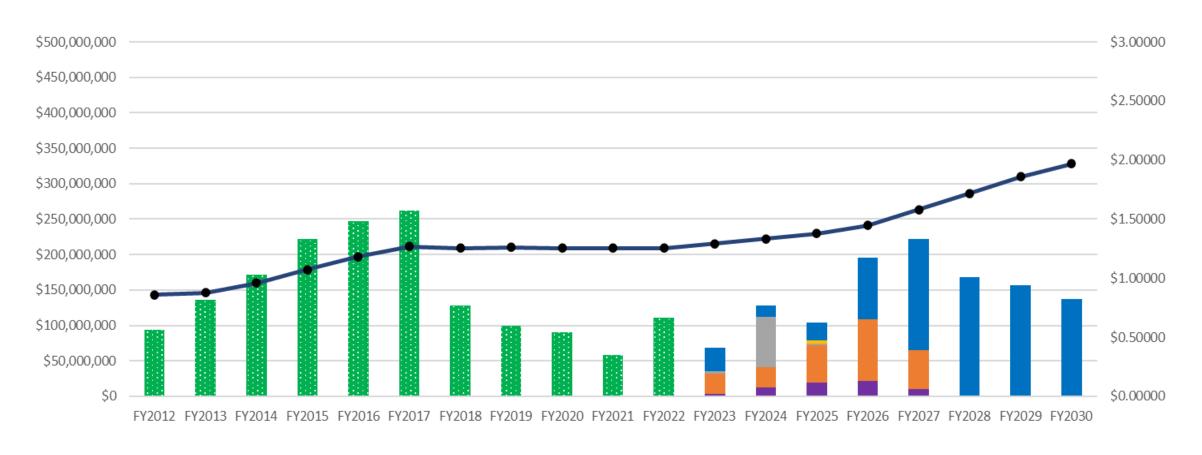
Capital Improvements by Year Aggressive Schedule

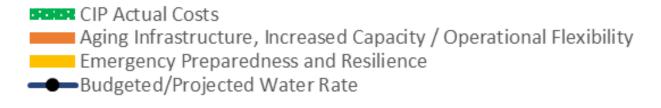






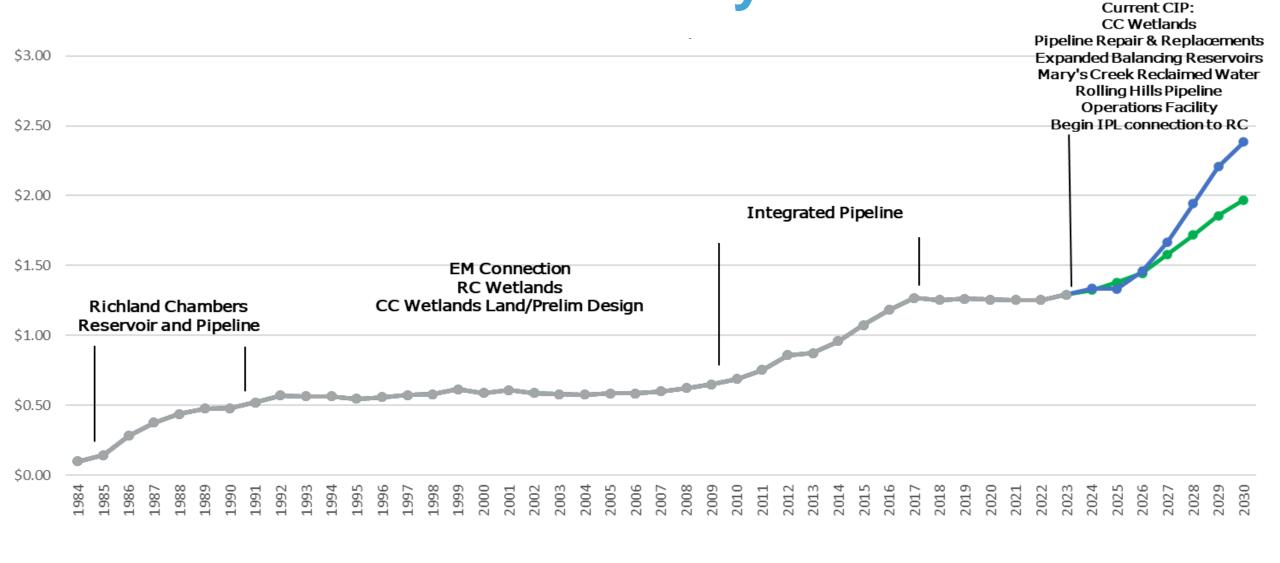
Capital Improvements by Year Adopted CIP







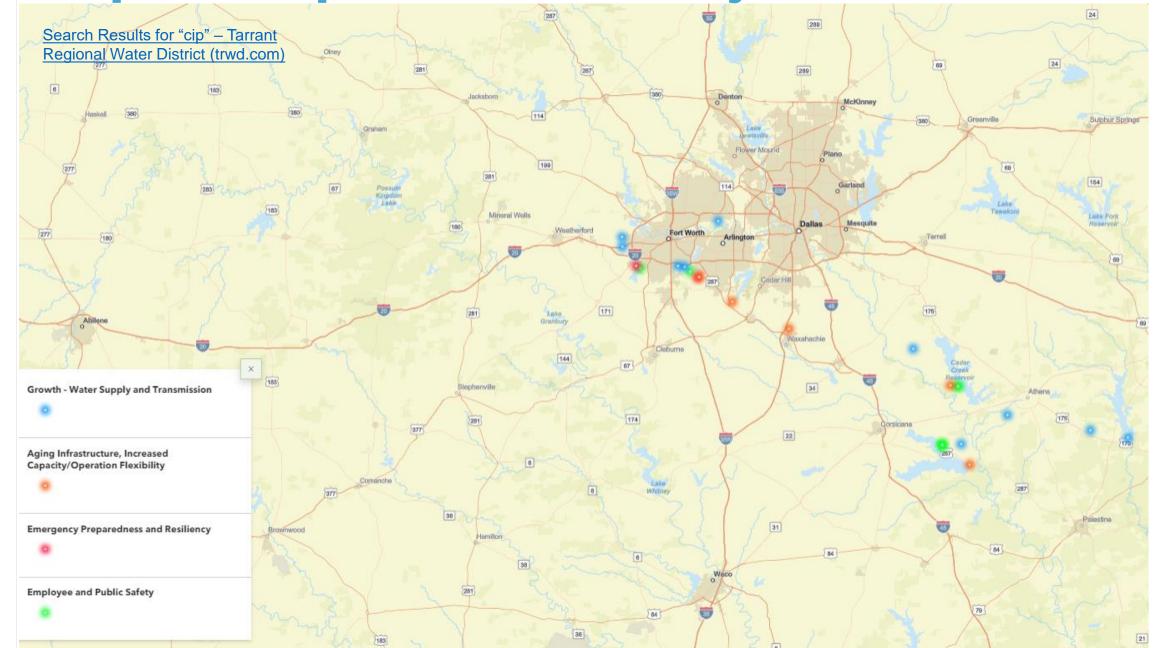
Water Rate by Year







Capital Improvement Projects





Cedar Creek Wetlands



\$460 M

In operation by 2032

150+ MGD supply capacity



Lake Palestine Pump Station & Pipeline

(Funded 100% by Dallas Water)





\$640 M remaining

In operation by 2027

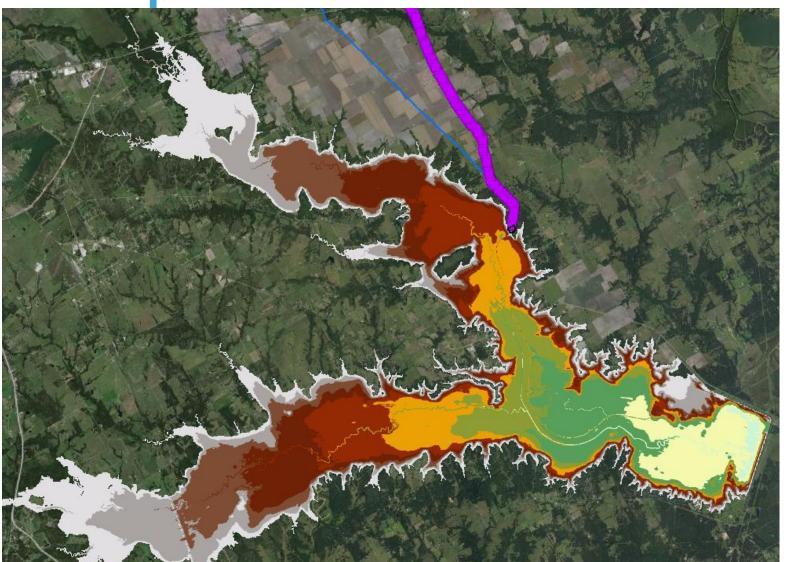
150 MGD pumping capacity

84" pipeline



REATION Trwd

Richland Chambers Lake Pump Station (JRC1) and Pipeline



\$450 M

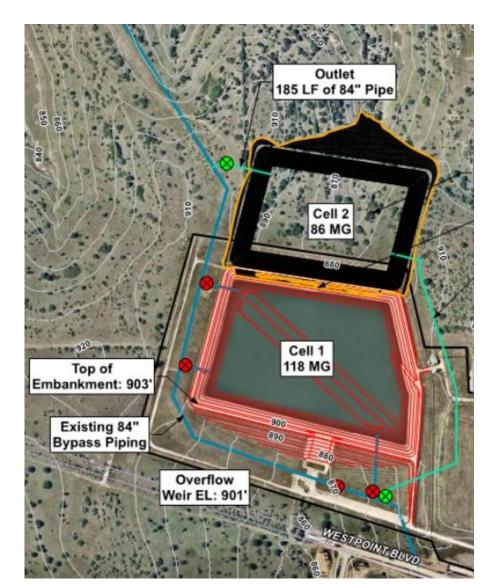
In operation by 2035

250 MGD pumping capacity

96" pipeline

Emergency Preparedness and Resilience

Eagle Mountain Balancing Reservoir Expansion



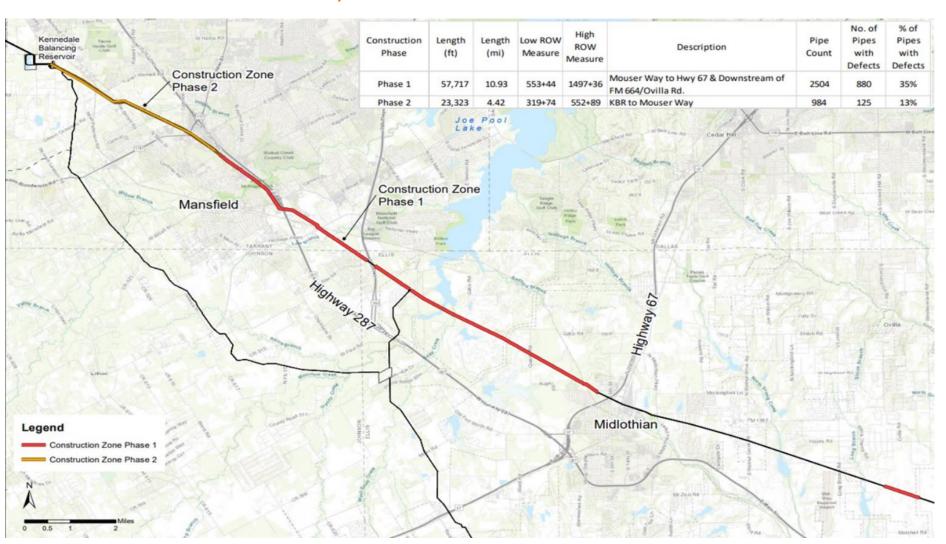
\$37 M

86 MG additional storage in 2nd cell



Cedar Creek Section Two 72" Pipeline Replacement

Phase 1: 11 miles of 90"/102", Phase 2: 4.5 miles of 102"



Phase 1: \$110 M

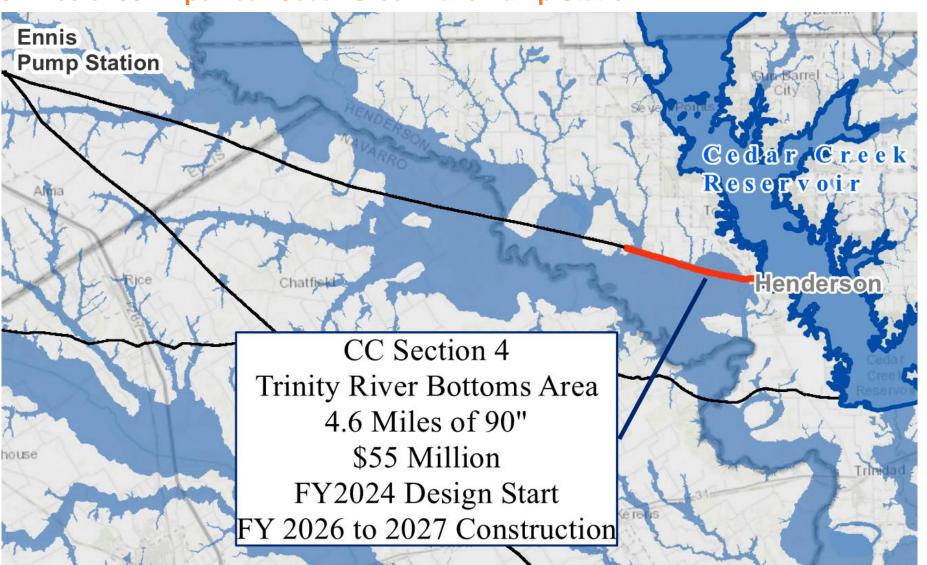
Phase 2: \$47M

Completed by 2027



Cedar Creek Section Four 72" Pipeline Replacement

5 miles of 90" Pipe near Cedar Creek Lake Pump Station

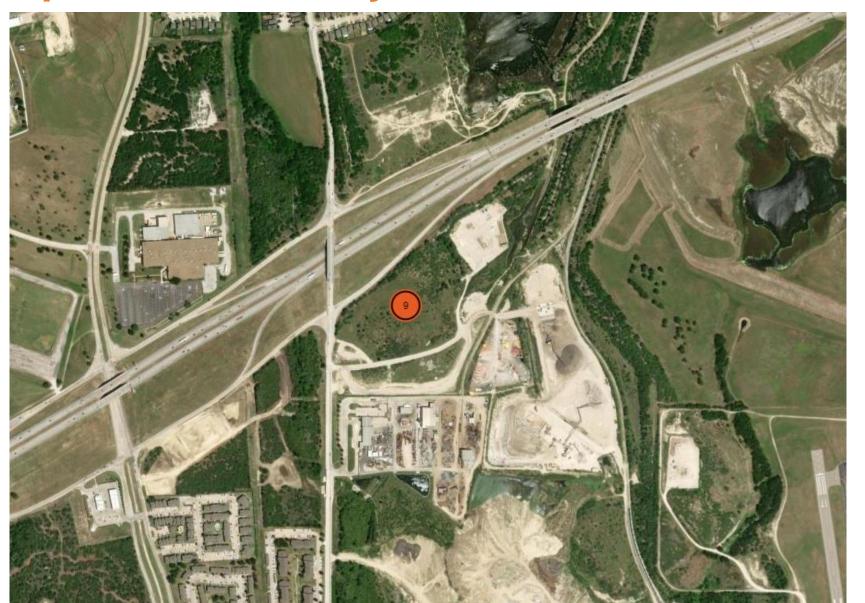


\$55M

Completed by 2028



Operations Facility



Existing facility over 60 years old

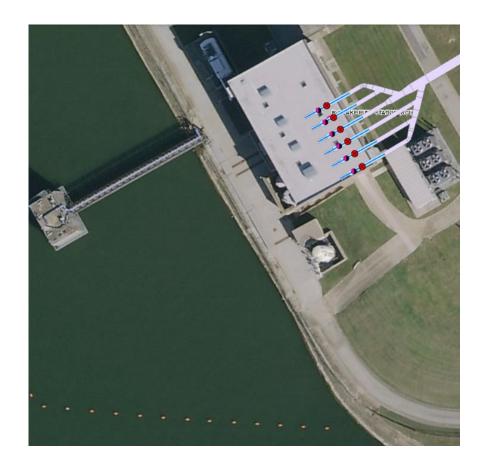
25 acre site off **Loop 820** North and **Old Decatur** Road

Completed by 2026



Employee and Public Safety Emergency Preparedness and Resilience

Multiple Chemical Feed System Upgrades



\$12.5M chlorine to sodium hypochlorite conversion at Richland-Chambers Lake PS



\$2.5M copper ion addition for zebra mussel control at Benbrook Lake PS



Electrical Buildings for Richland Chambers & Cedar Creek Lake Pump Stations



Replacement of outdated 4,160 volt equipment

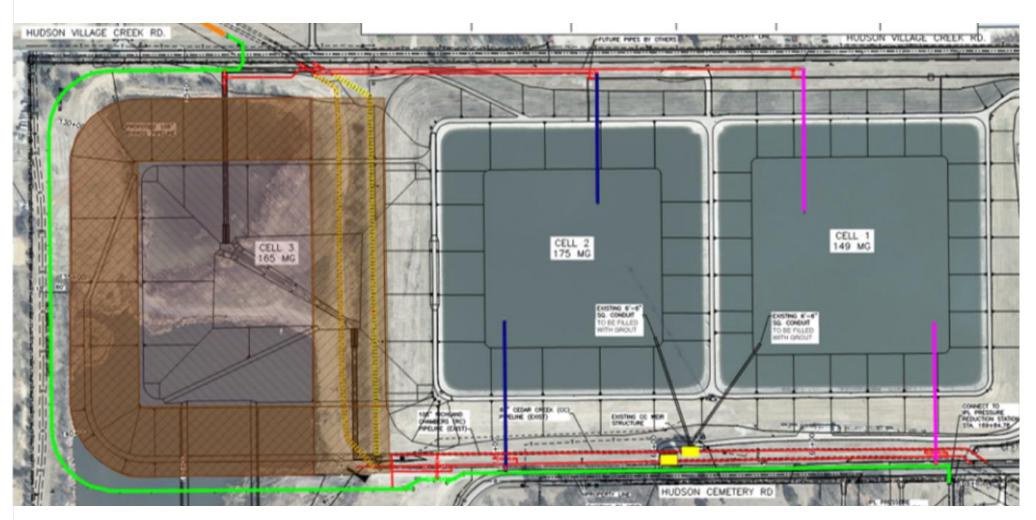
Addition of variable frequency drives for pump speed adjustment

\$23M for RC; \$20M for CC

Completed by 2027



Kennedale Balancing Reservoir Expansion (3rd Cell)

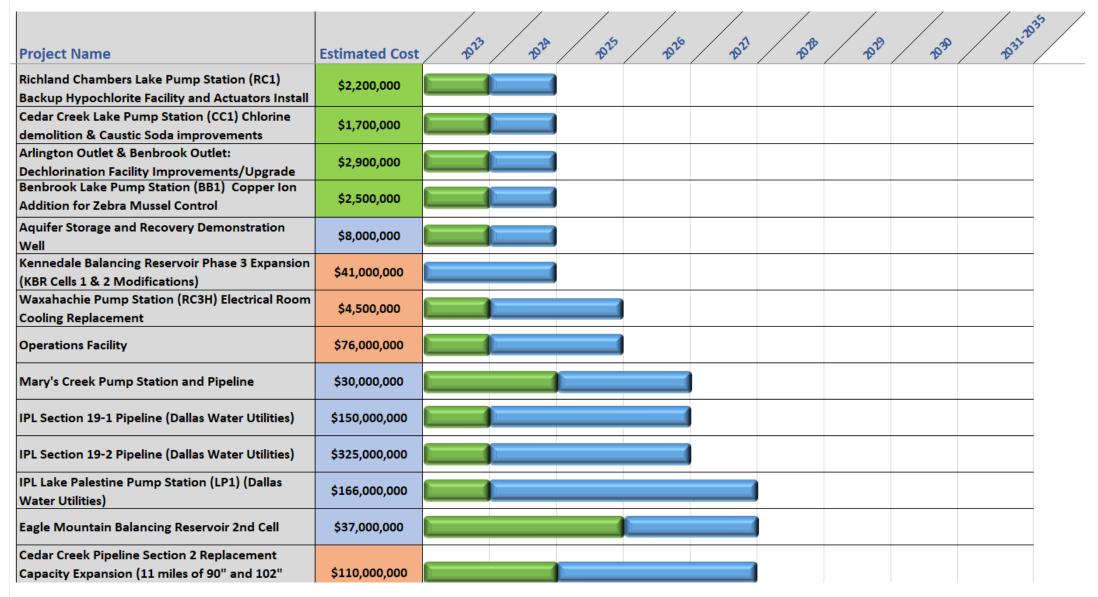


\$50 M

165 MG additional storage in 3rd cell



Capital Improvement Projects Schedule





Capital Improvement Projects Schedule



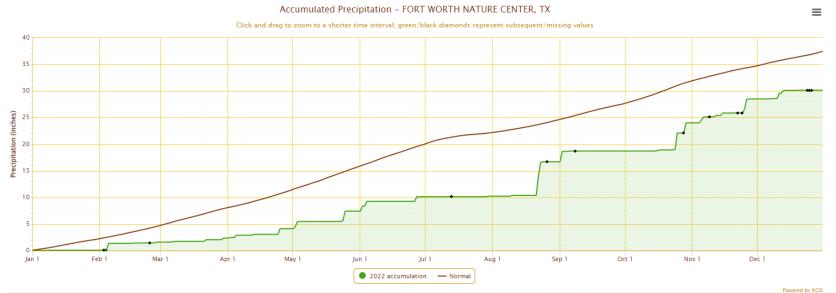


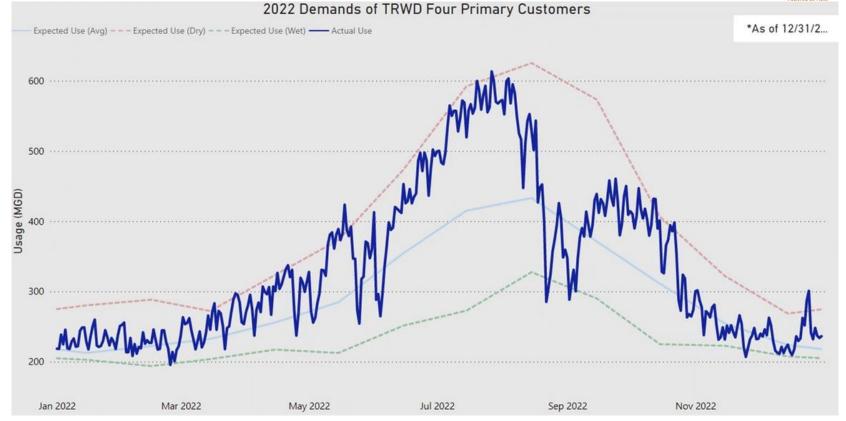
Staff Update

Water Resources Update

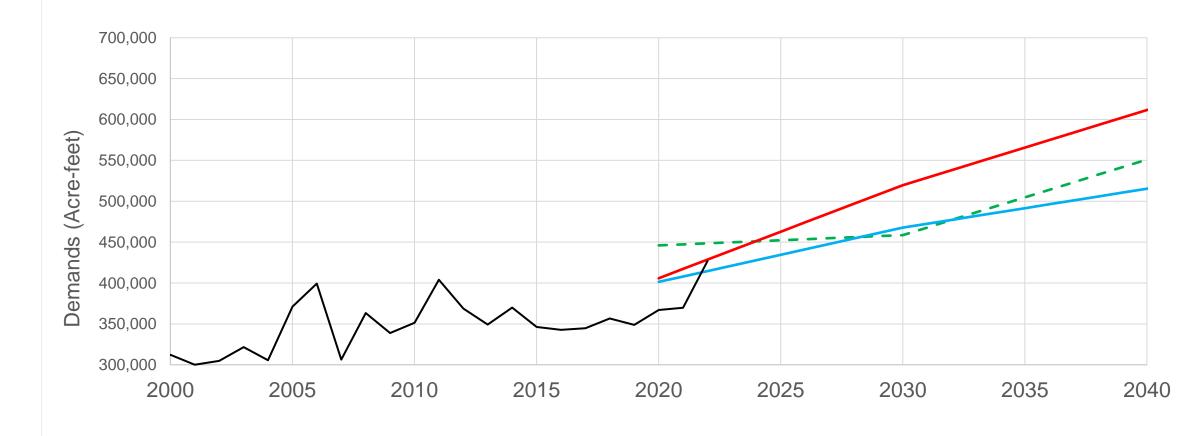
Rachel Ickert, Chief Water Resources Officer







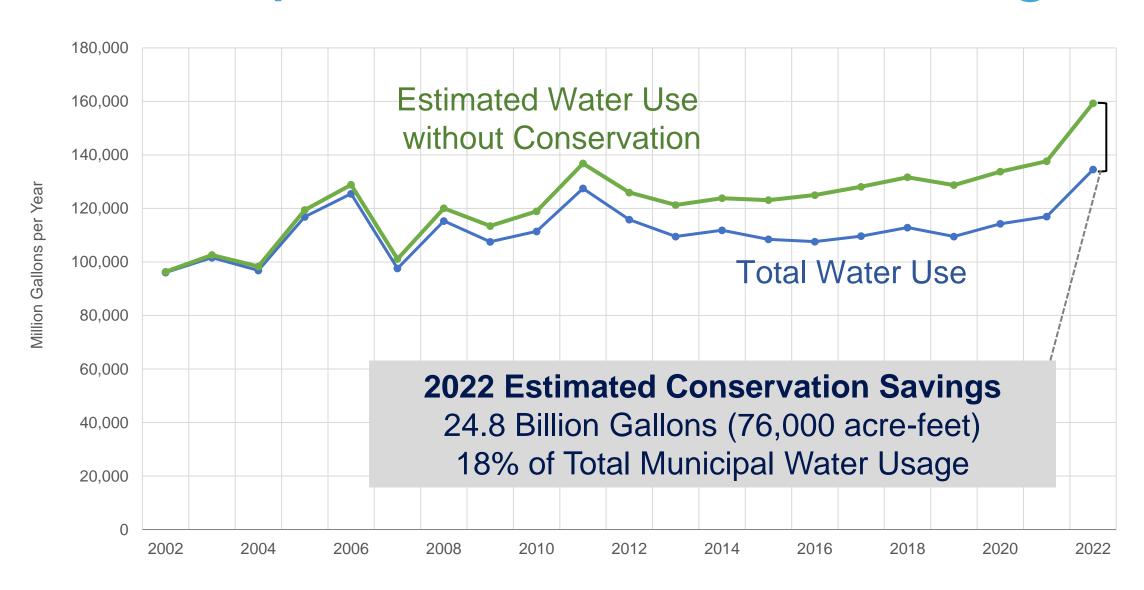
TRWD Total Usage and Projected Dry Year Demands



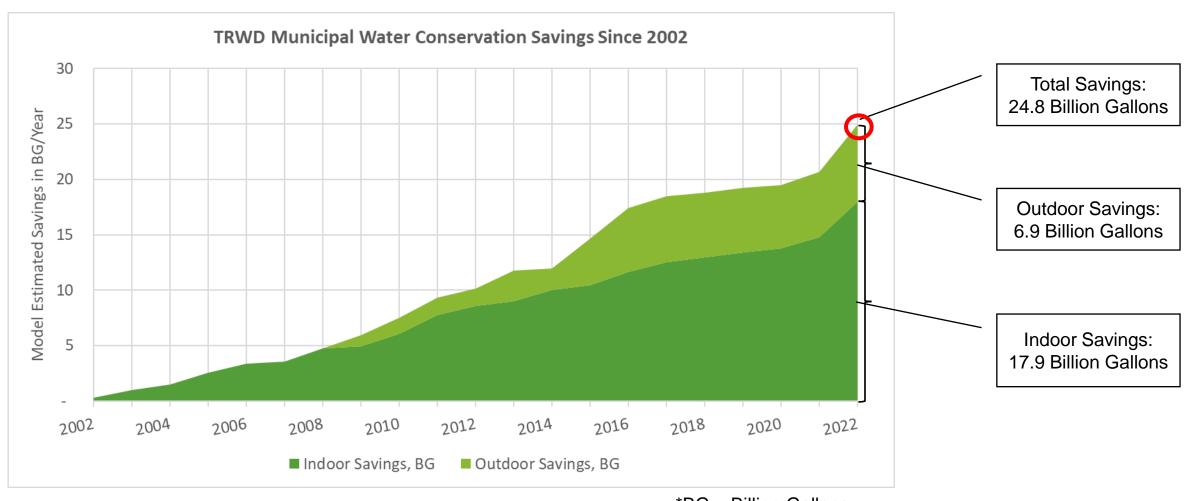




Municipal Conservation Savings

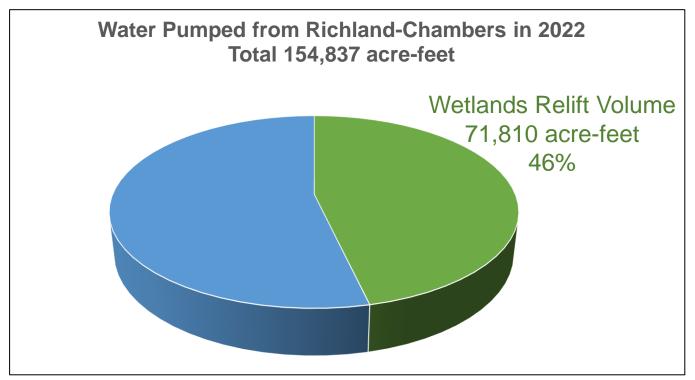


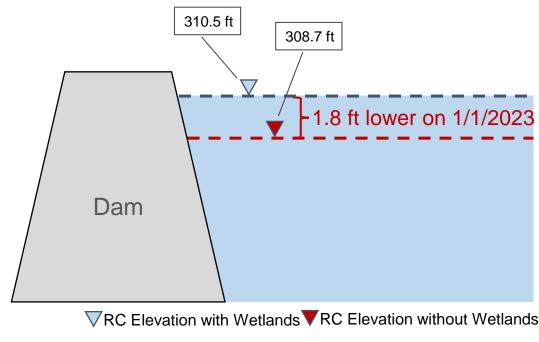
Municipal Conservation Savings



*BG = Billion Gallons

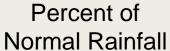
2022 Reclaimed Water Overview





The volume of water from the George Shannon Wetlands could have filled:

- Lake Worth over two times (LW full: 34,341 AF)
- Lake Arlington almost two times (LA full: 40,188 AF)





LEGEND

0 - 50 %

50 - 75 %

75 - 100 %

100 - 125 %

125 - 150 %

150 - 175 %

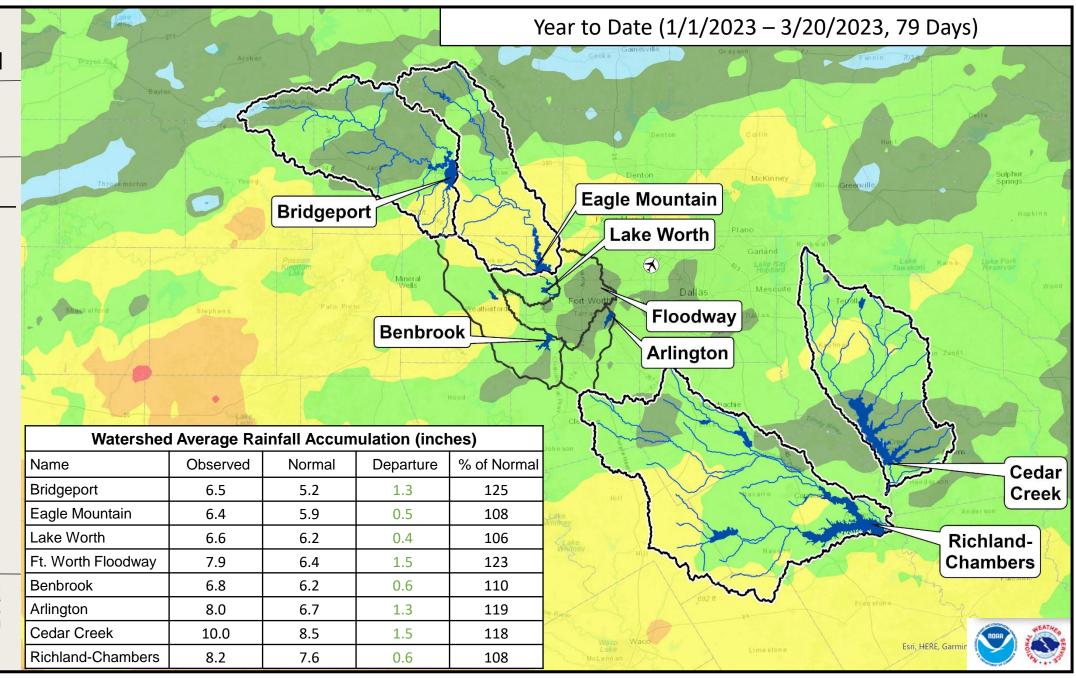
175 - 200 %

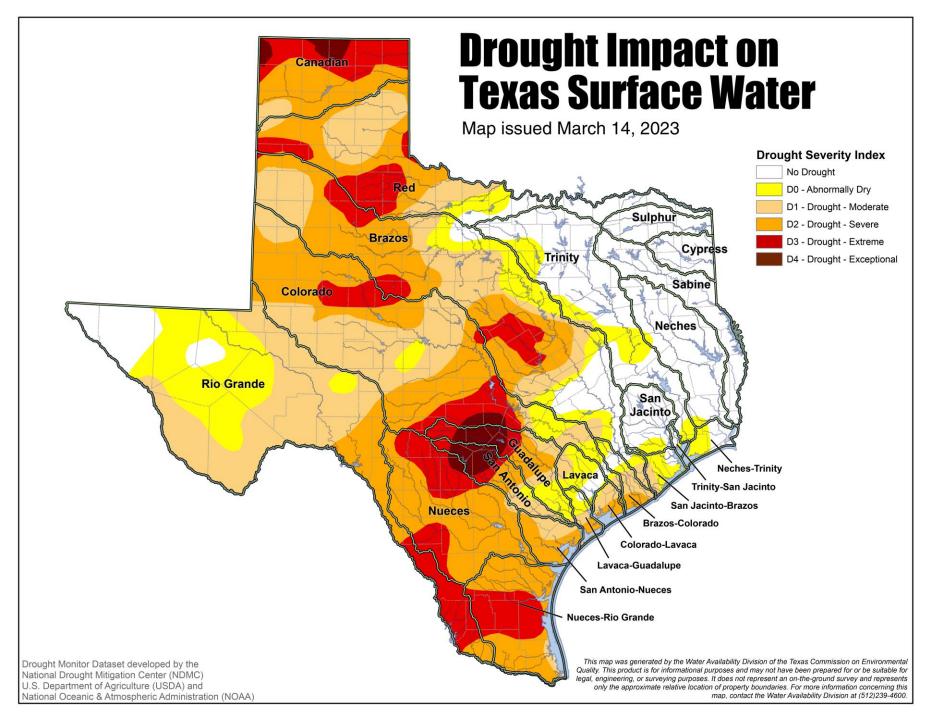
200 - 225 %

225 - 250 %

> 250%

Precipitation totals are obtained from NOAA's NWS. The totals displayed are estimated by the WGRFC. The data is processed and displayed using ESRI ArcGIS.





March 14, 2023

(Released Thursday, Mar. 16, 2023)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	22.03	77.97	64.71	41.59	14.21	1.84
Last Week 03-07-2023	20.52	79.48	64.01	35.54	13.41	1.84
3 Month's Ago 12-13-2022	24.95	75.05	52.09	26.55	7.01	1.39
Start of Calendar Year 01-03-2023	28.84	71.16	49.90	26.60	7.41	1.60
Start of Water Year 09-27-2022	14.96	85.04	61.36	31.61	8.82	1.06
One Year Ago 03-15-2022	3.69	96.31	91.22	70.13	41.20	8.63

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:

Brad Rippey

U.S. Department of Agriculture

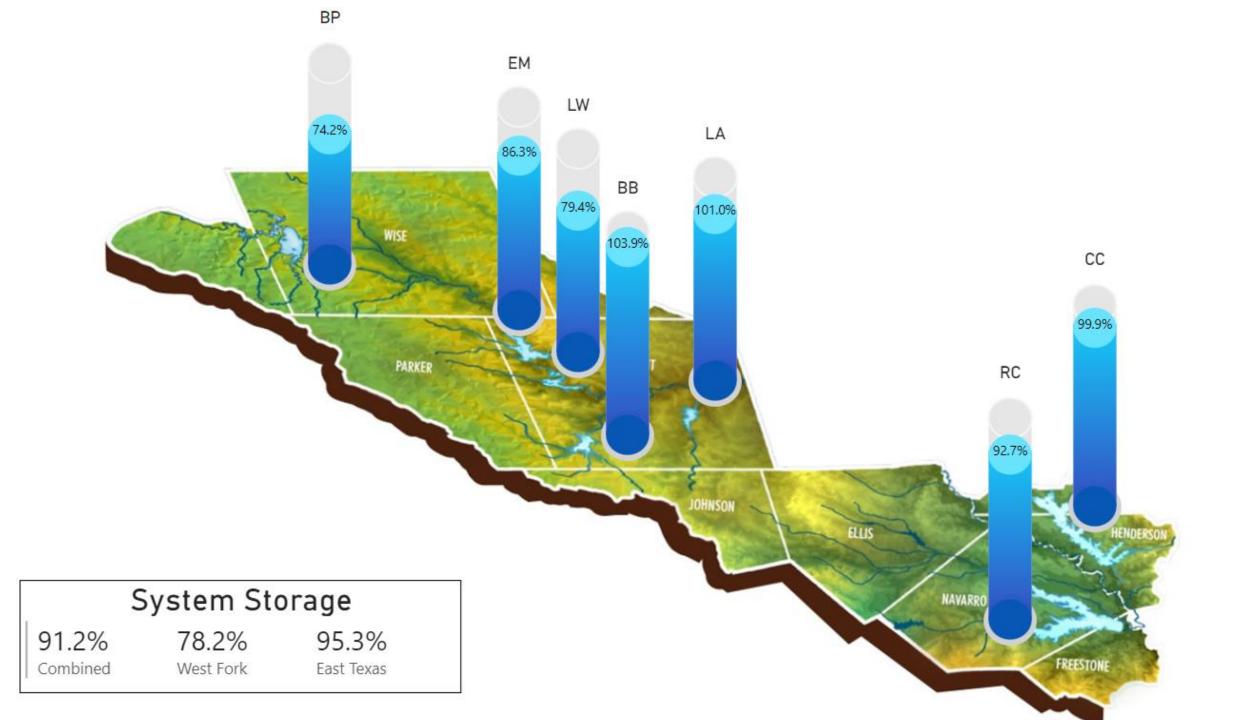




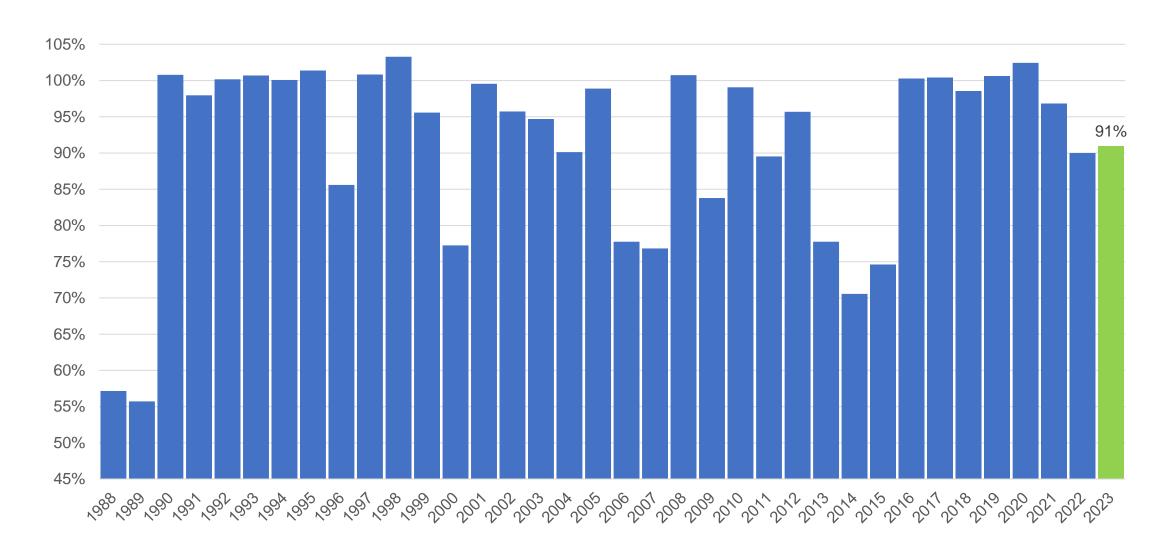




droughtmonitor.unl.edu



Percent of Total Storage on March 20



Rainfall Forecast



LEGEND

0.01 - 0.1 inches

0.1 - 0.25 inches

0.25 - 0.5 inches

0.5 - 1 inches

1 - 1.5 inches

1.5 - 2 inches

2 - 3 inches

3 - 4 inches

4 - 5 inches

5 - 6 inches

6 - 8 inches

8 - 10 inches

10 - 15 inches

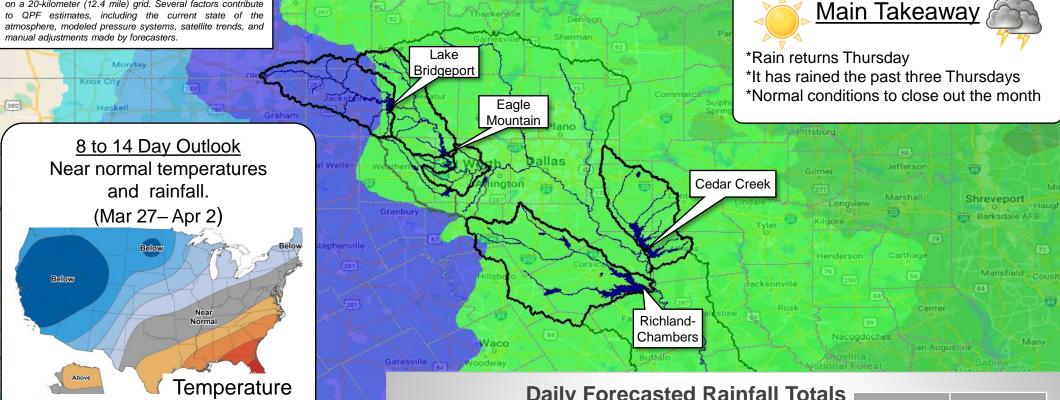
15 - 20 inches

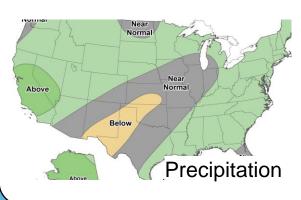
20 - 30 inches

> 30 inches

Precipitation forecast is obtained from NOAA's NWS and provided by the Weather Prediction Center (WPC). The data is processed and displayed using USACE Met-Vue software

22MAR2023 (WED) - 26MAR2023 (SUN) Duration: 5 Days





pperas Cov

Note on QPF - QPFs depict the amount of liquid precipitation

expected to fall during a specified time period in the future. Because precipitation can vary significantly over short distances, QPFs are reported as the expected "areal average"

on a 20-kilometer (12.4 mile) grid. Several factors contribute

2.0		any i oi	oodoto	a rtaiiiia	ii i otai	
Depth (in.) 1.5				■BP ■EM	CC RC	,
1.0 -						_
Rainfall 0.0						_
₩ 0.0	WED (3/22)	THU (3/23)	FRI (3/24)	SAT (3/25)	SUN (3/26)	4
				1		

Reservoir	Total (in.)
BP	0.4
EM	0.6
CC	0.9
RC	0.6

NWS Forecast Time: 2023-03-20 1200 GMT





Executive Session





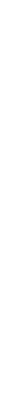


Consider Approval of Purchase Installation of Microwave Radio Equipment at Multiple District Sites

Travis Bird, Director of Information Services









Future Agenda Items







Next Board Meeting April 18, 2023 at 9:00 AM







Adjourn



