



BRAZOS G REGIONAL WATER PLANNING GROUP

PUBLIC INPUT PRE-PLANNING MEETING

WEDNESDAY, SEPTEMBER 29, 2021

10:00 A.M.

BRAZOS RIVER AUTHORITY

4600 COBBS DR. WACO, TX 76710



- 1. WELCOME**
- 2. INTRODUCTION**
- 3. ATTENDANCE AND ANNOUNCEMENTS**



4. PUBLIC HEARING

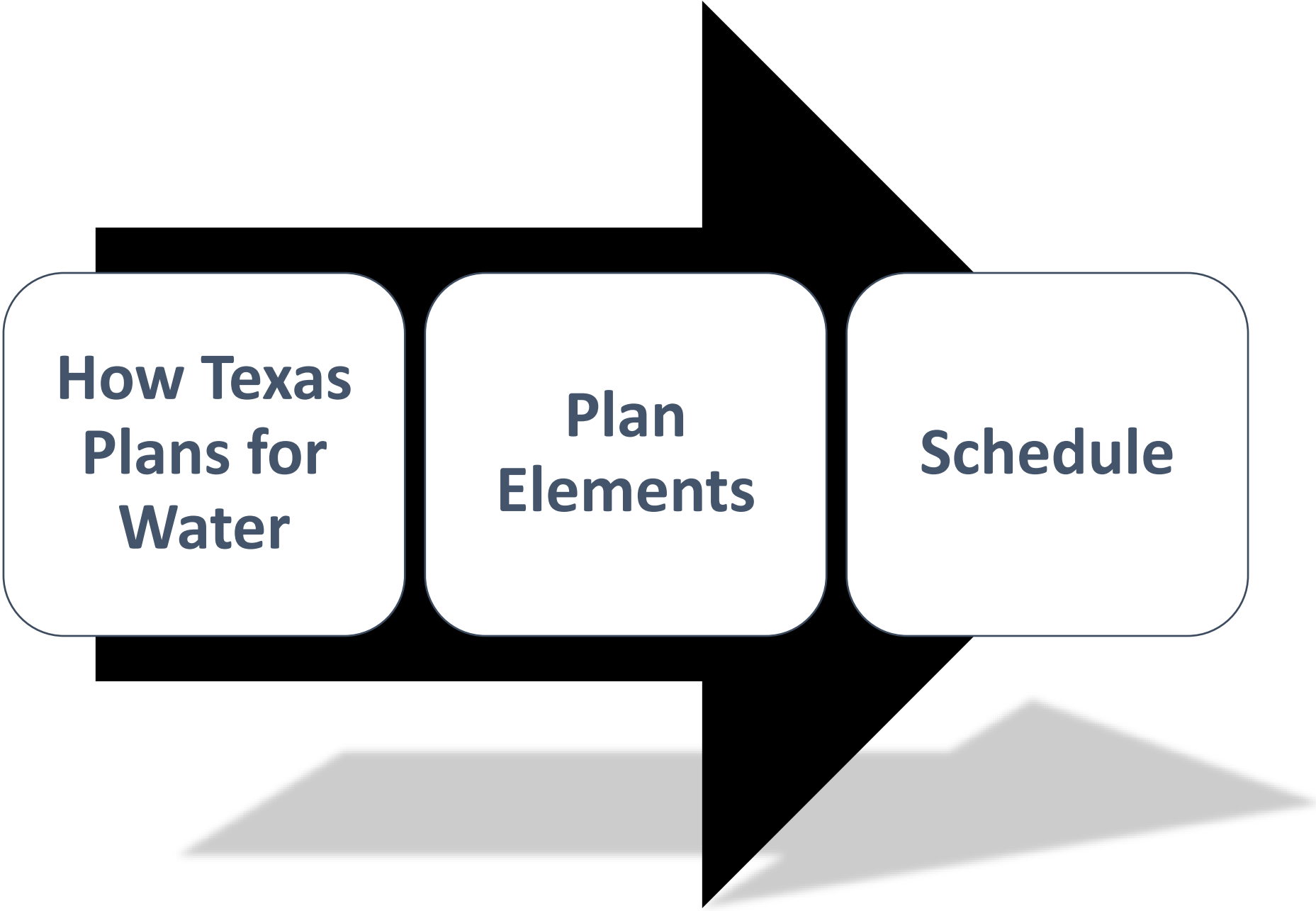
4.1. Pre-Planning Public Input Meeting for the Sixth Cycle of Regional Water Planning. (limited to 5 minutes each; public must fill out a 'Request to Speak' form prior to comment. The Brazos G Regional Water Planning Group will not deliberate or discuss comments during public input.)

4.1.1. Overview of the Regional Water Planning process presented by the Technical Consultant Team

Brazos G Water Planning

Summary





**How Texas
Plans for
Water**

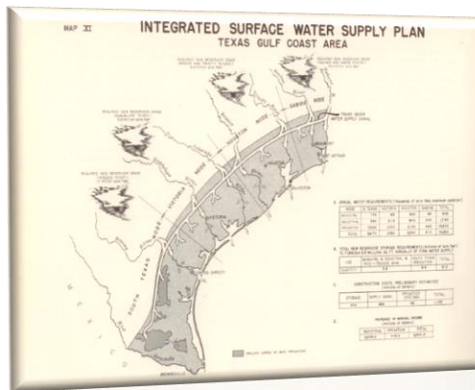
**Plan
Elements**

Schedule

1950's Drought – Legislative Response

➤ 1950 - 57

- Drought of Record



➤ 1957

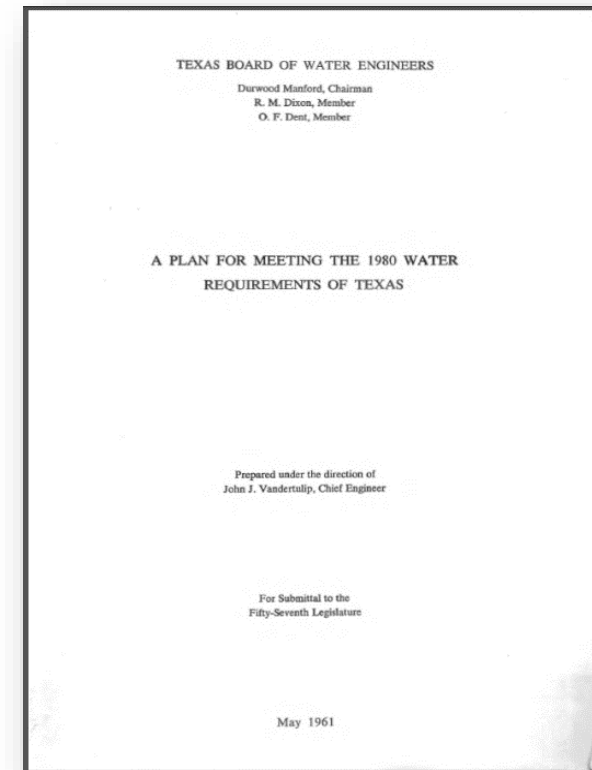
- Formation of TWDB
- \$200 million Water Development Fund



Gov. Price Daniel

➤ 1961

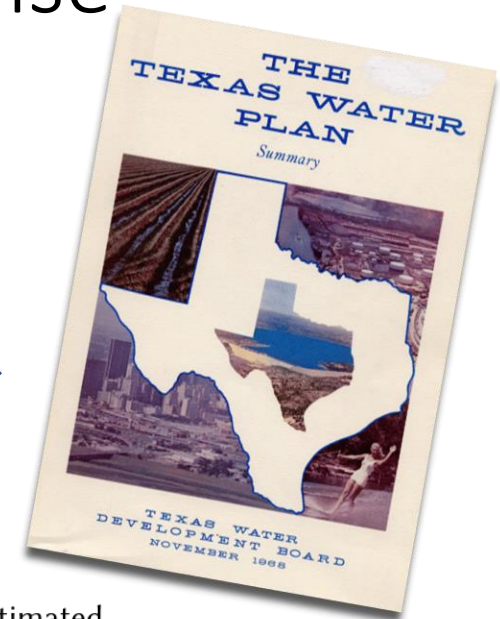
- First Water Plan: State Board of Water Engineers



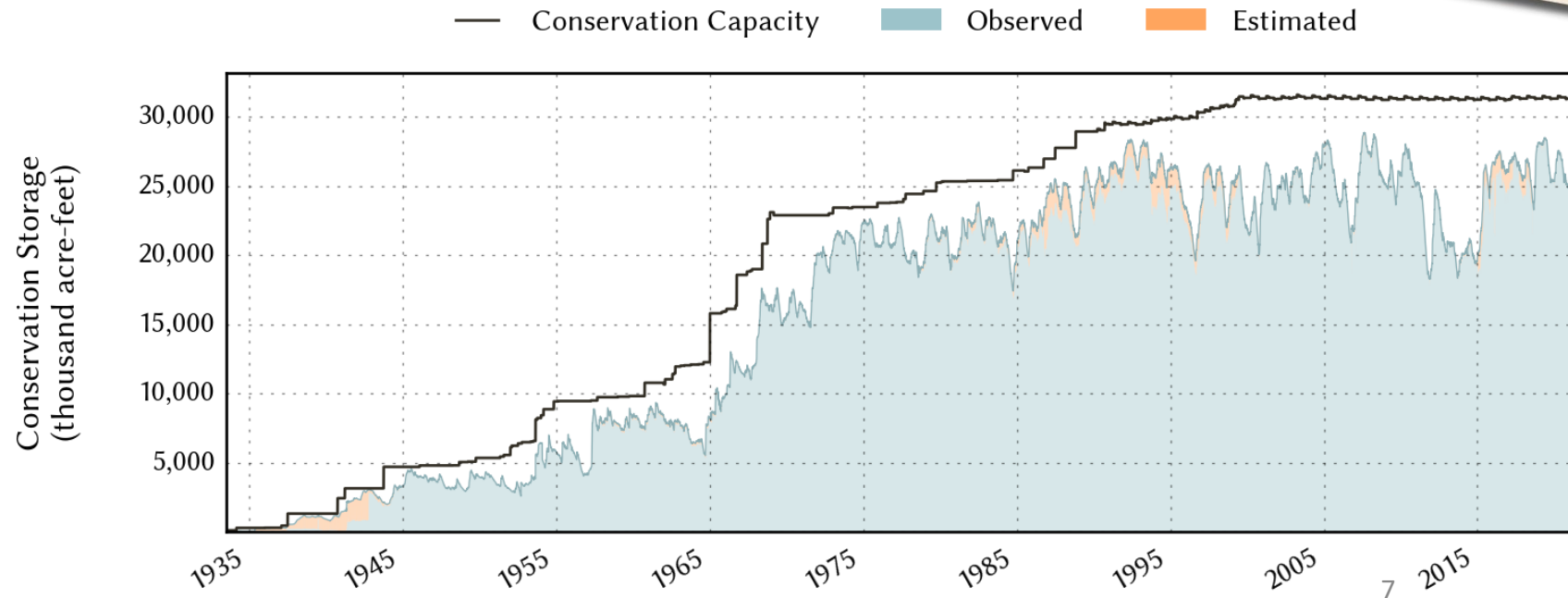
1950's Drought – Legislative Response

- '68 Plan featured “Burleigh’s Ditch” which would move Mississippi River water into Texas to the Panhandle

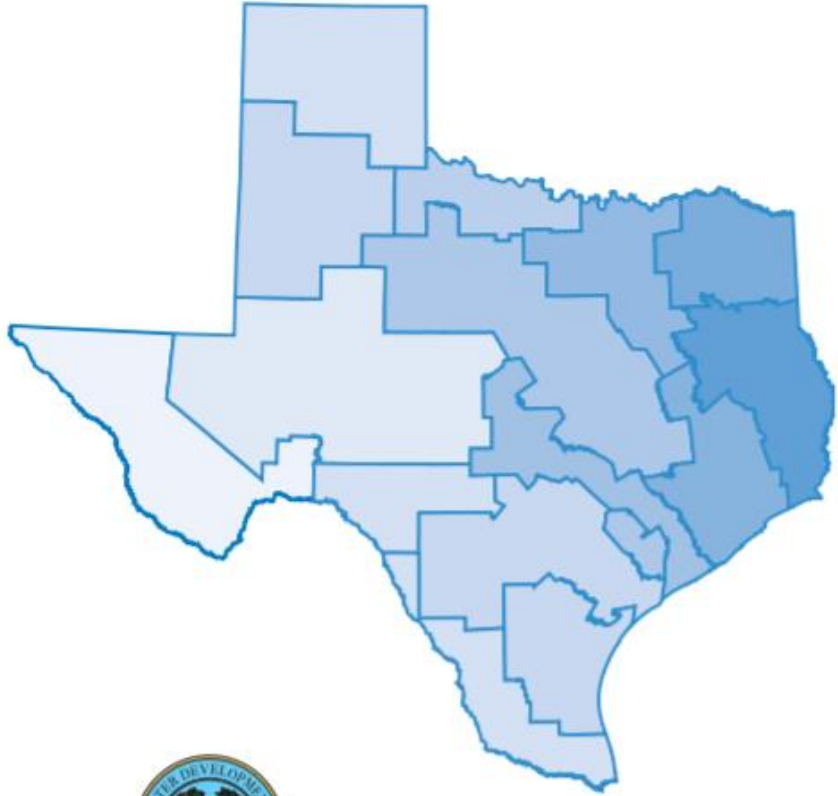
State developed the water plan with input from stakeholders



- 11 State Water Plans (1961 – 2021)



Water for Texas – 2002



*Texas Water Development Board
January 2002*

Supply Planning Paradigm
Shift:

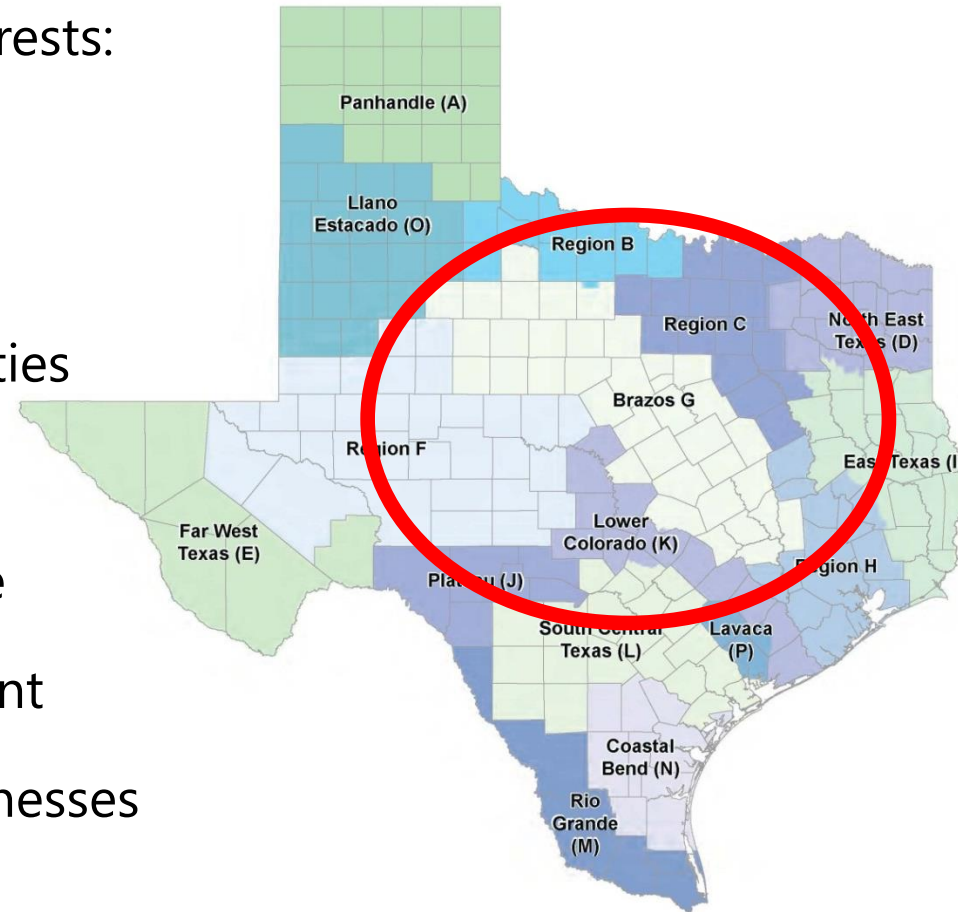
Senate Bill 1 & Regional
Planning

Late 90's potential new
Drought of Record

Regional Water Planning

Statutory interests:

- Public
- Counties
- Municipalities
- Industries
- Agriculture
- Environment
- Small businesses



- Electric-generating utilities
- River authorities
- Water districts
- Water utilities
- Groundwater management areas

Regional Water Planning

- 16 regions each produce a **unique 50-yr plan every five years**
- Collaboration of:
 - Texas citizens
 - Water experts
 - Government agencies
- Goal to sustain cities and rural communities, farms and ranches, homes and businesses while preserving agricultural and natural resources.



Water Management Strategies

- Strategies are the **projects or actions recommended to meet water needs**
- Conservation
- Wastewater reuse
- Desalination of surface or ground water
- New infrastructure to access existing supplies
 - (Example: new intake/pipeline to a reservoir or provider's raw water system)
- New groundwater wells
- New surface water diversions or impoundments in reservoirs (on/off-channel)

Why does the Regional Water Plan

Matter?

Regional and State Water Plans are considered in:





- Permitting (including amendments)
- Funding assistance
- Broad-scale resource to support future growth
 - Evidence of water supply and capability to support economic development
 - High-level base to support additional necessary detailed studies
- Rural water providers with limited funding for individual long-term planning studies



Consistency

- Consistency is achieved when a proposed project will use the **same source of water** as currently used or recommended in the water plan
- A project does not have to be in the water plan **unless** certain state financing is used (SWIFT, etc.)
- Treatment & distribution infrastructure usually not included in plans

Regional Water Plan Chapters

No.	Title	Initial Authorization
1	Description of the Regional Water Planning Area	
2	Population and Water Demand Projections	
3	Evaluation of Current Water Supplies in the Region	
4	Identification of Water Needs	
5	Identification and Evaluation of Potentially Feasible, Recommended, and Alternative Water Management Strategies	
6	Impacts of the Regional Water Plan, and Description of How the Regional Water Plan is Consistent with the Long-Term Protection of the State's Water, Natural, and Agricultural Resources	
7	Drought Response Information, Activities, and Recommendations	
8	Unique Stream Segments, Reservoir Sites, and Legislative Recommendations	
9	Infrastructure Financing Analysis	
10	Adoption of Plan and Public Participation	
11	Implementation and Comparison to Previous Regional Water Plan	13

Key Deliverables and Deadlines

Technical Memorandum

- March 4, 2024

Initially Prepared Plan

- March 3, 2025

Final Regional Water Plan

- October 20, 2025



Questions?

Tony L. Smith, P.E.
Carollo Engineers, Inc.
Office: 512-427-8151
TLSmith@Carollo.com



4.1.2. Receive public input and comments on issues that should be addressed or provisions that should be included in the 2026 Brazos G Region Water Plan and the 2027 State Water Plan



- 4.1.3.** Discuss the potential process for conducting interregional coordination regarding water management strategies during development of the 2026 Regional Water Plans

- 4.1.4.** Consider the identification of water management strategies during development of the 2026 Regional Water Plans

Brazos G Water Planning

Preliminary List of Water Management
Strategies and Projects for Potential
Interregional Coordination



New Requirement for 2026

Discuss how the RWPG will conduct interregional coordination and collaboration regarding water management strategies (WMSs) during development of the 2026 Regional Water Plan

Supporting data on WMSs from the 2021 Regional Water Plans & 2022 State Water Plan.

- Recommended WMSs and WMS Projects
- Alternative WMSs

Preliminarily Identified Recommended WMS from 2021 Regional Water Plans

Recommended Water Management Strategies	Sponsor Region	Source Region	Potential Receiving Region	WMS Type	Year Online	2070 Total Supply (AFY)
CORSICANA - HALBERT/RICHLAND CHAMBERS WTP	C	C	C; G	OTHER SURFACE WATER	2040	4,499
MARVIN NICHOLS (328) STRATEGY FOR NTMWD, TRWD, AND UTRWD	C	D	C; D; G	NEW MAJOR RESERVOIR	2050	451,500
MIDLOTHIAN - UNALLOCATED SUPPLY UTILIZATION	C	C	C; G	OTHER SURFACE WATER	2020	3,366
TRWD - ADDITIONAL CEDAR CREEK AND RICHLAND-CHAMBERS	C	C	C; D; G; I	INDIRECT REUSE	2030	35,540
TRWD - AQUIFER STORAGE AND RECOVERY PILOT	C	C	C; D; G	AQUIFER STORAGE & RECOVERY	2020	5,000
TRWD - CARRIZO-WILCOX GROUNDWATER	C	C; I	C; D; G; I	GROUNDWATER WELLS & OTHER	2040	28,094
TRWD - CEDAR CREEK WETLANDS	C	C	C; D; G	INDIRECT REUSE	2030	88,059
TRWD - REUSE FROM TRA CENTRAL WWTP	C	C	C; D; G	INDIRECT REUSE	2030	60,000
TRWD - TEHUACANA	C	C	C; D; G; I	NEW MAJOR RESERVOIR	2040	21,070
TRWD - UNALLOCATED SUPPLY UTILIZATION	C	C	C; D; G; I	OTHER SURFACE WATER	2020	8,347
WAXAHACHIE - DREDGE WAXAHACHIE LAKE	C	C	C; G	OTHER SURFACE WATER	2040	810
WAXAHACHIE - UNALLOCATED SUPPLY UTILIZATION	C	C	C; G	OTHER SURFACE WATER, INDIRECT REUSE	2030	721
WRIGHT PATMAN REALLOCATION FOR NTMWD, TRWD, AND UTRWD	C	D	C; D; G; I	OTHER SURFACE WATER	2070	122,200
SUBORDINATION - CRMWD SYSTEM	F	F	F; G	OTHER SURFACE WATER	2020	22,393
SUBORDINATION - OAK CREEK RESERVOIR	F	F	F; G	OTHER SURFACE WATER	2020	840
SUBORDINATION - OH IVIE NON SYSTEM PORTION	F	F	F; G	OTHER SURFACE WATER	2020	1,562
WEST TEXAS WATER PARTNERSHIP (OH IVIE NON SYSTEM PORTION)	F	F	F; G	OTHER SURFACE WATER	2030	7,434
BRA SYSTEM OPERATION--SURPLUS	G	G	F; G	OTHER SURFACE WATER	2020	14,644
CARRIZO AQUIFER DEVELOPMENT - BISTONE MWSD	G	G	C; G	GROUNDWATER WELLS & OTHER	2060	460
LCRA - MID BASIN RESERVOIR	K	K	G; K	NEW MAJOR RESERVOIR	2030	20,000

Recommended WMS	Split WUGs Potentially Receiving Supply
CORSICANA - HALBERT/RICHLAND CHAMBERS WTP	Post Oak SUD, County-Other (Hill)
MIDLOTHIAN - UNALLOCATED SUPPLY UTILIZATION	County-Other (Johnson), Venus
MARVIN NICHOLS (328) STRATEGY FOR NTMWD, TRWD, AND UTRWD	Bethesda WSC, Burleson, Cleburne, County-Other (Johnson), Crowley, Files Valley WSC, Fort Worth, Johnson County SUD, Mansfield, Mountain Peak SUD, and Venus
TRWD - ADDITIONAL CEDAR CREEK AND RICHLAND-CHAMBERS	
TRWD - AQUIFER STORAGE AND RECOVERY PILOT	
TRWD - CARRIZO-WILCOX GROUNDWATER	
TRWD - CEDAR CREEK WETLANDS	
TRWD - REUSE FROM TRA CENTRAL WWTP	
TRWD - TEHUACANA	
WRIGHT PATMAN REALLOCATION FOR NTMWD, TRWD, AND UTRWD	
TRWD - UNALLOCATED SUPPLY UTILIZATION	Mansfield, Crowley
WAXAHACHIE - DREDGE WAXAHACHIE LAKE	Files Valley WSC
WAXAHACHIE - UNALLOCATED SUPPLY UTILIZATION	
SUBORDINATION - CRMWD SYSTEM	Rotan
SUBORDINATION - OAK CREEK RESERVOIR	Sweetwater
SUBORDINATION - OH IVIE NON SYSTEM PORTION	Abilene
WEST TEXAS WATER PARTNERSHIP (OH IVIE NON SYSTEM PORTION)	Abilene, North Runnels WSC
BRA SYSTEM OPERATION--SURPLUS	Winters, Abilene, FHLM WSC, North Runnels WSC (Region F)
CARRIZO AQUIFER DEVELOPMENT - BISTONE MWSD	Bistone MWSD, Mexia, Wortham (Region C)
LCRA - MID BASIN RESERVOIR	Leander

Preliminarily Identified Recommended
WMS **Projects** from 2021 Regional
Water Plans

Recommended WMS	No. of Projects	Est. Total Cost of Associated Recommended Projects
BRA SYSTEM OPERATION--SURPLUS	4	\$ 167,370,000
CARRIZO AQUIFER DEVELOPMENT - BISTONE MWSD	1	\$ 1,772,000
CORSICANA - HALBERT/RICHLAND CHAMBERS WTP	3	\$ 103,116,000
LCRA - MID BASIN RESERVOIR	1	\$ 344,259,000
MARVIN NICHOLS (328) STRATEGY FOR NTMWD, TRWD, AND UTRWD	7	\$ 5,871,373,000
MIDLOTHIAN - UNALLOCATED SUPPLY UTILIZATION	3	\$ 57,094,000
TRWD - ADDITIONAL CEDAR CREEK AND RICHLAND-CHAMBERS	7	\$ 2,467,473,000
TRWD - AQUIFER STORAGE AND RECOVERY PILOT	2	\$ 17,538,000
TRWD - CARRIZO-WILCOX GROUNDWATER	5	\$ 388,758,000
TRWD - CEDAR CREEK WETLANDS	5	\$ 415,865,000
TRWD - REUSE FROM TRA CENTRAL WWTP	5	\$ 343,752,000
TRWD - TEHUACANA	5	\$ 515,015,000
TRWD - UNALLOCATED SUPPLY UTILIZATION	4	\$ 189,547,000
WAXAHACHIE - DREDGE WAXAHACHIE LAKE	1	\$ 37,120,000
WAXAHACHIE - UNALLOCATED SUPPLY UTILIZATION	5	\$ 130,619,000
WEST TEXAS WATER PARTNERSHIP (OH IVIE NON SYSTEM PORTION)	1	\$ 549,093,000
WRIGHT PATMAN REALLOCATION FOR NTMWD, TRWD, AND UTRWD	5	\$ 1,835,258,000

Preliminarily Identified **Alternative**
WMS
from 2021 Regional Water Plans

Alternative Water Management Strategies

Alternative Water Management Strategies	Sponsor Region	Source Region	Potential Receiving Region	Potential Receiving WUG	WMS Type	Year Online	2070 Total Supply (AFY)
REGIONAL SYSTEM FROM LAKE FT. PHANTOM HILL TO RUNNELS AND COKE COUNTIES	F	G	F; G	Ballinger, Bronte, Robert Lee, Winters	OTHER SURFACE WATER	2040	952
ROBERT LEE - DEVELOPMENT OF EDWARDS TRINITY PLATEAU AQUIFER SUPPLIES IN NOLAN CO	F	G	F	Robert Lee	GROUNDWATER WELLS & OTHER	2030	75
WEST TEXAS WATER PARTNERSHIP (ALTERNATIVE)	F	G	G	Abilene	OTHER SURFACE WATER	2030	8,400
TRINITY - JOHNSON COUNTY ASR	G	G	C; G	Johnson County SUD	AQUIFER STORAGE & RECOVERY	2030	6,100



Questions?

Tony L. Smith, P.E.
Carollo Engineers, Inc.
Office: 512-427-8151
TLSmith@Carollo.com