

June 5, 2024

Brian McMath
Interim Executive Director
Texas Water Development Board
1700 Congress Avenue
Austin, Texas 78701

Re: Amendment to the 2021 Region F Water Plan

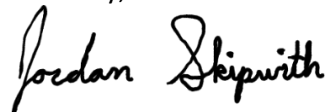
Dear Mr. McMath:

The Region F Water Planning Group (RFWPG) has reviewed, considered, and approved the amendment to the 2021 Region F Water Plan (RWP) in response to the infeasible strategy review of 2021 RWP, as required by Texas Water Code 16.053(h)(10). During the review process, four strategies were identified as needing changes to meet feasibility criteria. These changes were considered by the RFWPG at its February 1, 2024, regular public meeting. The RFWPG took formal action at the meeting to approve the submittal of an amendment package to TWDB for review to determine minor amendment status. This package was submitted to TWDB on March 22, 2024. The TWDB completed their review of this amendment package on April 17, 2024, and determined that the proposed amendments to the 2021 Region F Water Plan were minor.

In accordance with the contractual requirements, a public meeting was held on May 23, 2024, to present and approve this amendment. Notice of the meeting was posted and a public comment period was held 14 days prior to the meeting, starting on May 9, 2024. Public comments were solicited at the public meeting. No public comments were received at the public meeting and no written comments were received during the comment period. This amendment was approved by the RFWPG at the public meeting held on May 23, 2024.

Enclosed please find an electronic copy of the final amendment to the 2021 Region F Water Plan that was approved by the RFWPG. If you have any questions or need additional information related to this submittal, please contact the Region F consultant, Lissa Gregg, at 817-735-7328.

Sincerely,



Jordan Skipwith
Freese and Nichols, Inc.
Consultant for RFWPG

cc: Cole Walker, Chair, RFWPG
Heather Rose, TWDB

Attachments

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2021 REGION F WATER PLAN

AMENDMENT TO 2021 REGION F WATER PLAN

Bronte Substitution of Groundwater Supply Strategy

Junction Groundwater Supply Strategy Online Date

Balmorhea Groundwater Supply Strategy Online Date

Mitchell County Steam Electric Power Strategy Removal

Prepared for
**Region F Water Planning Group and
Texas Water Development Board**

Prepared by
Freese and Nichols, Inc.

MAY 2024

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Bronte Substitution of Groundwater Supply Strategy

Junction Groundwater Supply Strategy Online Date

Balmorhea Groundwater Supply Strategy Online Date

Mitchell County Steam Electric Power Strategy Removal

Prepared for:

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TBPE Reg. No. F-2144



06/05/2024
FREESE AND NICHOLS, INC.
TEXAS REGISTERED
ENGINEERING FIRM
F-2144

MAY 2024

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Attachment 5-2 TWDB Determination Letter Regarding Minor Amendment Status

Attachment 5-3 Notice for Public Comment Period for Amendment

Attachment 5-4 Public Comments Regarding Amendment

Attachment 6 Updated State Water Planning Database (DB22) Reports Relevant to the Amendment

Water Measurements

1 acre-foot (AF) = 43,560 cubic feet = 325,851 gallons

1 acre-foot per year (ac-ft/yr) = 325,851 gallons per year = 893 gallons per day
1 gallon per minute (gpm) = 1,440 gallons per day = 1.6 ac-ft/yr

1 million gallons per day (mgd) = 1,000,000 gallons per day = 1,120 ac-ft/yr

A.1 INTRODUCTION AND PLANNING GROUP ACTION

The Texas legislature passed a new requirement for the 2026 regional water planning cycle that requires Regional Water Planning Groups (RWPGs) to review strategies and projects that were previously adopted during the 2021 planning cycle for potential infeasibility. Infeasible Water Management Strategies (WMSs) are defined as “WMSs where proposed sponsors have not taken an affirmative vote or other action to make expenditures necessary to construct or file applications for permits required in connection with implementation of the WMS on a schedule in order for the WMS to be completed by the time the WMS is needed to address drought in the plan.” If any strategy is determined to be infeasible, the RWPG must amend their 2021 plan to address these infeasible strategies (and associated projects) by either shifting the online decade so that it becomes feasible, removing and replacing it with a new feasible strategy to meet the same need, or removing the strategy and leaving the need unmet.

As part of the infeasible strategy review, four strategies with an online date of 2020 in the 2021 plan were found to be infeasible and require an amendment to the 2021 Region F Water Plan (RWP). This amendment addresses changes to the infeasible strategies and associated projects identified for the Cities of Bronte, Junction, Balmorhea, and steam electric power in Mitchell County.

The City of Bronte requested that the 2021 Region F RWP be amended to include development of Edwards-Trinity Plateau Aquifer supplies in Nolan County as a recommended WMS to replace their previously recommended strategy to develop Other Aquifer supplies in southwest Coke County. The development of groundwater supplies in Nolan County was included as an alternative WMS in the 2021 RWP for Bronte and Robert Lee. The City of Bronte also requested their development of Other Aquifer supplies strategy in southwest Coke County to be changed from a recommended WMS to an alternative WMS.

Colorado City requested to remove their recommended strategy to sell reuse water to steam electric power (SEP) for new FGE Texas plants in Mitchell County. The FGE project has not moved forward yet, so the strategy is proposed to be removed from the 2021 Region F RWP. In addition, the City of Junction and the City of Balmorhea are proposing to amend the online dates of their recommended strategies for developing additional Edwards-Trinity Plateau Aquifer supplies in Kimble and Reeves counties, respectively, from 2020 to 2030 in the 2021 Region F RWP.

On February 1, 2024, the Region F Water Planning Group (RFWPG) held a regular public meeting where it received a presentation regarding these amendment requests and accepted public comments. At the same meeting, the RFWPG requested their consultants submit an application package to Texas Water

Development Board (TWDB) for confirmation of minor amendment status for these changes to the 2021 Region F RWP. The subsequent sections of this amendment package detail proposed changes to the 2021 Region F RWP and document the associated administrative and public processes.

A1.1 SUMMARY OF AMENDMENTS AND ASSOCIATED EVALUATION

A.1.1.1 City of Bronte

The City of Bronte provides retail water to its customers and wholesale water to the City of Robert Lee in Coke County. This supply primarily comes from groundwater from an unknown aquifer (classified as Other Aquifer) in Coke County. Bronte also has a contract with the City of Sweetwater for water from Oak Creek Reservoir (City of Sweetwater), but this reservoir has no reliable supply according to the Colorado River Basin Water Availability Model (WAM) used for the 2021 Region F RWP. Also, the infrastructure to transport the surface water requires rehabilitation. Therefore, for planning purposes, the currently available supply for the City of Bronte comes entirely from groundwater. In the 2021 Region F RWP the City of Bronte is shown to have a need to meet their retail demands and wholesale demands for the City of Robert Lee. The 2021 Region F RWP includes four recommended WMS/projects (not including conservation) for the City of Bronte: 1) subordination of downstream Colorado River Basin water rights to the upper surface water rights, 2) rehabilitate the Oak Creek Reservoir pipeline, 3) expand the existing water treatment plant, and 4) develop Other Aquifer supplies in southwest Coke County. The Region F Water Plan also includes an alternative WMS to develop Edwards-Trinity Aquifer supplies in Nolan County as a joint strategy for the cities of Bronte and Robert Lee.

In the 2021 Region F RWP, the WMS to develop Other Aquifer supplies in Coke County was scheduled to come online by 2020 to meet the City's needs. Since the plan was developed, the City has decided to pursue development of new groundwater supply in Nolan County rather than Coke County. This replacement WMS proposes to use all remaining Edwards-Trinity Aquifer groundwater in the Colorado Basin portion of Nolan County, which is 178 acre-feet per year after accounting for Modeled Available Groundwater (MAG) allocated to existing supplies and other recommended water management strategies. The proposed online decade of this WMS is 2030. Major project components include drilling 5 new wells and infrastructure to transmit the water to Bronte. The new well field has a planned capacity of 178 acre-feet per year. The updated capital costs are \$4.2 million with a unit cost of \$5.74 per 1,000 gallons (kgal) during amortization and \$0.60 per kgal after amortization. With this strategy substitution, the City of Bronte and its customers (Robert Lee and part of Coke County-Other) show a total unmet need of 443 acre-feet in 2020 after conservation due to the change in the online date. After the strategy comes

online in 2030, there are no unmet needs for Bronte and its customers throughout the planning horizon. The City and its customers did not experience a water shortage in 2020.

A.1.1.2 City of Junction

The City of Junction holds surface water rights from the South Llano River in the Colorado River Basin, which is the City's only current water supply. Based on the Colorado River Basin WAM used for the 2021 Region F RWP, this supply is insufficient to meet the City's projected demands even with the subordination strategy. To meet the City's needs, the 2021 Region F RWP recommended the City develop groundwater supplies from the Edwards-Trinity Plateau Aquifer in Kimble County. This strategy included drilling 7 new wells with an annual yield of 370 ac-ft. The online date for this project was scheduled for 2020; however, the City has not yet moved forward on this strategy and is proposing to move the online date from 2020 to 2030. This will create an unmet need of 368 acre-feet after conservation for Junction in 2020. After the strategy comes online in 2030, there are no unmet needs for Junction throughout the planning horizon. There are no other changes to this strategy.

A.1.1.3 City of Balmorhea

The City of Balmorhea supplies its own municipal users, as well as the City of Toyah (classified under County-Other) and is supplied entirely by groundwater from the Edwards-Trinity Plateau and Pecos Valley Aquifers in Jeff Davis County (Region E). The currently developed supply from this groundwater source is limited, and therefore, in the 2021 Region F RWP, the City was projected to have a shortage of 107 acre-feet per year in 2020 and 147 acre-feet per year in 2070. Development of additional groundwater from the Edwards-Trinity Plateau in Reeves County was recommended to meet this need. The water management strategy included drilling 2 new wells with an annual yield of 150 ac-ft. The online date for this project was scheduled for 2020; however, the City has not yet moved forward on this strategy and is proposing to move this online date from 2020 to 2030. This will create an unmet need of 105 acre-feet in 2020 after conservation for Balmorhea. After the strategy comes online in 2030, there are no unmet needs for Balmorhea throughout the planning horizon. There are no other changes to this strategy.

A.1.1.4 Mitchell County Steam Electric Power

Mitchell County Steam Electric Power (SEP) water demand includes the existing Luminant Morgan Creek facility and two proposed FGE Power facilities. During the development of the 2021 Region F RWP, the development of the FGE facilities was speculative and contingent upon market conditions. A recommended strategy was included for Colorado City to sell 500 acre-feet annually of their wastewater effluent to FGE to use as cooling water for these new facilities. Since the 2021 RWP was adopted, the facilities have not been built and this strategy has not been implemented. Thus, no affirmative action has been taken to implement the project and it is recommended to remove the strategy from the 2021 Region

F RWP. Removal of This strategy increases the existing unmet need in Mitchell County for Steam Electric Power by 500 acre-feet to 9,156 acre-feet in 2020 and 9,226 acre-feet by 2070. It is noted that this need may or may not ever come to fruition. If the FGE facilities are developed, this strategy could be reconsidered as a feasible alternative for a portion of the water supply needed.

A.1.1.5 Analyses Associated with Amendment

The WMSs and associated projects for this amendment have been evaluated in accordance with applicable statutes, rules, TWDB guidance, and the contractual requirements of the 2021 RWP. Technical analyses were performed to the same standards as those for the other recommended WMSs and projects in the 2021 Region F RWP, including but not limited to evaluations of supply development, environmental considerations, permitting and development, cost estimation, application of the RFWPG's approved WMS evaluation process, and identification of applicable Water User Groups (WUGs). All chapters and appendices of the RWP were reviewed and revised if applicable to reflect the amendment. These analyses and resultant changes are documented in the following report sections, attachments, and in the electronic data provided to TWDB along with this report. Due to changes in RWP requirements and TWDB processes subsequent to the adoption of the 2021 Region F RWP, this amendment packet does not include a revised project prioritization submittal.

A.2 CONSISTENCY WITH 31 TAC §357.51(C)(2)

This submittal documents that the amendment to incorporate the proposed WMS and project changes meet the requirements for minor amendments based upon TWDB guidance and the requirements of Title 31 Texas Administrative Code (TAC) §357.51(C)(2). The amendment was evaluated for consistency with each of the elements of 31 TAC§357.51(C)(2).

- 31 TAC§357.51(C)(2)(A) – *“does not result in over-allocation of an existing or planned source of water”*

The amendment does not impact source availability or result in the over-allocation of an existing or planned source of water.

- 31 TAC§357.51(C)(2)(B) – *“does not relate to a new reservoir”*

The amendment is associated with existing sources and does not relate to a new reservoir.

- 31 TAC§357.51(C)(2)(C) – *“does not increase unmet needs or produce new unmet needs in the adopted RWP unless the increase in unmet needs or new unmet needs is the result of removing infeasible WMSs and/or WMSPs in accordance with subsection (g) of this section and Texas Water Code §16.053(h)(10)”*

The amendment creates and increases unmet needs in the RWP; however, this is a result of removing infeasible WMSs in accordance with subsection (g) of this section and Texas Water Code §16.053(h)(10). This amendment summarizes the determination of why the proposed

WMSs and associated projects were deemed to be infeasible or were altered. In addition, this amendment summarizes changes to unmet needs as a result of the removal and changes to the proposed WMSs and associated projects.

- 31 TAC§357.51(C)(2)(D) – *“does not have a significant effect on instream flows, environmental flows or freshwater flows to bays and estuaries”*

The amendment does not have an effect on instream flows, environmental flows, or freshwater flows to bays and estuaries. The projects do not develop new surface water sources.

- 31 TAC§357.51(C)(2)(E) – *“does not have a significant substantive impact on water planning or previously adopted management strategies”*

The WMSs and associated projects do not modify or impact other recommended WMS or strategies or projects in the 2021 Region F RWP and do not have a significant substantive impact on the overall nature of the Plan or its ability to meet TWDB and statutory requirements.

- 31 TAC§357.51(C)(2)(F) – *“does not delete or change any legal requirements of the plan.”*

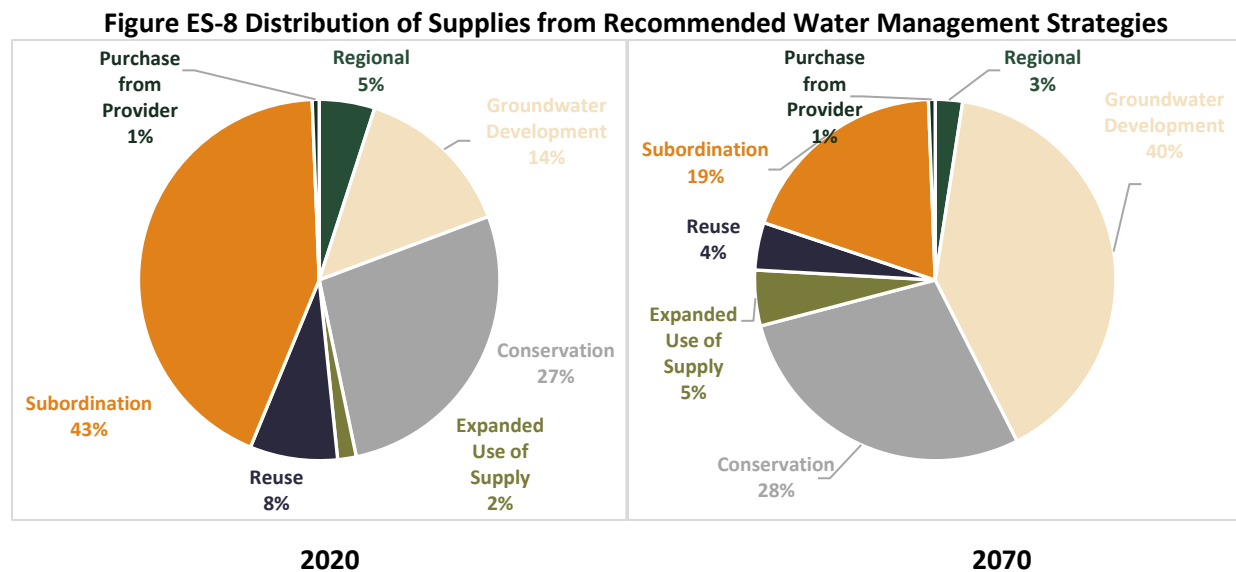
The amendment does not delete or change any legal requirement of the plan.

A.3 RWP MODIFICATIONS AND ADDITIONS TO VOLUME 1

A3.1 Changes to Executive Summary

A.3.1.1 Revision of Data for Figure ES-8, Distribution of Supplies from Recommended Water Management Strategies

Underlying data for **Figure ES-8** (page ES-10) is updated to reflect the changes in supply from WMS. The amended figure is presented below.



A.3.1.2 Revision to Table ES-5, Recommended Water Management Strategies

Table ES-5 (pages ES-11 through ES-20) is revised to change the online dates for the City of Junction and City of Balmorhea WMSs, and to move the City of Bronte’s alternative WMS to the list of recommended WMSs. The City of Bronte’s previously recommended WMS to develop Other Aquifer supplies in southwest Coke County was removed from this table and recategorized to be an alternative WMS. In addition, the Mitchell County SEP reuse WMS was removed. The revised table is presented below, with the added, changed and removed information indicated with yellow shading.

**Table ES-1
Recommended Water Management Strategies**

Entity	County Used	Expected Online	Capital Cost	First Decade Unit Cost (\$/ac-ft/yr)	Total Yield						Last Decade Unit Cost (\$/ac-ft/yr)
					2020	2030	2040	2050	2060	2070	
Brush Control											
BCWID	Multiple	2020	\$0	\$390	400	400	400	400	400	400	\$390
San Angelo	Multiple	2020	\$0	\$489	90	90	90	90	90	90	\$489
UCRA	Multiple	2020	\$0	\$850	60	60	60	60	60	60	\$850
Develop Alluvial Wells											
Menard	Menard	2020	\$13,835,000	\$1,741	1,000	1,000	1,000	1,000	1,000	1,000	\$768
Develop Cross Timbers Aquifer Supplies											
Mining	Brown	2020	\$2,440,000	\$948	210	210	210	210	210	210	\$129
Develop Edwards-Trinity Plateau Aquifer Supplies											
Junction	Kimble	2030	\$7,457,000	\$1,573	0	370	370	370	370	370	\$154
Bronte	Nolan	2030	\$4,232,000	\$1,871	0	178	178	178	178	178	\$197
Pecos County WCID #1	Pecos	2020	\$3,630,000	\$1,224	250	250	250	250	250	250	\$204
Balmorhea	Reeves	2030	\$1,948,000	\$1,053	0	150	150	150	150	150	\$140
Develop Ellenberger San Saba Aquifer Supplies											
Manufacturing	Kimble	2020	\$1,621,000	\$274	500	500	500	500	500	500	\$46
Develop Hickory Aquifer Supplies											
San Angelo	Ector	2030	\$55,491,000	\$2,321	0	1,040	3,040	3,040	3,040	3,040	\$1,037
Develop Other Aquifer Supplies											
Bronte	Coke	2020	\$23,694,000	\$2,424	800	800	800	800	800	800	\$340

Entity	County Used	Expected Online	Capital Cost	First Decade Unit Cost (\$/ac-ft/yr)	Total Yield						Last Decade Unit Cost (\$/ac-ft/yr)
					2020	2030	2040	2050	2060	2070	
Manufacturing	Scurry	2020	\$677,000	\$356	160	160	160	160	160	160	\$56
Develop Pecos Valley Aquifer Supplies											
Colorado River MWD	Multiple	2050	\$168,324,000	\$849	0	0	0	22,400	22,400	22,400	\$321
County-Other	Midland	2030	\$24,557,000	\$738	0	2,800	2,800	2,800	2,800	2,800	\$121
Mining	Pecos	2020	\$492,000	\$164	3,000	3,000	3,000	3,000	3,000	3,000	\$55
Mining	Reeves	2020	\$17,465,000	\$173	10,400	10,400	10,400	10,400	10,400	10,400	\$54
Grandfalls	Ward	2050	\$2,410,000	\$1,245	0	0	0	155	155	155	\$148
Dredging River Intake											
<i>Junction</i>	<i>Kimble</i>	<i>2020</i>	<i>\$8,487,000</i>	<i>\$2,388</i>	<i>0</i>	<i>250</i>	<i>250</i>	<i>250</i>	<i>250</i>	<i>250</i>	<i>\$0</i>
Groundwater Strategies											
Colorado River MWD	Multiple	2030	\$10,440,000	\$102	0	755	2,650	6,295	8,361	10,343	\$76
Pecos	Reeves	2020	\$43,107,000	\$427	0	8,960	8,960	8,960	8,960	8,960	\$89
Sonora	Sutton	2020	\$437,000	\$1,000	35	35	35	35	35	35	\$114
Irrigation Conservation											
Irrigation	Andrews	2020	\$1,548,000	\$21	1,018	2,037	2,037	2,037	2,037	2,037	\$0
Irrigation	Borden	2020	\$224,000	\$21	147	295	295	295	295	295	\$0
Irrigation	Brown	2020	\$494,000	\$21	406	650	650	650	650	650	\$0
Irrigation	Coke	2020	\$63,000	\$21	34	69	83	83	83	83	\$0
Irrigation	Coleman	2020	\$35,000	\$21	23	47	47	47	47	47	\$0
Irrigation	Concho	2020	\$410,000	\$21	245	490	539	539	539	539	\$0

Entity	County Used	Expected Online	Capital Cost	First Decade Unit Cost (\$/ac-ft/yr)	Total Yield						Last Decade Unit Cost (\$/ac-ft/yr)
					2020	2030	2040	2050	2060	2070	
Irrigation	Crockett	2020	\$15,000	\$21	7	14	20	20	20	20	\$0
Irrigation	Ector	2020	\$86,000	\$21	38	76	113	113	113	113	\$0
Irrigation	Glasscock	2020	\$1,558,000	\$21	2,050	2,050	2,050	2,050	2,050	2,050	\$0
Irrigation	Howard	2020	\$575,000	\$21	344	688	757	757	757	757	\$0
Irrigation	Irion	2020	\$120,000	\$21	53	105	158	158	158	158	\$0
Irrigation	Kimble	2020	\$242,000	\$21	133	266	319	319	319	319	\$0
Irrigation	Martin	2020	\$4,160,000	\$21	1,825	3,649	5,474	5,474	5,474	5,474	\$0
Irrigation	Mason	2020	\$566,000	\$21	248	497	745	745	745	745	\$0
Irrigation	McCulloch	2020	\$265,000	\$21	116	232	349	349	349	349	\$0
Irrigation	Menard	2020	\$418,000	\$21	183	366	549	549	549	549	\$0
Irrigation	Midland	2020	\$2,064,000	\$21	905	1,811	2,716	2,716	2,716	2,716	\$0
Irrigation	Mitchell	2020	\$194,000	\$21	256	256	256	256	256	256	\$0
Irrigation	Pecos	2020	\$16,341,000	\$21	7,167	14,335	21,502	21,502	21,502	21,502	\$0
Irrigation	Reagan	2020	\$2,512,000	\$21	1,102	2,203	3,305	3,305	3,305	3,305	\$0
Irrigation	Reeves	2020	\$6,719,000	\$21	2,947	5,894	8,841	8,841	8,841	8,841	\$0
Irrigation	Runnels	2020	\$283,000	\$21	155	311	373	373	373	373	\$0
Irrigation	Schleicher	2020	\$83,000	\$21	91	109	109	109	109	109	\$0
Irrigation	Scurry	2020	\$747,000	\$21	378	756	983	983	983	983	\$0
Irrigation	Sterling	2020	\$102,000	\$21	45	90	135	135	135	135	\$0
Irrigation	Sutton	2020	\$128,000	\$21	56	112	168	168	168	168	\$0

Entity	County Used	Expected Online	Capital Cost	First Decade Unit Cost (\$/ac-ft/yr)	Total Yield						Last Decade Unit Cost (\$/ac-ft/yr)
					2020	2030	2040	2050	2060	2070	
Irrigation	Tom Green	2020	\$3,875,000	\$21	2,125	4,249	5,099	5,099	5,099	5,099	\$0
Irrigation	Upton	2020	\$1,186,000	\$21	520	1,040	1,560	1,560	1,560	1,560	\$0
Irrigation	Ward	2020	\$360,000	\$21	158	316	474	474	474	474	\$0
Irrigation	Winkler	2020	\$400,000	\$21	175	351	526	526	526	526	\$0
Mining Conservation (Recycling)											
Mining	Andrews	2020	\$5,540,000	\$632	277	260	222	176	135	104	\$0
Mining	Borden	2020	\$780,000	\$1,117	29	39	33	21	10	5	\$0
Mining	Brown	2020	\$1,340,000	\$654	66	66	67	67	66	66	\$0
Mining	Coke	2020	\$400,000	\$632	20	20	18	16	14	12	\$0
Mining	Coleman	2020	\$100,000	\$632	5	4	4	4	3	3	\$0
Mining	Concho	2020	\$400,000	\$632	20	20	18	15	13	12	\$0
Mining	Crane	2020	\$720,000	\$1,173	26	35	36	29	22	17	\$0
Mining	Crockett	2020	\$6,300,000	\$632	315	315	43	24	7	3	\$0
Mining	Ector	2020	\$600,000	\$733	28	30	27	22	18	15	\$0
Mining	Glasscock	2020	\$4,960,000	\$632	248	248	189	134	88	63	\$0
Mining	Howard	2020	\$2,860,000	\$632	143	143	101	59	25	13	\$0
Mining	Irion	2020	\$6,440,000	\$632	322	322	231	28	14	7	\$0
Mining	Kimble	2020	\$20,000	\$632	1	1	1	1	1	1	\$0
Mining	Loving	2020	\$10,500,000	\$632	525	525	462	378	301	238	\$0
Mining	Martin	2020	\$6,040,000	\$632	302	302	227	49	27	14	\$0

Entity	County Used	Expected Online	Capital Cost	First Decade Unit Cost (\$/ac-ft/yr)	Total Yield						Last Decade Unit Cost (\$/ac-ft/yr)
					2020	2030	2040	2050	2060	2070	
Mining	Mason	2020	\$860,000	\$632	43	40	30	24	19	16	\$0
Mining	McCulloch	2020	\$7,500,000	\$632	375	351	279	236	203	176	\$0
Mining	Menard	2020	\$920,000	\$632	46	45	40	35	30	26	\$0
Mining	Midland	2020	\$8,900,000	\$632	445	445	344	231	46	32	\$0
Mining	Mitchell	2020	\$620,000	\$970	25	31	27	21	16	12	\$0
Mining	Pecos	2020	\$10,780,000	\$632	539	539	539	434	67	52	\$0
Mining	Reagan	2020	\$8,900,000	\$632	445	445	323	62	24	8	\$0
Mining	Reeves	2020	\$17,640,000	\$632	882	882	847	693	546	434	\$0
Mining	Runnels	2020	\$220,000	\$632	11	11	10	9	8	7	\$0
Mining	Schleicher	2020	\$620,000	\$903	26	31	24	16	10	6	\$0
Mining	Scurry	2020	\$680,000	\$1,617	20	32	34	25	17	12	\$0
Mining	Sterling	2020	\$800,000	\$931	33	40	34	22	11	6	\$0
Mining	Sutton	2020	\$640,000	\$1,595	19	30	32	24	16	11	\$0
Mining	Tom Green	2020	\$980,000	\$792	44	45	47	47	48	49	\$0
Mining	Upton	2020	\$2,020,000	\$632	101	101	80	53	32	22	\$0
Mining	Ward	2020	\$1,600,000	\$632	80	80	71	55	38	25	\$0
Mining	Winkler	2020	\$980,000	\$1,315	33	49	42	32	22	16	\$0
Municipal Conservation											
Airline Mobile Home Park	Midland	2020	\$0	\$1,263	7	7	8	9	10	10	\$1,134
Andrews	Andrews	2020	\$0	\$952	45	55	96	111	129	150	\$592

Entity	County Used	Expected Online	Capital Cost	First Decade Unit Cost (\$/ac-ft/yr)	Total Yield						Last Decade Unit Cost (\$/ac-ft/yr)
					2020	2030	2040	2050	2060	2070	
County-Other	Andrews	2020	\$0	\$1,080	14	15	17	18	20	21	\$821
Ballinger	Runnels	2020	\$0	\$1,107	12	12	12	12	12	12	\$1,101
Bangs	Brown	2020	\$0	\$1,221	8	8	8	8	8	8	\$2,189
Balmorhea	Reeves	2020	\$0	\$2,472	2	2	2	2	2	2	\$1,214
Barstow	Ward	2020	\$0	\$3,068	1	1	1	1	1	1	\$2,731
Big Lake	Reagan	2020	\$0	\$1,139	10	12	12	13	13	14	\$1,079
Big Spring	Howard	2020	\$0	\$557	131	138	140	139	139	139	\$620
Brady	McCulloch	2020	\$0	\$988	18	18	19	19	19	19	\$930
Bronte	Coke	2020	\$0	\$1,647	3	3	3	3	3	3	\$1,647
Brookesmith SUD	Brown	2020	\$0	\$705	25	25	25	25	25	25	\$688
Brownwood	Brown	2020	\$0	\$937	61	91	91	91	91	91	\$735
Coahoma	Howard	2020	\$0	\$1,222	8	8	8	8	8	8	\$1,203
Coleman	Coleman	2020	\$0	\$1,065	15	15	15	15	15	15	\$1,061
County-Other	Coleman	2020	\$0	\$5,095	1	1	1	1	1	1	\$1,138
Coleman County SUD	Coleman	2020	\$0	\$1,144	9	9	9	9	9	9	\$5,161
Colorado City	Mitchell	2020	\$0	\$1,054	16	18	18	18	18	19	\$938
Concho Rural WSC	Tom Green	2020	\$0	\$894	20	21	22	23	24	24	\$1,821
County-Other	Concho	2020	\$0	\$1,836	3	3	3	3	3	3	\$714
Crockett County WCID	Crockett	2020	\$0	\$1,106	12	13	13	13	13	13	\$1,070
Crane	Crane	2020	\$0	\$1,120	11	12	13	13	14	14	\$1,083

Entity	County Used	Expected Online	Capital Cost	First Decade Unit Cost (\$/ac-ft/yr)	Total Yield						Last Decade Unit Cost (\$/ac-ft/yr)
					2020	2030	2040	2050	2060	2070	
DADS SLC	Tom Green	2020	\$0	\$4,116	1	1	1	1	1	1	\$4,116
Early	Brown	2020	\$0	\$1,176	9	9	9	9	9	9	\$1,170
Ector County Utility District	Ector	2020	\$0	\$292	60	84	94	125	137	149	\$598
Eden	Concho	2020	\$0	\$1,541	4	4	4	4	4	4	\$1,518
El Dorado	Schleicher	2020	\$0	\$1,283	6	6	6	6	6	6	\$1,283
Fort Stockton	Pecos	2020	\$0	\$484	36	39	42	44	46	48	\$363
Goodfellow AFB	Tom Green	2020	\$0	\$1,222	8	9	9	10	10	11	\$1,123
Grandfalls	Ward	2020	\$0	\$2,804	1	1	1	1	2	2	\$2,509
Greater Gardendale WSC	Ector	2020	\$0	\$1,108	12	13	15	17	19	20	\$859
Greenwood Water	Midland	2020	\$0	\$1,716	3	3	4	4	4	5	\$1,430
Iraan	Pecos	2020	\$0	\$1,501	4	4	5	5	5	5	\$1,351
Junction	Kimble	2020	\$0	\$1,206	8	8	8	8	8	8	\$1,203
Kermit	Winkler	2020	\$0	\$964	18	18	19	19	19	19	\$916
Loraine	Mitchell	2020	\$0	\$2,138	2	2	2	2	2	2	\$2,039
Madera Valley WSC	Reeves	2020	\$0	\$1,425	5	5	5	6	6	6	\$1,330
Mason	Mason	2020	\$0	\$1,278	7	7	7	7	7	7	\$1,278
McCamey	Upton	2020	\$0	\$1,264	7	7	8	8	8	8	\$1,203
Menard	Menard	2020	\$0	\$1,442	5	5	5	5	5	5	\$1,442
Mertzon	Irion	2020	\$0	\$1,886	3	3	3	3	3	3	\$1,875

Entity	County Used	Expected Online	Capital Cost	First Decade Unit Cost (\$/ac-ft/yr)	Total Yield						Last Decade Unit Cost (\$/ac-ft/yr)
					2020	2030	2040	2050	2060	2070	
Midland	Midland	2020	\$0	\$436	631	755	816	882	944	1012	\$428
Miles	Runnels	2020	\$0	\$1,730	3	3	3	3	3	3	\$1,614
Mitchell County Utility	Mitchell	2020	\$0	\$1,407	5	5	5	5	5	6	\$1,068
Millersview-Doole WSC	Tom Green	2020	\$0	\$1,088	13	14	14	14	14	15	\$1,347
Monahans	Ward	2020	\$0	\$763	23	24	25	26	27	27	\$645
North Runnels WSC	Runnels	2020	\$0	\$1,407	4	4	4	4	4	4	\$1,375
Odessa	Ector	2020	\$0	\$440	568	680	752	829	905	990	\$427
Pecos	Reeves	2020	\$0	\$607	29	31	33	34	35	35	\$498
Pecos WCID	Pecos	2020	\$0	\$1,166	9	10	11	11	12	12	\$1,716
Pecos County Fresh Water	Pecos	2020	\$0	\$1,985	2	2	3	3	3	3	\$1,099
Rankin	Upton	2020	\$0	\$1,848	3	3	3	3	3	3	\$1,690
Richland SUD	McCulloch	2020	\$0	\$1,712	3	3	3	3	3	3	\$1,665
Robert Lee	Coke	2020	\$0	\$1,672	3	3	3	3	3	3	\$1,672
County-Other	Runnels	2020	\$0	\$1,953	2	2	2	2	2	2	\$1,988
San Angelo	Tom Green	2020	\$0	\$448	459	532	558	592	629	668	\$444
Snyder	Scurry	2020	\$0	\$957	41	47	51	55	59	93	\$1,606
Santa Anna	Coleman	2020	\$0	\$1,623	3	4	4	4	4	4	\$589
County-Other	Scurry	2020	\$0	\$863	20	22	24	26	28	30	\$720
Sonora	Sutton	2020	\$0	\$1,187	9	9	9	10	10	10	\$1,152

Entity	County Used	Expected Online	Capital Cost	First Decade Unit Cost (\$/ac-ft/yr)	Total Yield						Last Decade Unit Cost (\$/ac-ft/yr)
					2020	2030	2040	2050	2060	2070	
Southwest Sandhills WSC	Ward	2020	\$0	\$863	20	22	24	26	28	30	\$589
Stanton	Martin	2020	\$0	\$1,199	8	9	10	10	11	11	\$1,124
Sterling City	Sterling	2020	\$0	\$1,759	3	3	3	3	3	3	\$1,718
Tom Green County FWSD 3	Tom Green	2020	\$0	\$1,616	3	4	4	4	5	5	\$1,409
Wickett	Ward	2020	\$0	\$2,487	2	2	2	2	2	2	\$2,240
Wink	Winkler	2020	\$0	\$1,665	3	4	4	4	4	5	\$1,449
Winters	Runnels	2020	\$0	\$1,191	17	12	9	9	9	9	\$1,183
Zephyr WSC	Brown	2020	\$0	\$1,091	13	13	13	13	13	13	\$1,087
New or Additional Treatment											
<i>Bronte</i>	<i>Coke</i>	<i>2030</i>	<i>\$10,270,000</i>	<i>\$1,720</i>	<i>0</i>	<i>800</i>	<i>800</i>	<i>800</i>	<i>800</i>	<i>800</i>	<i>\$816</i>
<i>Odessa</i>	<i>Ector</i>	<i>2030</i>	<i>\$83,062,000</i>	<i>\$1,111</i>	<i>0</i>	<i>15,700</i>	<i>15,700</i>	<i>15,700</i>	<i>15,700</i>	<i>15,700</i>	<i>\$738</i>
<i>Big Spring</i>	<i>Howard</i>	<i>2030</i>	<i>\$104,651,000</i>	<i>\$1,128</i>	<i>0</i>	<i>11,210</i>	<i>11,210</i>	<i>11,210</i>	<i>11,210</i>	<i>11,210</i>	<i>\$471</i>
Brady	McCulloch	2020	\$29,719,000	\$2,069	1,200	1,200	1,200	1,200	1,200	1,200	\$327
Mason	Mason	2020	\$2,605,000	\$856	700	700	700	700	700	700	\$594
Midland	Multiple	2040	\$60,804,000	\$1,701	0	0	5,899	6,101	6,235	6,327	\$1,025
Pecos	Reeves	2030	\$27,680,000	\$754	0	3,360	3,360	3,360	3,360	3,360	\$319
Rehabilitation/Replacement of Infrastructure											
<i>Bronte</i>	<i>Coke</i>	<i>2030</i>	<i>\$9,896,000</i>	<i>\$1,748</i>	<i>0</i>	<i>450</i>	<i>450</i>	<i>450</i>	<i>450</i>	<i>450</i>	<i>\$202</i>
<i>Pecos County WCID #1</i>	<i>Pecos</i>	<i>2020</i>	<i>\$26,102,000</i>	<i>\$2,767</i>	<i>750</i>	<i>750</i>	<i>750</i>	<i>750</i>	<i>750</i>	<i>750</i>	<i>\$317</i>

Entity	County Used	Expected Online	Capital Cost	First Decade Unit Cost (\$/ac-ft/yr)	Total Yield						Last Decade Unit Cost (\$/ac-ft/yr)
					2020	2030	2040	2050	2060	2070	
Reuse											
Steam Electric Power	Mitchell	2020	\$8,642,000	\$1,428	500	500	500	500	500	500	\$212
San Angelo	Multiple	2020	\$116,861,000	\$1,250	8,400	8,400	8,400	8,400	8,400	8,400	\$269
Pecos	Reeves	2030	\$29,541,000	\$4,961		925	925	925	925	925	\$2,443
Pecos	Reeves	2020	\$8,707,000	\$1,286	560	560	560	560	560	560	\$191
Subordination											
Ballinger	Runnels	2020	\$0	\$0	794	751	750	748	753	791	\$0
County-Other	Runnels	2020	\$0	\$0	23	21	19	18	18	19	\$0
North Runnels WSC	Runnels	2020	\$0	\$0	86	86	87	87	87	89	\$0
Brady	McCulloch	2020	\$0	\$0	841	841	841	841	841	841	\$0
Steam Electric Power	Mitchell	2020	\$0	\$0	1,170	1,156	1,142	1,128	1,114	1,100	\$0
Junction	Kimble	2020	\$0	\$0	250	250	250	250	250	250	\$0
Manufacturing	Kimble	2020	\$0	\$0	228	228	228	228	228	228	\$0
Abilene ^a	Taylor, Jones	2020	\$0	\$0	329	359	391	421	453	483	\$0
Midland ^a	Midland	2020	\$0	\$0	2,173	359	391	421	453	483	\$0
Millersview-Doole WSC	Tom Green	2020	\$0	\$0	52	0	0	0	9	62	\$0
Odessa	Ector	2020	\$0	\$0	2,451	0	0	3,492	7,263	11,493	\$0
Ector County Utility District	Ector	2020	\$0	\$0	234	0	0	332	694	1,097	\$0
Irrigation	Ector	2020	\$0	\$0	157	0	0	162	312	449	\$0

Entity	County Used	Expected Online	Capital Cost	First Decade Unit Cost (\$/ac-ft/yr)	Total Yield						Last Decade Unit Cost (\$/ac-ft/yr)
					2020	2030	2040	2050	2060	2070	
Irrigation	Midland	2020	\$0	\$0	3	0	0	2	6	8	\$0
Manufacturing	Ector	2020	\$0	\$0	186	0	0	199	381	551	\$0
Steam Electric Power	Ector	2020	\$0	\$0	109	0	0	114	219	316	\$0
Big Spring	Howard	2020	\$0	\$0	611	0	0	647	1,233	1,785	\$0
Coahoma	Howard	2020	\$0	\$0	51	0	0	56	105	152	\$0
Manufacturing	Howard	2020	\$0	\$0	147	0	0	153	293	424	\$0
Steam Electric Power	Howard	2020	\$0	\$0	21	0	0	22	40	59	\$0
Snyder	Scurry	2020	\$0	\$0	194	0	0	256	524	814	\$0
County-Other	Scurry	2020	\$0	\$0	29	0	0	31	59	85	\$0
Rotan	Fisher	2020	\$0	\$0	18	0	0	17	32	46	\$0
Stanton	Martin	2020	\$0	\$0	31	0	0	33	62	90	\$0
Irrigation	Coleman	2020	\$0	\$0	400	400	400	400	400	400	\$0
Coleman	Coleman	2020	\$0	\$0	1,319	1,296	1,276	1,255	1,227	1,200	\$0
Coleman County SUD	Coleman	2020	\$0	\$0	227	225	218	214	215	215	\$0
County-Other	Coleman	2020	\$0	\$0	24	22	22	21	21	21	\$0
Manufacturing	Coleman	2020	\$0	\$0	2	2	2	2	2	2	\$0
County-Other	Tom Green	2020	\$0	\$0	70	70	70	70	70	70	\$0
Bronte	Coke	2020	\$0	\$0	212	210	209	207	207	207	\$0
Robert Lee	Coke	2020	\$0	\$0	237	239	240	240	240	240	\$0
San Angelo ^a	Tom Green	2020	\$0	\$0	1,875	1,819	1,766	1,709	1,656	1,600	\$0

Entity	County Used	Expected Online	Capital Cost	First Decade Unit Cost (\$/ac-ft/yr)	Total Yield						Last Decade Unit Cost (\$/ac-ft/yr)
					2020	2030	2040	2050	2060	2070	
Upper Colorado River Authority	Tom Green	2020	\$0	\$0	42	37	33	30	26	23	\$0
Goodfellow Air Force Base	Tom Green	2020	\$0	\$0	44	42	40	38	35	33	\$0
Manufacturing	Tom Green	2020	\$0	\$0	37	36	32	29	26	22	\$0
Winters	Runnels	2020	\$0	\$0	100	99	98	98	98	97	\$0
Irrigation	Menard	2020	\$0	\$0	537	537	537	537	537	537	\$0
Menard	Menard	2020	\$0	\$0	1,000	1,000	1,000	1,000	1,000	1,000	\$0
Brady Creek (non-allocated)	McCulloch	2020	\$0	\$0	1,109	1,069	1,029	989	949	909	\$0
BCWID (non-allocated)	Brown	2020	\$0	\$0	5,440	5,466	5,492	5,518	5,544	5,570	\$0
CRMWD (non-allocated)	Tom Green	2020	\$0	\$0	19,749	19,911	18,533	13,002	7,245	972	\$0
Oak Creek (non-allocated)	Coke	2020	\$0	\$0	577	540	503	468	431	394	\$0
Lake Colorado City (non-allocated)	Mitchell	2020	\$0	\$0	1,800	1,750	1,700	1,650	1,600	1,550	\$0
Odessa (Future Sales)	Ector, Midland	2020	\$0	\$0	3,930	3,930	3,930	3,930	3,930	3,930	\$0
Manufacturing, Howard (Future Sales)	Howard	2030	\$0	\$0	0	500	500	500	500	500	\$0
Greater Gardendale WSC (Future Sales)	Ector	2030	\$0	\$0	0	375	445	445	445	445	\$0
County-Other (Future Sales)	Ector	2030	\$0	\$0	0	1,200	2,500	2,500	2,500	2,500	\$0

Entity	County Used	Expected Online	Capital Cost	First Decade Unit Cost (\$/ac-ft/yr)	Total Yield						Last Decade Unit Cost (\$/ac-ft/yr)
					2020	2030	2040	2050	2060	2070	
County-Other (Future Sales)	Scurry	2020	\$0	\$0	373	414	447	491	547	607	\$0
Voluntary Transfer (Purchase)											
Robert Lee	Coke	2020	\$0	\$0	80	80	80	80	80	80	\$0
Concho Rural WSC	Ector	2020	\$0	\$0	50	50	50	50	50	50	\$0
Greater Gardendale WSC	Ector	2020	\$6,078,000	\$3,730	0	375	445	445	445	445	\$2,769
Winters	Runnels	2020	\$974,000	\$668	212	212	212	212	212	212	\$355
County-Other	Scurry	2020	\$0	\$0	373	414	447	491	547	607	\$0
Water Audits and Leak Repairs											
Brookesmith SUD	Brown	2020	\$1,737,000	\$1,509	80	80	78	77	77	77	\$1,584
Coleman	Coleman	2020	\$1,074,800	\$1,282	59	58	57	57	57	57	\$1,340
Millersview-Doole WSC	Tom Green	2020	\$965,800	\$1,045	65	66	65	66	67	68	\$1,076
Sonora	Sutton	2020	\$679,900	\$451	106	112	114	116	117	118	\$438
Zephyr WSC	Brown	2020	\$944,700	\$3,498	19	19	18	18	18	18	\$3,732
Weather Modification											
Irrigation	Crocket	2020	\$0	\$0.47	1	1	1	1	1	1	\$0.47
Irrigation	Irion	2020	\$0	\$0.21	202	202	202	202	202	202	\$0.21
Irrigation	Pecos	2020	\$0	\$5.45	106	106	106	106	106	106	\$5.45
Irrigation	Reagan	2020	\$0	\$0.19	1,869	1,869	1,869	1,869	1,869	1,869	\$0.19
Irrigation	Reeves	2020	\$0	\$1.13	326	326	326	326	326	326	\$1.13

Entity	County Used	Expected Online	Capital Cost	First Decade Unit Cost (\$/ac-ft/yr)	Total Yield						Last Decade Unit Cost (\$/ac-ft/yr)
					2020	2030	2040	2050	2060	2070	
Irrigation	Schleicher	2020	\$0	\$0.23	275	275	275	275	275	275	\$0.23
Irrigation	Sterling	2020	\$0	\$0.39	48	48	48	48	48	48	\$0.39
Irrigation	Sutton	2020	\$0	\$0.45	34	34	34	34	34	34	\$0.45
Irrigation	Tom Green	2020	\$0	\$0.44	2,007	2,007	2,007	2,007	2,007	2,007	\$0.44
Irrigation	Ward	2020	\$0	\$0.57	259	259	259	259	259	259	\$0.57
West Texas Water Partnership^b											
Abilene	Multiple	2030	\$549,093,000	\$1,783	0	8,400	8,400	8,400	8,400	8,400	\$403
Midland					0	15,000	15,000	15,000	15,000	15,000	
San Angelo					0	5,000	5,000	5,000	5,000	5,000	

Note: Grey italics indicates projects that are needed to access supplies from other strategies and are not included in the total to avoid double counting.

a. Subordination supply is based on a contract for 16.54% of the safe yield of Lake Ivie. This supply changes with the implementation of the West Texas Water Partnership strategy. As part of this strategy, the Lake Ivie supplies may be reallocated among the cities of Abilene, Midland, and San Angelo. However, this has not yet occurred, so the current subordination yields from these contract amounts are shown in the table above. The Partnership will follow up on initial conversations with the CRMWD to explore necessary methodologies and agreements to implement a cooperative use strategy of the Partnership's collective Ivie supplies. Meetings between the parties are anticipated in the late fall/early winter of 2020/2021.

b. Capital and unit costs for the West Texas Water Partnership will be shared between the partnership (Abilene, Midland, and San Angelo).

A.3.1.3 Removal of Project in Table ES-6, Alternative Water Management Strategies

Table ES-6 (pages ES-21 through ES-22) is revised to remove the City of Bronte WMS, which was reclassified to be recommended. In the table, this WMS is listed under Robert Lee, but in other sections throughout the RWP, this WMS is listed for both Bronte and Robert Lee. In addition, the City of Bronte’s previously recommended WMS to develop Other Aquifer supplies in Coke County was added to this table as an alternative strategy. The revised table is presented below, with the added information indicated with yellow shading.

Table ES-2
Alternative Water Management Strategies

Entity	County Used	Expected Implementation Date	Capital Cost	First Decade Unit Cost (\$/ac-ft/yr)	Total Yield						Last Decade Unit Cost (\$/ac-ft/yr)
					2020	2030	2040	2050	2060	2070	
Desalination											
San Angelo	Tom Green	2030	\$70,709,000	\$1,062	0	11,210	11,210	11,210	11,210	11,210	\$618
Develop Capitan Reef Complex Aquifer Supplies											
Odessa	Ward	2040	\$154,165,000	\$2,175	0	0	8,400	8,400	8,400	8,400	\$884
Develop Dockum Aquifer Supplies											
Colorado City	Mitchell	2020	\$3,744,000	\$1,824	170	170	170	170	170	170	\$276
Develop Edwards-Trinity Plateau Aquifer Supplies											
Andrews	Andrews	2020	\$24,927,000	\$891	2,600	2,600	2,600	2,600	2,600	2,600	\$217
County-Other	Andrews	2020	\$751,000	\$252	250	250	250	250	250	250	\$40
San Angelo	Schleicher	2040	\$102,100,000	\$1,800	0	0	4,500	4,500	4,500	4,500	\$209
Livestock	Andrews	2020	\$327,000	\$433	60	60	60	60	60	60	\$50
Manufacturing	Andrews	2020	\$591,000	\$243	210	210	210	210	210	210	\$43
Robert Lee	Nolan	2030	\$4,154,000	\$4,293	0	75	75	75	75	75	\$400
Robert Lee	Tom Green	2030	\$7,272,000	\$3,756	0	160	160	160	160	160	\$556
Develop Ellenburger-San Saba Aquifer Supplies											
BCWID #1	Brown	2030	\$70,199,000	\$1,754	0	5,600	5,600	5,600	5,600	5,600	\$872

Entity	County Used	Expected Implementation Date	Capital Cost	First Decade Unit Cost (\$/ac-ft/yr)	Total Yield						Last Decade Unit Cost (\$/ac-ft/yr)
					2020	2030	2040	2050	2060	2070	
Develop Hickory Aquifer Supplies											
Menard	Menard	2030	\$3,287,000	\$1,320	0	200	200	200	200	200	\$165
Develop Ogallala Aquifer Supplies											
Andrews	Andrews	2020	\$15,663,000	\$496	2,810	2,810	2,810	2,810	2,810	2,810	\$104
Great Plains	Andrews, Gaines	2020	\$380,000	\$190	200	200	200	200	200	200	\$55
Develop Other Aquifer Supplies											
Bronte	Runnels	2030	\$23,694,000	\$2,424	0	800	800	800	800	800	\$340
Bronte	Coke	2030	\$23,694,000	\$2,424	0	800	800	800	800	800	\$340
Develop Additional Groundwater Supplies											
CRMWD	Western Region F Counties	2040	\$147,558,000	\$1,348	0	0	10,000	10,000	10,000	10,000	\$310
Odessa	Pecos	2040	\$826,808,000	\$3,249	0	0	11,200	28,000	28,000	28,000	\$1,172
San Angelo	Pecos	2040	\$327,576,000	\$2,604	0	0	10,800	10,800	10,800	10,800	\$470
New or Additional Water Treatment											
Robert Lee	Coke	2030	\$6,541,000	\$2,657	0	335	335	335	335	335	\$1,284
Potable Reuse with Aquifer Storage and Recovery											
Pecos	Reeves	2030	\$34,456,000	\$6,788	0	695	695	695	695	695	\$3,301

Entity	County Used	Expected Implementation Date	Capital Cost	First Decade Unit Cost (\$/ac-ft/yr)	Total Yield						Last Decade Unit Cost (\$/ac-ft/yr)
					2020	2030	2040	2050	2060	2070	
Regional Water Management Strategies											
Bronte, Ballinger, Winters, Robert Lee (Lake Brownwood)	Coke, Runnels	2040	\$115,443,000	\$3,904	0	0	2,802	2,802	2,802	2,802	\$1,005
Bronte, Ballinger, Winters, Robert Lee (Lake Fort Phantom Hill)	Coke, Runnels	2040	\$103,328,000	\$7,606	0	0	1,155	1,155	1,155	1,155	\$1,312
Voluntary Transfer (Purchase)											
Greater Gardendale WSC	Ector	2030	\$2,946,000	\$2,355	0	445	445	445	445	445	\$1,890
Midland	Midland	2020	\$0	\$0	4000	4000	4000	4000	4000	4000	\$0
Grandfalls	Ector	2050	\$0	\$0	0	0	0	155	155	155	\$0
West Texas Water Partnership ^a											
Abilene	Multiple	2030	\$327,504,000	\$1,165	0	8,400	8,400	8,400	8,400	8,400	\$342
Midland					0	15,000	15,000	15,000	15,000	15,000	
San Angelo					0	5,000	5,000	5,000	5,000	5,000	

Note: Grey italics indicates projects that are needed to access supplies from other strategies and are not included in the total to avoid double counting.

** Capital and unit costs for the West Texas Water Partnership will be shared between the partners (Abilene, Midland, and San Angelo).*

A.3.1.4 Revisions to Table ES-7, Unmet Needs Summary

Table ES-7 (page ES-23) is revised to reflect the unmet needs as a result of the proposed revisions. The revised online dates for the strategies for the Cities of Bronte, Junction, and Balmorhea result in an increased unmet need of 1,079 acre-feet in 2020 for municipal use. There are no unmet municipal needs for these WUGs after 2020. The removal of the Mitchell County reuse sales for SEP increased the unmet need for SEP by 500 acre-feet each decade. The SEP unmet need may be considerably less since much of the demand is for facilities that are not currently constructed and operating. There are no changes to the unmet needs for manufacturing, livestock, Irrigation, and mining. The revised table ES-7 is presented below, with the updated information indicated with yellow shading.

Table ES-3
Unmet Needs Summary (acre-feet per year)

Water User	2020	2030	2040	2050	2060	2070
Municipal	1,079	519	819	1,457	2,192	3,068
Manufacturing	31	59	87	134	174	209
Livestock	9	17	25	39	50	60
Irrigation	10,686	13,151	16,733	18,660	22,157	24,739
Mining	5,956	6,052	3,219	1,717	895	894
Steam Electric Power	11,508	11,522	11,536	11,550	11,564	11,578
Total	29,269	31,320	32,419	33,557	37,032	40,548

A3.2 Changes to Chapter 5 – Water Management Strategies

A.3.2.1 Revisions to Section 5E.4.1, *Bronte*

Section 5E.4.1 summarizes the recommended water supply plan for the City of Bronte. This section was updated to include the Nolan County groundwater as a recommended strategy and change the Coke County groundwater to an alternative strategy. Specifically, the call-out box (green) on page 5E-14 is revised to reflect the replaced recommended strategy. Specific changes are indicated in yellow shading.

Bronte Recommended Strategies

- *Municipal Conservation*
- *Subordination (Oak Creek Reservoir)*
- *Rehabilitation and Upsizing of Oak Creek Pipeline*
- *Water Treatment Plant Expansion*
- ~~*Develop Other Aquifer Supplies in Southwest Coke County*~~
- *Develop Edwards-Trinity Plateau Aquifer Supplies in Nolan County*

In addition, the last paragraph on page 5E-14 is replaced with the description of the amended recommended Nolan County groundwater WMS. The entire added paragraph is indicated in yellow shading.

Develop Edwards-Trinity Plateau Aquifer in Nolan County

Bronte is considering drilling new wells in Nolan County for the purpose of providing additional supply. It is estimated that the wells would produce a yearly production of 178 acre-feet. A 15-mile transmission pipeline would be needed to deliver these supplies to the City. Capital costs are estimated at \$4.23 million.

Revision to Table 5E-13, Recommended Water Strategies for Bronte

Table 5E-13 (page 5E-15) is revised to replace the project and associated details to the overview of key projects. The revised table is presented below, with the replaced information indicated with yellow shading. Also, the available supply from subordination in 2020 is corrected to reflect the supply from subordination is not available until the Oak Creek pipeline is rehabilitated.

**Table 5E-1
Recommended Water Strategies for Bronte**

	Capital Cost	2020	2030	2040	2050	2060	2070
Demand ^a		577	573	569	566	566	566
Existing Supply (Groundwater)		129	125	121	120	120	120
Shortage		448	448	448	446	446	446
Recommended Strategies							
Subordination (Oak Creek Reservoir)	\$0	0	448	448	446	446	446
Municipal Conservation		3	3	3	3	3	3
Oak Creek Pipeline Rehabilitation*	\$9,896,000	0	450	450	450	450	450
Water Treatment Plant Expansion*	\$10,270,000	0	800	800	800	800	800
Develop Other Aquifer Supplies in Southwest Coke County	\$23,694,000	800	800	800	800	800	800
Develop Edwards-Trinity Plateau Supplies in Nolan County	\$4,232,000	0	178	178	178	178	178
TOTAL	\$24,398,000	3	629	629	627	627	627

a. Demands shown include demands for the City of Bronte and their customers (Robert Lee and Coke County-Other).

*This strategy is for infrastructure projects required to access the subordination supplies Oak Creek pipeline supplies and is not included in the total to avoid double counting.

The text pertaining to the alternative WMS for Bronte is also modified to reflect the replacement of the Coke County groundwater project with the Nolan County groundwater WMS. The first bulleted list of page 5E-15 is revised as follows. Specific changes are indicated in yellow shading.

Alternative Water Management Strategies for Bronte include:

- *Regional System from Lake Brownwood to Runnels and Coke Counties*
- *Regional System from Fort Phantom Hill to Runnels and Coke Counties*
- ~~*Develop Edwards-Trinity Plateau Supplies in Nolan County*~~
- *Develop Other Aquifer Supplies in Runnels County*
- *Develop Other Aquifer Supplies in southwest Coke County*

A.3.2.2 Revisions to Section 5E.4.3, *Coke County Summary*

Table 5E-15 (page 5E-17) is revised to adjust the recommended water management strategies for the City of Bronte. The recommended WMS to develop Other Aquifer supplies in southwest Coke County was removed and the recommended WMS to develop Edwards-Trinity Plateau Aquifer supplies in Nolan County was added. The revised table is presented below, with the modified information indicated with yellow shading.

**Table 5E-2
Coke County Summary**

Water User Group	Current Supplies	2020 Shortage (ac-ft/yr)	2070 Shortage (ac-ft/yr)	Recommended Water Management Strategies
Bronte	Sales from Sweetwater, Other Undifferentiated Aquifer	368	366	Municipal Conservation, Subordination, Rehabilitation of Oak Creek Pipeline, Water Treatment Plant Expansion, Develop Other Aquifer Supplies in Southwest Coke County, Develop Edwards-Trinity Plateau Aquifer Supplies in Nolan County
Robert Lee	CRMWD, Run-of-River, Sales from Bronte	247	240	Municipal Conservation, Subordination (through Bronte), Purchase Additional Supplies from Bronte
County-Other	Edwards-Trinity Plateau Aquifer, Other Undifferentiated Aquifer	None	None	None
Irrigation	Run-of-River, Edwards-Trinity Plateau Aquifer, Other Undifferentiated Aquifer	None	None	Irrigation Conservation
Livestock	Stock Ponds, Edwards-Trinity Plateau Aquifer, Other Undifferentiated Aquifer	None	None	None
Manufacturing	----	----	----	----
Mining	Edwards-Trinity Plateau Aquifer	None	None	Mining Conservation (Recycling)
Steam Electric	Oak Creek Reservoir	None	None	None

A.3.2.3 Revision to 5E.13.1, *Junction*

Section 5E.13.1 discusses the recommended water plan for the City of Junction. There are no changes to the text in this section. **Table 5E-29** (page 5E-32) is revised to adjust the online date for developing Edwards-Trinity Plateau Aquifer Supplies from starting in 2020 to 2030. The revised table is presented below, with the modified information indicated with yellow shading.

**Table 5E-3
Recommended Water Strategies for Junction**

	Capital Cost	2020	2030	2040	2050	2060	2070
Demand		626	620	609	605	604	604
Existing Supply (Run-of-River Supply)		0	0	0	0	0	0
Shortage (ac-ft/yr)		626	620	609	605	604	604
Recommended Strategies(ac-ft/yr)							
Municipal Conservation		8	8	8	8	8	8
Subordination (Colorado Run-of-River Supply)	\$0	250	250	250	250	250	250
Dredge River Intake*	\$8,487,000	250	250	250	250	250	250
Develop Edwards-Trinity Plateau Aquifer Supplies	\$7,457,000	0	370	370	370	370	370
TOTAL	\$15,944,000	258	628	628	628	628	628

**This strategy is for infrastructure required to access the subordination supplies and is not included in the total to avoid double counting.*

A.3.2.4 Revision to Section 5E.20.2, Mitchell County Steam Electric Power

Section 5E.20.2 discusses the Mitchell County Steam Electric Power (SEP) proposed power plant and management strategies for supplying water to the power plant. The proposed plant was set to be composed of two facilities, FGE I and II, for Luminant’s Morgan Creek Power Plant and to take water from the Lake Colorado City – Champion Creek Reservoir system. The proposed facilities were to be combined cycle gas turbine plants. However, as outlined in Section 5E.20.2 of the 2021 Region F RWP, these facilities are speculative and do not yet exist. In the February 1 meeting with the RFWPG, it was confirmed that these facilities have still not been implemented and will not be implemented in the foreseeable future. The RFWPG requested the WMS for Mitchell County SEP be removed from the plan due to the power plant no longer being presumed to exist moving forward. Thus, changes for the 2026 RWP will include the following revisions in Section 5E.20.2. The revised text is presented below, with the revised information indicated with yellow shading.

Luminant’s Morgan Creek Power Plant is located in Mitchell County and obtains water from the Lake Colorado City – Champion Creek Reservoir system, which only has available supply under subordination. There are also two proposed facilities, FGE I and II, that are included in the steam electric power demand in Mitchell County. The proposed facilities would be combined cycle gas turbine plants, which tend to use less water than conventional power generation. However, these facilities are speculative and do not yet exist. To date, FGE has not yet moved forward with building these facilities and there is no indication that these facilities will be operating in the near future. Therefore, the purchase of reuse water is no longer a

recommended strategy for steam electric power in Mitchell County. Even after implementing the recommended subordination strategy, there is a significant projected need for steam electric power in Mitchell County. Other options to meet this need are limited, but the demands and projected need may be overstated if the FGE facilities are never built.

The second bulleted list on page 5E-46 in green lists the Mitchell County SEP Recommended Strategies. The sale of wastewater effluent from the City of Colorado City was removed as a strategy. The changed bulleted list is shown below, with the revised text highlighted with yellow shading.

Mitchell County Steam Electric Power Recommended Strategies

- Subordination (Lake Colorado City/Champion Lake)
- ~~Sale of Wastewater Effluent from Colorado City~~

Revision to Table 5E-47, Recommended Water Strategies for Mitchell County Steam Electric Power

Table 5E-47 was revised to remove the sale of reuse supplies to steam electric power. The revised table is presented below, with the removed or revised information indicated with yellow shading.

Table 5E-4
Recommended Water Strategies for Mitchell County Steam Electric Power

	Capital Cost (millions)	2020	2030	2040	2050	2060	2070
Demand		10,326	10,326	10,326	10,326	10,326	10,326
Supply (Champion Lake)		0	0	0	0	0	0
Shortage (ac- ft/yr)		10,326	10,326	10,326	10,326	10,326	10,326
Recommended Strategies (ac-ft/yr)							
Subordination (Champion Lake)	\$0	1,170	1,156	1,142	1,128	1,114	1,100
Reuse Sales from Colorado City	\$8,642,000	500	500	500	500	500	500
TOTAL	\$0	1,170	1,156	1,142	1,128	1,114	1,100

A.3.2.5 Revision to Section 5E.20.3, Mitchell County Summary

Section 5E.20.3 discusses the Mitchell County Summary of water management strategies. The first paragraph on page 5E-47 was updated to reflect the change for the Mitchell County SEP strategies. The revised text is presented below, with the revised information indicated with yellow shading.

Mitchell County is projected to have shortages associated with Colorado City, steam electric power, and irrigation. Colorado City can meet its municipal needs after developing additional groundwater supplies, though this cannot be fully represented in the regional plan due to MAG limitations. **Steam electric power has a large unmet need that cannot be met through subordination alone and options for other supplies are limited.** Irrigation also has an unmet need despite conservation. Conservation is also recommended for mining, even though there is no shortage. County-Other, livestock, manufacturing, and mining show no shortages and have no recommended strategies.

Revisions to Table 5E-48, Mitchell County Summary

Table 5E-48 was updated to remove the recommended strategy of reuse sales to steam electric power from Colorado City. The revised table is presented below, with the removed or revised information indicated with yellow shading.

**Table 5E-5
Mitchell County Summary**

Water User Group	Current Supplies	2020 Shortage (ac-ft/yr)	2070 Shortage (ac-ft/yr)	Recommended Water Management Strategies
Colorado City	Dockum Aquifer	0	183	Municipal Conservation
Loraine	Dockum Aquifer	None	None	Municipal Conservation
Mitchell County Utility	Dockum Aquifer	None	None	Municipal Conservation
County-Other	Dockum Aquifer, Sales from Colorado City	None	None	None
Irrigation	Run-of-River, Dockum Aquifer	1,584	1,482	Irrigation Conservation
Livestock	Livestock Local Supplies, Dockum Aquifer, Other Aquifer	None	None	None
Manufacturing	Purchase from Colorado City	None	None	None
Mining	Dockum Aquifer	None	None	Mining Conservation (Recycling)
Steam Electric	Champion Lake	9,156	9,226	Subordination Reuse sales from Colorado City

Revisions to Table 5E-49, Unmet Needs in Mitchell County

Table 5E-49 was updated to reflect the change in unmet needs as the result of removing the recommended strategy to sell reuse supplies to steam electric power from Colorado City. The revised table is presented below, with the removed or revised information indicated with yellow shading.

Table 5E-6
Unmet Needs in Mitchell County
 -Values are in Acre-Feet per Year-

Water User Group	2020	2030	2040	2050	2060	2070
Colorado City	0	115	126	137	150	164
Irrigation	1,328	1,602	1,507	1,389	1,310	1,226
Steam Electric Power	9,156	9,170	9,184	9,198	9,212	9,226
TOTAL	10,484	10,887	10,817	10,724	10,672	10,617

A.3.2.6 Revision to Section 5E.23.1, *Balmorhea*

Section 5E.23.1 discusses the recommended water plan for the City of Balmorhea. There are no changes to the text in this section. **Table 5E-57** (page 5E-55) is revised to adjust the online date for developing Edwards-Trinity Plateau Aquifer Supplies from starting in 2020 to 2030. The revised table is presented below, with the added information indicated with yellow shading.

Table 5E-7
Recommended Water Strategies for Balmorhea

	Capital Cost	2020	2030	2040	2050	2060	2070
Demand		243	254	265	273	278	283
Supply (Groundwater)		136	136	136	136	136	136
Shortage (ac-ft/yr)		107	118	129	137	142	147
Recommended Strategies (ac-ft/yr)							
Municipal Conservation	\$0	2	2	2	2	2	2
Develop Edwards-Trinity Plateau Aquifer Supplies	\$1,948,000	0	150	150	150	150	150
TOTAL	\$1,948,000	2	152	152	152	152	152

A.3.2.7 Revision to Table 5E-88, *Unmet Needs Summary*

Table 5E-88 (page 5E-83) is revised to reflect the additional unmet needs for Mitchell County SEP, and the new unmet needs in 2020 for the Cities of Bronte, Junction, and Balmorhea as a result of the changes in the recommended water management strategies. The revised table is presented below, with the added and revised information indicated with yellow shading.

**Table 5E-8
Unmet Needs Summary**

Water User Group	County	2020	2030	2040	2050	2060	2070
Andrews	Andrews	147	361	619	1,186	1,850	2,650
County-Other	Andrews	16	43	74	134	192	254
Livestock	Andrews	9	17	25	39	50	60
Manufacturing	Andrews	31	59	87	134	174	209
Irrigation	Andrews	681	3,651	5,260	6,352	7,275	8,097
Mining	Andrews	909	868	66	0	0	0
Irrigation	Brown	1,302	1,062	1,061	1,063	1,060	1,061
Bronte ^a	Coke	443	0	0	0	0	0
Irrigation	Irion	252	200	147	147	147	147
Mining	Irion	1,444	1,440	225	0	0	0
Irrigation	Kimble	970	837	784	784	784	784
Junction	Kimble	368	0	0	0	0	0
Mining	Loving	3,381	3,381	2,543	1,427	699	762
Irrigation	Martin	0	0	2,392	3,346	6,004	7,844
Colorado City	Mitchell	0	115	126	137	150	164
Irrigation	Mitchell	1,328	1,602	1,507	1,389	1,310	1,226
Steam Electric Power	Mitchell	9,156	9,170	9,184	9,198	9,212	9,226
Balmorhea	Reeves	105	0	0	0	0	0
Irrigation	Scurry	6,153	5,799	5,582	5,579	5,577	5,580
Mining	Scurry	222	363	385	290	196	132
Steam Electric Power	Ward	2,352	2,352	2,352	2,352	2,352	2,352
TOTAL		29,274	31,320	32,419	33,557	37,032	40,548

a. Includes unmet needs for the City of Bronte and their customers (Robert Lee and Coke County-Other).

A3.3 Changes to Chapter 6 – Impacts of the RWP

Changes to this chapter include updated text and tables to reflect the amended WMSs. These changes occur in Sections 6.1.2, 6.7.4, and 6.8.

A.3.3.1 Revision to Section 6.1.2, *Reuse of Treated Wastewater*

The following text on page 6-3 was changed to remove the recommended sale of reuse supply to steam electric power in Mitchell County:

In Region F, there are two recommended direct non-potable reuse strategies including:

- Menard (Direct Non-Potable)
- ~~Mitchell County Steam-Electric Power (Direct Non-Potable)~~
- Pecos (Direct Non-Potable)

A.3.3.2 Revision to Section 6.7.4, Power Generation

Section 6.7.4 summarizes the unmet needs in Region F for power generation WUGs. The second paragraph of the section, on page 6-13, is revised to remove the sale of reuse supplies for Mitchell County SEP. Specific revisions are indicated in yellow shading.

Unmet steam electric power needs in Mitchell County are associated with two proposed FGE Texas Power facilities. These facilities do not currently exist, and development is uncertain. Steam electric power is projected to have a large shortage as supply options are limited. Should these facilities be developed in the future, some of the projected water need could potentially be met through reuse supplies from the City of Colorado City. This strategy is not considered for the amended 2021 Region F RWP due to the uncertainty of the demand.

Revision to Table 6-4

Table 6-4 (page 6-13) is revised to not include the sale of reuse water to the Mitchell County FGE power plants. This has increased the unmet needs for Steam Electric Power in Region F, but these needs are uncertain at this time. The revised table is presented below, with the added information indicated with yellow shading.

Table 6-4 Unmet Steam Electric Power Needs in Region F						
Water User Group	2020	2030	2040	2050	2060	2070
Mitchell	(9,156)	(9,170)	(9,184)	(9,198)	(9,212)	(9,226)
Ward	(2,352)	(2,352)	(2,352)	(2,352)	(2,352)	(2,352)
Total	(11,508)	(11,522)	(11,536)	(11,550)	(11,564)	(11,578)

A.3.3.3 Revision to Section 6.8, Consistency with Protection of Public Health and Safety

Section 6.8 and Table 6-5 summarize the unmet needs in Region F for municipal WUGs. A new paragraph is added after the second paragraph of the section, on page 6-14, to address unmet needs in 2020 for the Cities of Bronte (and customers), Junction, and Balmorhea. These unmet needs are due to changes in the recommended water management strategies described in this amendment. These needs are met once the WMS are online in 2030. Specific revisions are indicated in yellow shading.

However, these users are planning to pursue the development of additional groundwater above the MAG to protect the public health and safety of their residents. Andrews and Andrews County-Other are able to do this because there is no GCD limit on groundwater production within Andrews County. However,

Colorado City will have to coordinate with the GCD in Mitchell County (Lone Wolf GCD) to determine potential groundwater development above the MAG.

The cities of Bronte and its customers, Junction, and Balmorhea have municipal unmet needs in the year 2020. This is due to changes to the recommended strategies after the 2021 RWP was adopted, as documented in an Amendment to the 2021 Region F Water Plan. These needs are met however, once the strategies come online in 2030.

Conservation was considered and recommended as a strategy to help reduce the unmet needs and protect the human health and safety of the residents of Andrews, Andrews County-Other, Bronte, Junction, Balmorhea and Colorado City. Drought management was also considered for these entities but was not considered feasible for meeting long-term growth in demands. Instead it is intended and encouraged to be used as means to reduce water usage during drought emergencies through the implementation of the entity's Drought Contingency Plan. Table 6-4 below summarizes all municipal unmet needs in Region F.

Revision to Table 6-5

Table 6-5 (page 6-13) is revised to show the unmet needs for the cities of Bronte and its customers, Junction and Balmorhea in 2020. The revised table is presented below, with the added information indicated with yellow shading.

Table 6-5
Municipal Unmet Needs

Water User Group	2020	2030	2040	2050	2060	2070
Andrews	(147)	(361)	(619)	(1,186)	(1,850)	(2,650)
Balmorhea	(105)	0	0	0	0	0
Bronte ^a	(443)	0	0	0	0	0
County-Other, Andrews	(16)	(43)	(74)	(134)	(192)	(254)
Colorado City	0	(115)	(126)	(137)	(150)	(164)
Junction	(368)	0	0	0	0	0
Total	(1,079)	(519)	(819)	(1,457)	(2,192)	(3,068)

a. Includes unmet needs for the City of Bronte and their customers (Robert Lee and Coke County-Other).

A3.4 Changes to Chapter 10 – Adoption of Plan and Public Participation

A.3.4.1 Addition of Section 10.8

To document the public process and adoption of the amendment to the 2021 Region F RWP, a new section, “Section 10.8: Amendment of the 2021 Regional Water Plan”, is added to page 10-5 of Chapter 10. The additional text is provided below in shaded text:

Subsequent to the initial adoption of the 2021 RWP, the RFWPG adopted an amendment to the 2021 Region F RWP to include several changes to the recommended and alternative WMS. These changes are:

- The City of Bronte alternative strategy to develop groundwater supplies in Nolan County is changed to a recommended WMS and replaces the previously recommended City of Bronte strategy to develop Other Aquifer supplies in southwest Coke County. The development of Other Aquifer supplies strategy in southwest Coke County was changed from a recommended WMS to an alternative WMS.
- Colorado City recommended strategy to sell reuse water to steam electric power (SEP) for new FGE Texas plants in Mitchell County was removed because the FGE project has not moved forward yet.
- Both the Cities of Junction and Balmorhea changed the online date for developing additional Edwards-Trinity Plateau Aquifer Supplies from 2020 to 2030.

At its February 1, 2024, regular public meeting, the RFWPG received a presentation regarding the amendment requests and took public comments. On behalf of the RFWPG, the consultants submitted an amendment package to the TWDB on March 22, 2024, for confirmation of a minor amendment status for these changes. This was confirmed and the minor amendment was approved by the RFWPG on May 23, 2024.

A3.5 Changes to Chapter 11 – Implementation and Comparison to Previous RWP

Changes in Chapter 11 include updated text in Section 11.2.6 and updates to Tables 11-3 and 11-4.

A.3.5.1 Changes to Section 11.2.6, *Recommended and Alternative Water Management Strategies and Projects*

Section 11.2.6 text on page 11-11 is updated to show the removal of two infrastructure projects that are new in the 2021 Region F RWP. Developing groundwater supplies in Nolan County for the City of Bronte was recommended in the 2016 Region F RWP, so the inclusion of this strategy in the 2021 Region RWP is not a new strategy for purposes of Section 11.2.6. The modified text is shown below.

There are ~~18~~ 16 new infrastructure strategies and projects that were included in the 2021 plan that were not included in the 2016 plan.

Revision to Table 11-3.

Table 11-3 (page 11-11) is updated to reflect the change in recommended water management strategies and projects, including the removal of the Mitchell County SEP reuse strategy and City of Bronte's Other Aquifer supply strategy in Coke County. The amended table is presented below, with changes highlighted in yellow. The City of Bronte's Edwards-Trinity Plateau Aquifer supply strategy that was substituted as a

recommended strategy was also a recommended strategy for the City in the previous 2016 Region F RWP, and therefore, it is not a new recommended WMS.

Table 11-3
New Recommended Water Management Strategies and Projects in the 2021 Plan

Water User Group or Wholesale Provider	New Recommended Water Management Strategy and Project
Balmorhea	Develop Edwards-Trinity Plateau Aquifer Supplies
Bronte	Develop Other Aquifer Supplies in Southwest Coke County
Colorado River MWD	Ward County Well Field Replacement
Concho Rural WSC	Purchase from Provider (UCRA)
Grandfalls	Develop Pecos Valley Aquifer Supplies
Greater Gardendale WSC	Purchase from City of Odessa - Treated Water
Manufacturing, Scurry	Develop Other Aquifer Supplies
Menard	Develop Alluvial Well Supplies
Midland	Advanced RO Treatment, Expanded Use of Paul Davis Well Field
Mining, Brown	Develop Cross Timbers Aquifer Supplies
Mining, Reeves	Develop Pecos Valley Aquifer Supplies
Pecos	Partner with Madera Valley WSC and Expand Pecos Valley Aquifer Supplies
Pecos	Advanced Water Treatment Plant
Pecos	Direct Potable Reuse
Pecos	Direct Non-Potable Reuse
Pecos County WCID #1	Replace Transmission Pipeline
Sonora	Develop Additional Edwards-Trinity Aquifer Supplies
Steam Electric Power, Mitchell	Direct Non-Potable Reuse Sales from Colorado City

Revision to Table 11-4.

Table 11-4 (page 11-11) is updated to reflect the change in alternative water management strategies and projects, including the addition of developing Other Aquifer supplies in southwest Coke County for the City of Bronte as a new alternative WMS. The amended table is presented below, with changes highlighted in yellow.

Table 11-4
New Alternative Water Management Strategies and Projects

Water User Group or Wholesale Provider	New Alternative Water Management Strategy
Bronte	Develop Other Aquifer Supplies in Runnels County
Bronte	Develop Other Aquifer Supplies in Southwest Coke County
Brown County WCID	Develop New Groundwater (previously recommended)
Grandfalls	Purchase from Provider (CRMWD)
Great Plains	Develop Ogallala Aquifer Supplies
Greater Gardendale WSC	Purchase from Midland County FWSD No. 1 - Winkler County Water
Manufacturing, Andrews	Develop Additional Groundwater ^a
Pecos	Indirect Potable Reuse with ASR

a. Listed as an alternative strategy due to constraints of MAG availability in the county.

A.4 RWP MODIFICATIONS AND ADDITIONS TO VOLUME 2

A4.1 Changes to Appendix C – Water Management Strategy Evaluation Technical Memorandums

Appendix C to the 2021 RWP contains technical memorandums for every WMS in the plan. The removal of the Mitchell County SEP WMS and project results in the removal of page C-32 in Appendix C C.2 Reuse section. The change in the online date for the City of Junction groundwater WMS resulted in a change in C.4 (page C-90) and the new online date for the City of Balmorhea groundwater WMS resulted in a change in C.4 (page C-82 to C-83). The City of Bronte strategy to develop Edwards-Trinity Plateau supplies in Nolan County was changed in section C.4 (page C-101) from an alternative to a recommended strategy and associated quantities, costs, and online date were updated. The City of Bronte’s previously recommended strategy to develop Other Aquifer supplies in Coke County was also changed to an alternative strategy in section C.4 (page C-84). Revision to this text is included in **Attachment 1** to this report.

A4.2 Changes to Appendix D – Cost Tables

The City of Bronte strategy to develop Edwards-Trinity Aquifer supplies in Nolan County was updated to use the full available MAG volume of 178 acre-feet per year, rather than the previous 75 acre-feet per year. This resulted in minor changes to the cost table (page D-58). A new table is included in Appendix D in **Attachment 2** to this report.

A4.3 Changes to Appendix E – Strategy Evaluation Matrix

The water management strategy environmental impact analysis matrix (Table E-1) and strategy evaluation matrix (Table E-2) were updated to remove the sale of reuse water to Mitchell County steam electric power and update the WMS for Bronte to develop Nolan County groundwater. The updated tables are included in **Attachment 3**.

A4.4 Changes to Appendix F – WMS Tables

Appendix F to the 2021 RWP includes tables listing all the recommended and alternative WMS and projects. The addition of recommended strategies, changes to alternative WMS and projects resulted in changes to the following tables. These tables are the same as Table ES-5 included in Section A.3.1.2 and Table ES-6 included in A.3.1.3. For completeness, the following tables are included in **Attachment 4**:

- *Table F1 – Summary of Recommended Strategies*
- *Table F2 – Summary of Alternative Strategies*

A.5 ADMINISTRATIVE AND PUBLIC PROCESS DOCUMENTATION

The administrative and public process for the amendment is described in Section A.1 and Section A.4.5 of this amendment package. Documentation of the process is included in **Attachment 5** to this report. The attachment includes the cover letter for the initial submittal requesting TWDB determination of minor or major amendment status, TWDB confirmation of minor amendment status, notification of the public comment period for the amendment, and a summary of public comments received. Per requirements, state water planning database (DB22) reports relevant to this amendment were updated. A copy of the updated DB22 reports provided by TWDB is included in **Attachment 6** to this report.

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Attachment 1

**Changes to Appendix C – Water Management Strategy Evaluation
Technical Memorandums**

APPENDIX C
WATER MANAGEMENT STRATEGY EVALUATION
TECHNICAL MEMORANDUMS

APPENDIX C

C.2 REUSE

WUG:	Mitchell County, Steam Electric Power	Capital Cost:	\$8,642,000
WMS Name:	Reuse Sales from Colorado City	Annual Cost	\$1,428 per acre foot
WMS Type:	Direct Non-Potable Reuse (Type II)	(During Amortization):	\$4.38 per 1,000 gal
WMS Yield:	500 acre-feet per year	Annual Cost	\$212 per acre foot
WMS Status:	Recommended	(After Amortization):	\$0.65 per 1,000 gal
		Implementation:	2020

Strategy Description

Colorado City plans to sell most, if not all, of their wastewater effluent to FGE Power for use as cooling water at a new power plant being built in Mitchell County. This water management strategy is a generalized direct non-potable reuse strategy developed for the Region F Plan that assumes all of Colorado City's wastewater is sold to the steam electric power industry in Mitchell County. This strategy assumes that the current WWTP will need no improvements in order to bring a portion of the plant's effluent to Type II standards. If the plant's effluent does not already meet Type II standards, then the cost will be greater than shown in this plan. The strategy assumes ten miles of 10-inch transmission pipeline will need to be constructed in order to convey the reuse water from the plant to the FGE power plant. If this strategy is pursued, additional site-specific studies will be required to determine actual quantities of water available, costs and potential impacts.

Quantity, Reliability and Cost

This strategy is based on an additional reuse supply of 500 acre-feet per year of Type II non-potable reuse supply for sales to the steam electric power industry in Mitchell County. This supply is considered to be very reliable. The cost of this strategy is estimated at \$8,462,000 but may be different depending on site-specific situations.

Environmental Factors

This strategy assumes that 500 acre-feet of reuse supply will be used for the steam electric power industry. This may reduce the demand on other water sources and decrease the environmental impacts of those uses.

Since Colorado City does not currently discharge their wastewater into a water body, streamflows will not be impacted.

Agricultural and Rural Impacts

None identified.

Impacts to Natural Resources and Key Parameters of Water Quality

Reuse would result in a reduction in the quantity of water discharged by the City. It is not expected to adversely impact natural resources or key parameters of water quality.

Impacts on Other Water Resources and Management Strategies

To the extent that this supply reduces the demand on other water resources that the FGE power plant in Mitchell County utilizes, this strategy may reduce competition for water from those sources.

Other Issues Affecting Feasibility

None identified.

APPENDIX C

C.4 GROUNDWATER DEVELOPMENT

WUG:	Balmorhea	Capital Cost:	\$1,948,000
WMS Name:	Develop Edwards-Trinity Plateau Aquifer Supplies	Annual Cost (During Amortization):	\$1,053 per acre-foot \$3.23 per 1,000 gal
WMS Type:	Groundwater Development	Annual Cost (After Amortization):	\$140 per acre-foot \$0.43 per 1,000 gal
WMS Yield:	150 acre-feet per year		
WMS Status:	Recommended	Implementation:	2030

Strategy Description

The City of Balmorhea is evaluating a groundwater source in the Edwards-Trinity Plateau aquifer. This source has been identified as currently supplying water for municipal, industrial and agricultural uses. However, the long-term water availability and quality of the proposed well field should be assessed further. This strategy assumes that two new wells would be drilled to provide approximately 150 acre-feet per year. This well would produce water from approximately 600 feet below the surface.

This strategy also includes 5 miles of 6-inch diameter pipeline that will connect the well to the current infrastructure.

Quantity, Reliability and Cost

The quantity and reliability of water from this source is expected to be approximately 125 gpm. Historical municipal and agricultural use indicates that the Edwards-Trinity Plateau may be a viable source for municipal use but may require some treatment or blending based on local groundwater conditions. For this plan, the new well is assumed to supply an additional 150 acre-feet per year. The reliability of the supply is considered to be high, based on the aquifer characteristics observed to contain large pools of mostly potable water. The total capital cost is estimated at \$1.9 million. This strategy assumes that adequate water quality for municipal use can be reached through blending with Balmorhea's other groundwater sources. If the quality of water requires advanced treatment, costs would be higher than estimated here.

Environmental Factors

The aquifer is a proven groundwater source for municipal, industrial and agricultural purposes. However, the long-term water quality is unknown. Groundwater development from this source should be evaluated for potential impacts on springflows and base flows of area rivers. It is unlikely that this strategy would cause subsidence.

Agricultural and Rural Impacts

Springflows from the Edwards-Trinity Plateau supply much of the base flow of flowing streams in the area. Many of these streams are used for irrigation. Wells provide water for ranching, domestic and municipal supplies throughout the area. It is assumed that the proposed level of additional groundwater development will not impact agricultural or rural users.

Impacts to Natural Resources and Key Parameters of Water Quality

The water quality in the Edwards-Trinity Plateau aquifer ranges from generally fresh to slightly saline in the outcrop areas, and brackishwater in subsurface portions. Water levels have remained relatively stable because recharge has generally kept pace with the relatively low amounts of pumping over the extent of the aquifer. This strategy is not expected to impact key parameters of water quality.

No impacts to natural resources have been identified.

Impacts on Other Water Resources and Management Strategies

No other water management strategies will be impacted.

Other Issues Affecting Feasibility

The economic viability of the project will depend upon the ability to locate groundwater of sufficient quality to blend with existing sources without advanced treatment.

WUG:	Bronte	Capital Cost:	\$23,694,000
WMS Name:	Develop Other Aquifer Supplies in Southwest Coke County	Annual Cost (During Amortization):	\$2,424 per acre-foot \$7.44 per 1,000 gal
WMS Type:	Groundwater Development	Annual Cost (After Amortization):	\$340 per acre-foot \$1.04 per 1,000 gal
WMS Yield:	800 acre-feet per year		
WMS Status:	Alternative	Implementation:	2030

Strategy Description

The Coke County Underground Water District has done some groundwater exploration in southwest Coke County. Bronte is considering developing 5 new wells in this area. It is estimated that the wells would produce around 100 gpm from a 300 ft depth and be of adequate quality for municipal use without advanced treatment. A 31-mile, 10-inch transmission pipeline would be needed to deliver these supplies to the City.

Quantity, Reliability and Cost

This strategy is estimated to supply 800 acre-feet per year. The reliability is considered medium based on the work done by the Coke County Underground Water District but the strategy is still dependent on locating wells with adequate production and water quality. The costs are estimated at \$23.7 million.

Environmental Factors

Some testing and exploration has been done in this area but the long term water quality is unknown. Other environmental factors were not identified.

Agricultural and Rural Impacts

No agricultural and rural impacts are anticipated.

Impacts to Natural Resources and Key Parameters of Water Quality

None identified.

Impacts on Other Water Resources and Management Strategies

Other strategies for the City of Bronte may be impacted. The need for this strategy may be reduced if Robert Lee were to develop independent supplies from one of their Alternative Water Management Strategies.

Other Issues Affecting Feasibility

Because the long-term reliability and quality of this supply is unknown, the City may need to develop other alternatives to meet long-term needs. Funding construction of this infrastructure will be a significant strain on the financial resources of the City.

WUG:	Junction	Capital Cost:	\$7,457,000
WMS Name:	Develop Edwards-Trinity-Plateau Aquifer Supplies	Annual Cost (During Amortization):	\$1,573 per acre-foot \$4.83 per 1,000 gal
WMS Type:	Groundwater Development	Annual Cost (After Amortization):	\$154 per acre-foot \$0.47 per 1,000 gal
WMS Yield:	370 acre-feet per year	Implementation:	2030
WMS Status:	Recommended		

Strategy Description

The City of Junction is evaluating a groundwater source in the Edwards-Trinity Plateau aquifer to back up its current supplies. Water from this source is not widely used because of low well yields and poor water quality. This source is currently used for manufacturing. This strategy assumes that seven new wells would be drilled to provide approximately 370 acre-feet per year. These wells are assumed to produce water from approximately 190 feet below the surface with elevated TDS levels. It is assumed that this water is blended with surface water. However, if it is determined that the water qualities of the two sources are incompatible, the groundwater may require advanced treatment. Costs for advanced treatment are not included. This strategy assumes that the new wells will be drilled within three miles of the City's existing infrastructure. This project includes 1,800 feet of 6-inch diameter well field collection piping and three miles of 8-inch transmission piping to connect to existing infrastructure.

Quantity, Reliability and Cost

The quantity and reliability of water from this source is expected to be approximately 40 gpm. Historical use indicates that the Edwards-Trinity Plateau may be a viable source but may contain high TDS. For this plan, the seven new wells are assumed to supply an additional 370 acre-feet per year. The reliability of the supply is considered to be medium because of water quantity and quality issues.

Environmental Factors

The blending of slightly brackish water with Junction's existing supplies may increase the TDS levels of treated wastewater from the City. It is expected the increase will not exceed current discharge limits. No other environmental impacts are identified.

Agricultural and Rural Impacts

Wells provide water for ranching, domestic and municipal supplies throughout the area. This strategy assumes sufficient groundwater rights would be obtained on a willing buyer-willing seller basis, which should mitigate potential impacts to agricultural and rural water users.

Impacts to Natural Resources and Key Parameters of Water Quality

Water quality in the Edwards-Trinity Plateau aquifer ranges from fresh to slightly saline in the outcrop areas, and brine water in subsurface portions. Water levels have remained relatively stable because recharge has generally kept pace with the relatively low amounts of pumping. No impacts to natural resources have been identified.

Impacts on Other Water Resources and Management Strategies

None identified.

Other Issues Affecting Feasibility

A significant challenge for this strategy is locating areas with sufficient well production where the water quality is good.

WUG:	Robert Lee, Bronte, Robert Lee	Capital Cost:	\$4,232,000
WMS Name:	Develop Edwards-Trinity-Plateau Supplies in Nolan County	Annual Cost (During Amortization):	\$1,871 per acre-foot \$5.74 per 1,000 gal
WMS Type:	Groundwater Development	Annual Cost (After Amortization):	\$197 per acre-foot \$0.60 per 1,000 gal
WMS Yield:	178 acre-feet per year	Implementation:	2030
WMS Status:	Recommended		

Strategy Description

Robert Lee and Bronte and Robert Lee are considering developing new groundwater wells in south central Nolan County, which is in Region G. These wells produce water from the Edwards Trinity aquifer. For the purposes of this strategy, it is assumed that five new wells and approximately 15 miles of 6-inch transmission pipeline would be needed.

Quantity, Reliability and Cost

This strategy will provide **178** acre-feet per year. The reliability of this strategy is considered to be low to medium since it is dependent on finding adequate water quality and quantity. Capital costs are estimated at **\$4.2 million**.

Environmental Factors

There are no significant environmental issues associated with this strategy.

Agricultural and Rural Impacts

Robert Lee and Bronte and Robert Lee are rural communities. Increased water security provided by this strategy will have a positive impact on the vitality of this rural community.

Impacts to Natural Resources and Key Parameters of Water Quality

None identified.

Impacts on Other Water Resources and Management Strategies

If Robert Lee is able to implement one of the alternative groundwater strategies in this plan, their need to purchase from Bronte may be reduced and Bronte may be able to develop smaller quantities of future water supply. Or if Bronte were to implement this strategy, it may reduce Robert Lee's need to find additional sources of water.

Other Issues Affecting Feasibility

Since the reliability of this supply is unknown, the City should consider other alternatives to meet long-term needs as well. Funding construction of these new wells will be a significant strain on the financial resources of the City.

Attachment 2
Changes to Appendix D - Cost Tables

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APPENDIX D COST ESTIMATES

Cost Estimate Summary Water Supply Project Option September 2018 Prices Bronte - Develop Edwards-Trinity-Plateau Supplies in Nolan Co.	
Cost based on ENR CCI 11170.28 for September 2018 and a PPI of 201.9 for September 2018	
Item	Estimated Costs for Facilities
CAPITAL COST	
Transmission Pipeline (6 in dia., 15.1 miles)	\$2,181,000
Well Fields (Wells, Pumps, and Piping)	\$612,000
TOTAL COST OF FACILITIES	\$2,793,000
Engineering and Feasibility Studies, Legal Assistance, Financing, Bond Counsel, and Contingencies (30% for pipes & 35% for all other facilities)	\$868,000
Environmental & Archaeology Studies and Mitigation	\$392,000
Land Acquisition and Surveying (40 acres)	\$65,000
Interest During Construction (3% for 1 years with a 0.5% ROI)	<u>\$114,000</u>
TOTAL COST OF PROJECT	\$4,232,000
ANNUAL COST	
Debt Service (3.5 percent, 20 years)	\$298,000
Operation and Maintenance	
Pipeline, Wells, and Storage Tanks (1% of Cost of Facilities)	\$28,000
Pumping Energy Costs (93680 kW-hr @ 0.08 \$/kW-hr)	\$7,000
TOTAL ANNUAL COST	\$333,000
Available Project Yield (acft/yr)	178
Annual Cost of Water (\$ per acft), based on PF=1.75	\$1,871
Annual Cost of Water After Debt Service (\$ per acft), based on PF=1.75	\$197
Annual Cost of Water (\$ per 1,000 gallons), based on PF=1.75	\$5.74
Annual Cost of Water After Debt Service (\$ per 1,000 gallons), based on PF=1.75	\$0.60
SFK	3/5/2024

Attachment 3

Changes to Appendix E - Strategy Evaluation Matrix

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APPENDIX E
STRATEGY EVALUATION MATRIX AND QUANTIFIED
ENVIRONMENTAL IMPACT MATRIX

Table E-1
Water Management Strategy Environmental Impact Analysis

Entity	Entity County	Project County	Basin	Strategy	Environmental Factors																
					Acres Impacted	Wetland Acres Impacted	Acres Impacted Score	Environmental Water Needs Impact	Environmental Water Needs Score	Habitat Impact	Habitat Score	Potential Number of Threatened and Endangered Species Impacted	Threatened and Endangered Species Score	Cultural Resources Impact	Cultural Resources Score	Bays & Estuaries Impact	Bays & Estuaries Score	Environmental Water Quality Impact	Environmental Water Quality Score	Overall Environmental Impacts Score	
Andrews	Andrews	Andrews	Colorado	Develop Edwards-Trinity Plateau Aquifer Supplies	66	N/A	3	Low	3	Low	3	8	4	Low	3	None	5	Low	3	3	
Andrews	Andrews	Andrews	Colorado	Develop Ogallala Aquifer Supplies	35	N/A	4	Low	3	Low	3	8	4	Low	3	None	5	Low	3	4	
Andrews	Andrews	Andrews	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
County-Other	Andrews	Andrews	Colorado, Rio Grande	Develop Edwards-Trinity Plateau Aquifer Supplies	3	N/A	4	Low	3	Low	3	8	4	Low	3	None	5	Low	3	4	
County-Other	Andrews	Andrews	Colorado, Rio Grande	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Irrigation	Andrews	Andrews	Colorado, Rio Grande	Irrigation Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Livestock	Andrews	Andrews	Colorado	Develop Edwards-Trinity Plateau Aquifer Supplies	2	N/A	4	Low	3	Low	3	8	4	Low	3	None	5	Low	3	4	
Manufacturing	Andrews	Andrews	Colorado	Develop Edwards-Trinity Plateau Aquifer Supplies	3	N/A	4	Low	3	Low	3	8	4	Low	3	None	5	Low	3	4	
Mining	Andrews	Andrews	Colorado, Rio Grande	Mining Conservation (Recycling)	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Great Plains	Andrews, Gaines	Andrews, Gaines	Colorado, Rio Grande	Develop Ogallala Aquifer Supplies	1	N/A	4	Low	3	Low	3	8	4	Low	3	None	5	Low	3	4	
Irrigation	Borden	Borden	Brazos	Irrigation Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Mining	Borden	Borden	Brazos	Mining Conservation (Recycling)	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Bangs	Brown	Brown	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
BCWID #1	Brown	Brown	Colorado	Brush Control	958	N/A	1	Positive	5	Medium	2	15	3	Low	3	None	5	Low	3	3	
BCWID #1	Brown	Brown	Colorado	Develop Groundwater Supplies in Brown County	6	N/A	4	Low	3	Low	3	15	3	Low	3	None	5	Low	3	3	
BCWID #1	Brown	Brown	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4	
Brookesmith SUD	Brown	Brown	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Brookesmith SUD	Brown	Brown	Colorado	Water Audits and Leak Repairs	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	None	4	4	
Brownwood	Brown	Brown	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Early	Brown	Brown	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Irrigation	Brown	Brown	Colorado, Brazos	Irrigation Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Mining	Brown	Brown	Colorado	Develop Cross Timbers Aquifer Supplies	21	N/A	4	Low	3	Low	3	15	3	Low	3	None	5	Low	3	3	
Mining	Brown	Brown	Colorado	Mining Conservation (Recycling)	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Zephyr WSC	Brown	Brown	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Zephyr WSC	Brown	Brown	Colorado	Water Audits and Leak Repairs	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	None	4	4	
Bronte	Coke	Runnels	Colorado	Develop Other Aquifer Supplies in Runnels County	30	N/A	4	Low	3	Low	3	14	3	Low	3	None	5	Low	3	3	
Bronte	Coke	Coke	Colorado	Develop Other Aquifer Supplies in Southwest Coke County	88	N/A	3	Low	3	Low	3	13	3	Low	3	None	5	Low	3	3	
Bronte	Coke	Coke	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Bronte	Coke	Coke	Colorado	Rehabilitate Oak Creek Pipeline	7	N/A	4	Low	3	Low	3	N/A	5	Low	3	None	5	Low	3	4	
Bronte	Coke	Coke	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4	
Bronte	Coke	Coke	Colorado	Water Treatment Plant Expansion	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4	
Irrigation	Coke	Coke	Colorado	Irrigation Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Mining	Coke	Coke	Colorado	Mining Conservation (Recycling)	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Oak Creek (non-allocated)	Coke	Coke	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4	
Robert-Lee-Bronte	Coke	Nolan	Colorado	Develop Edwards-Trinity Plateau Aquifer Supplies in Nolan County	40	N/A	4	Low	3	Low	3	Varies	3	Low	3	None	5	Low	3	3	
Robert Lee	Coke	Tom Green	Colorado	Develop Edwards-Trinity Plateau Aquifer Supplies in Tom Green County	42	N/A	4	Low	3	Low	3	16	2	Low	3	None	5	Low	3	3	
Robert Lee	Coke	Coke	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Robert Lee	Coke	Coke	Colorado	Purchase from Provider (Bronte)	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4	
Robert Lee	Coke	Coke	Colorado	Repair and Expand Water Treatment Plant	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4	
Robert Lee	Coke	Coke	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4	
Bronte, Ballinger, Winters, Robert Lee	Coke, Runnels	Coke, Runnels	Colorado	Regional System from Lake Brownwood	230	N/A	2	Low	3	Medium	2	16	2	Low	3	None	5	Low	3	3	
Bronte, Ballinger, Winters, Robert Lee	Coke, Runnels	Coke, Runnels	Colorado	Regional System from Lake Fort Phantom Hill	200	N/A	2	Low	3	Medium	2	16	2	Low	3	None	5	Low	3	3	
Coleman	Coleman	Coleman	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Coleman	Coleman	Coleman	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4	
Coleman	Coleman	Coleman	Colorado	Water Audits and Leak Repairs	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	None	4	4	
Coleman County SUD	Coleman	Coleman	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Coleman County SUD	Coleman	Coleman	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4	
County-Other	Coleman	Coleman	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
County-Other	Coleman	Coleman	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4	
Irrigation	Coleman	Coleman	Colorado	Irrigation Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Irrigation	Coleman	Coleman	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4	
Manufacturing	Coleman	Coleman	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4	
Mining	Coleman	Coleman	Colorado	Mining Conservation (Recycling)	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Santa Anna	Coleman	Coleman	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
County-Other	Concho	Concho	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Eden	Concho	Concho	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Irrigation	Concho	Concho	Colorado	Irrigation Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Mining	Concho	Concho	Colorado	Mining Conservation (Recycling)	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Crane	Crane	Crane	Rio Grande	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Mining	Crane	Crane	Rio Grande	Mining Conservation (Recycling)	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Crockett County WCID 1	Crockett	Crockett	Rio Grande	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Irrigation	Crockett	Crockett	Rio Grande	Irrigation Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Irrigation	Crockett	Crockett	Rio Grande	Weather Modification	0	N/A	5	Positive													

Entity	Entity County	Project County	Basin	Strategy	Environmental Factors															
					Acres Impacted	Wetland Acres Impacted	Acres Impacted Score	Environmental Water Needs Impact	Environmental Water Needs Score	Habitat Impact	Habitat Score	Potential Number of Threatened and Endangered Species Impacted	Threatened and Endangered Species Score	Cultural Resources Impact	Cultural Resources Score	Bays & Estuaries Impact	Bays & Estuaries Score	Environmental Water Quality Impact	Environmental Water Quality Score	Overall Environmental Impacts Score
Greater Gardendale WSC	Ector, Midland	Ector, Midland	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Greater Gardendale WSC	Ector, Midland	Ector, Midland	Colorado	Purchase from Provider (Midland FWSD)	8	N/A	4	Low	3	Low	3	11	3	Low	3	None	5	Low	3	3
Greater Gardendale WSC	Ector, Midland	Ector, Midland	Colorado	Purchase from Provider (Odessa)	27	N/A	4	Low	3	Low	3	11	3	Low	3	None	5	Low	3	3
Irrigation	Glasscock	Glasscock	Colorado	Irrigation Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Mining	Glasscock	Glasscock	Colorado	Mining Conservation (Recycling)	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Big Spring	Howard	Howard	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Big Spring	Howard	Howard	Colorado	New Water Treatment Plant	10	N/A	4	Low	3	Low	3	7	4	Low	3	None	5	Low	3	4
Big Spring	Howard	Howard	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4
Coahoma	Howard	Howard	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Coahoma	Howard	Howard	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4
Irrigation	Howard	Howard	Colorado	Irrigation Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Manufacturing	Howard	Howard	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4
Manufacturing (Future Sales)	Howard	Howard	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4
Mining	Howard	Howard	Colorado	Mining Conservation (Recycling)	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Steam Electric Power	Howard	Howard	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4
Irrigation	Irion	Irion	Colorado	Irrigation Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Irrigation	Irion	Irion	Colorado	Weather Modification	0	N/A	5	Positive	5	Low	3	N/A	5	N/A	4	None	5	None	4	4
Mertzon	Irion	Irion	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Mining	Irion	Irion	Colorado	Mining Conservation (Recycling)	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Irrigation	Kimble	Kimble	Colorado	Irrigation Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Junction	Kimble	Kimble	Colorado	Develop Edwards-Trinity Plateau Aquifer Supplies	17	N/A	4	Low	3	Low	3	16	2	Low	3	None	5	Low	3	3
Junction	Kimble	Kimble	Colorado	Dredging River Intake	15	N/A	4	Low	3	Low	3	16	2	Low	3	None	5	Positive	5	4
Junction	Kimble	Kimble	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Junction	Kimble	Kimble	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4
Manufacturing	Kimble	Kimble	Colorado	Develop Ellenburger San Saba Aquifer Supplies	7	N/A	4	Low	3	Low	3	16	2	Low	3	None	5	Low	3	3
Manufacturing	Kimble	Kimble	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4
Mining	Kimble	Kimble	Colorado	Mining Conservation (Recycling)	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Mining	Loving	Loving	Rio Grande	Mining Conservation (Recycling)	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Irrigation	Martin	Martin	Colorado	Irrigation Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Mining	Martin	Martin	Colorado	Mining Conservation (Recycling)	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Stanton	Martin	Martin	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Stanton	Martin	Martin	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4
Irrigation	Mason	Mason	Colorado	Irrigation Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Mason	Mason	Mason	Colorado	Additional Treatment	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4
Mason	Mason	Mason	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Mining	Mason	Mason	Colorado	Mining Conservation (Recycling)	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Brady	McCulloch	McCulloch	Colorado	Advanced Groundwater Treatment	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4
Brady	McCulloch	McCulloch	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Brady	McCulloch	McCulloch	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4
Brady Creek (non-allocated)	McCulloch	McCulloch	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4
Irrigation	McCulloch	McCulloch	Colorado	Irrigation Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Mining	McCulloch	McCulloch	Colorado	Mining Conservation (Recycling)	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Richland SUD	McCulloch	McCulloch	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Irrigation	Menard	Menard	Colorado	Irrigation Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Irrigation	Menard	Menard	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4
Menard	Menard	Menard	Colorado	Develop Alluvial Well Supplies	21	N/A	4	Medium	2	Low	3	16	2	Low	3	None	5	Low	3	3
Menard	Menard	Menard	Colorado	Develop Hickory Aquifer Supplies	18	N/A	4	Low	3	Low	3	16	2	Low	3	None	5	Low	3	3
Menard	Menard	Menard	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Mining	Menard	Menard	Colorado	Mining Conservation (Recycling)	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Airline Mobile Home Park	Midland	Midland	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
County-Other	Midland	Winkler	Colorado	Develop Pecos Valley Aquifer Supplies from Winkler County	34	N/A	4	Low	3	Low	3	7	4	Low	3	None	5	Low	3	4
Greenwood Water	Midland	Midland	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Irrigation	Midland	Midland	Colorado	Irrigation Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Irrigation	Midland	Midland	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4
Midland	Midland	Midland	Colorado	Advanced RO Treatment, Expanded Use of Paul Davis Well Field	43	N/A	4	Low	3	Low	3	5	5	Low	3	None	5	Low	3	4
Midland	Midland	Midland	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Midland	Midland	Midland	Colorado	Purchase from Provider (CRMWD)	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4
Midland	Midland	Midland	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4
Midland	Multiple	Multiple	Colorado, Rio Grande	West Texas Water Partnership	504	N/A	1	Low	3	Medium	2	Varies	1	Low	3	None	5	Medium	2	2
Midland	Multiple	Multiple	Colorado, Rio Grande	West Texas Water Partnership	214	N/A	2	Low	3	Medium	2	Varies	1	Low	3	None	5	Medium	2	3
Mining	Midland	Midland	Colorado	Mining Conservation (Recycling)	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Colorado City	Mitchell	Mitchell	Colorado	Develop Dockum Aquifer Supplies	26	N/A	4	Low	3	Low	3	11	3	Low	3	None	5	Low	3	3
Colorado City	Mitchell	Mitchell	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Irrigation	Mitchell	Mitchell	Colorado	Irrigation Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Lake Colorado City (non-allocated)	Mitchell	Mitchell	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4
Loraine	Mitchell	Mitchell	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Mining	Mitchell	Mitchell	Colorado	Mining Conservation (Recycling)	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Mitchell County Utility	Mitchell	Mitchell	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Steam Electric Power	Mitchell	Mitchell	Colorado	Indirect Non-Potable Reuse (Sales from Colorado City)	36	N/A	4	Low	3	Low	3	11	3	Low	3	None	5	Low	3	3
Steam Electric Power	Mitchell	Mitchell	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4
CRMWD	Multiple	Winkler	Colorado	Develop Additional Groundwater Supplies in Reeves, Pecos, Ward, and Winkler Co.	131	N/A	2	Low	3	Medium	2	Varies	1	Low	3	None	5	Low	3	3
CRMWD	Multiple	Ward, Winkler	Colorado	Expand Ward County Well Field and Develop Winkler County Well Field	144	N/A	2	Low	3	Medium	2	Varies	3	Low	3	None	5	Low	3	3
CRMWD	Multiple	Multiple	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4
CRMWD	Multiple	Ward	Colorado	Ward County Well Field Well Replacement	15	N/A	4	Low	3	Low	3	11	3	Low	3	None	5	Low	3	3
CRMWD (non-allocated)	Multiple	Multiple	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4
UCRA	Multiple	Multiple	Colorado	Brush Control	1,000	N/A	1	Positive	5	Medium	2	Varies	2	Low	3	None	5	Low	3	3
Fort Stockton	Pecos	Pecos	Rio Grande	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Iraan	Pecos	Pecos	Rio Grande	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Irrigation	Pecos	Pecos	Rio Grande	Irrigation Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4

Entity	Entity County	Project County	Basin	Strategy	Environmental Factors															
					Acres Impacted	Wetland Acres Impacted	Acres Impacted Score	Environmental Water Needs Impact	Environmental Water Needs Score	Habitat Impact	Habitat Score	Potential Number of Threatened and Endangered Species Impacted	Threatened and Endangered Species Score	Cultural Resources Impact	Cultural Resources Score	Bays & Estuaries Impact	Bays & Estuaries Score	Environmental Water Quality Impact	Environmental Water Quality Score	Overall Environmental Impacts Score
Irrigation	Pecos	Pecos	Rio Grande	Weather Modification	0	N/A	5	Positive	5	Low	3	N/A	5	N/A	4	None	5	None	4	4
Mining	Pecos	Pecos	Rio Grande	Develop Additional Pecos Valley Aquifer Supplies	11	N/A	4	Low	3	Low	3	N/A	5	Low	3	None	5	None	4	4
Mining	Pecos	Pecos	Rio Grande	Mining Conservation (Recycling)	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Pecos County Fresh Water	Pecos	Pecos	Rio Grande	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Pecos County WCID #1	Pecos	Pecos	Rio Grande	Develop Edwards-Trinity Plateau Aquifer Supplies	4	N/A	4	Low	3	Low	3	29	1	N/A	3	None	5	Low	3	3
Pecos County WCID #1	Pecos	Pecos	Rio Grande	Replacement of Transmission Pipeline	60	N/A	3	Low	3	Low	3	N/A	5	Low	3	None	5	Low	3	4
Pecos WCID	Pecos	Pecos	Rio Grande	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Big Lake	Reagan	Reagan	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Irrigation	Reagan	Reagan	Colorado	Irrigation Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Irrigation	Reagan	Reagan	Colorado	Weather Modification	0	N/A	5	Positive	5	Low	3	N/A	5	N/A	4	None	5	None	4	4
Mining	Reagan	Reagan	Colorado	Mining Conservation (Recycling)	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Balmorhea	Reeves	Reeves	Rio Grande	Develop Edwards-Trinity Plateau Aquifer Supplies	13	N/A	4	Low	3	Low	3	22	1	Low	3	None	5	Low	3	3
Balmorhea	Reeves	Reeves	Rio Grande	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Irrigation	Reeves	Reeves	Rio Grande	Irrigation Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Irrigation	Reeves	Reeves	Rio Grande	Weather Modification	0	N/A	5	Positive	5	Low	3	N/A	5	N/A	4	None	5	None	4	4
Madera Valley WSC	Reeves	Reeves	Rio Grande	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Mining	Reeves	Reeves	Rio Grande	Develop Pecos Valley Aquifer Supplies	38	N/A	4	Low	3	Low	3	22	1	Low	3	None	5	Low	3	3
Mining	Reeves	Reeves	Rio Grande	Mining Conservation (Recycling)	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Pecos	Reeves	Reeves	Rio Grande	Advanced Water Treatment Plant	4	N/A	4	Low	3	Low	3	Low (small acreage)	3	Low	3	None	5	Low	3	3
Pecos	Reeves	Reeves	Rio Grande	Direct Non-Potable Reuse	36	N/A	4	Low	3	Low	3	22	1	Low	3	None	5	Low	3	3
Pecos	Reeves	Reeves	Rio Grande	Direct Potable Reuse	18	N/A	4	Medium	2	Low	3	22	1	Low	3	None	5	Medium	2	3
Pecos	Reeves	Reeves	Rio Grande	Indirect Potable Reuse with Aquifer Storage and Recovery	24	N/A	4	Low	3	Low	3	22	1	Low	3	None	5	None	4	3
Pecos	Reeves	Reeves	Rio Grande	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Pecos	Reeves	Reeves	Rio Grande	Partner with Madera Valley WSC, Expand Pecos Valley Aquifer Supplies	41	N/A	4	Low	3	Low	3	22	1	Low	3	None	5	Low	3	3
Ballinger	Runnels	Runnels	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Ballinger	Runnels	Runnels	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4
County-Other	Runnels	Runnels	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
County-Other	Runnels	Runnels	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4
Irrigation	Runnels	Runnels	Colorado	Irrigation Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Miles	Runnels	Runnels	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Mining	Runnels	Runnels	Colorado	Mining Conservation (Recycling)	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
North Runnels WSC	Runnels	Runnels	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
North Runnels WSC	Runnels	Runnels	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4
Winters	Runnels	Runnels	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Winters	Runnels	Runnels	Colorado	Purchase from Provider (Abilene)	10	N/A	4	Low	3	Low	3	14	3	Low	3	None	5	Low	3	3
Winters	Runnels	Runnels	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4
El Dorado	Schleicher	Schleicher	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Irrigation	Schleicher	Schleicher	Colorado, Rio Grande	Irrigation Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Irrigation	Schleicher	Schleicher	Colorado, Rio Grande	Weather Modification	0	N/A	5	Positive	5	Low	3	N/A	5	N/A	4	None	5	None	4	4
Mining	Schleicher	Schleicher	Colorado, Rio Grande	Mining Conservation (Recycling)	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
County-Other	Scurry	Scurry	Colorado, Brazos	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
County-Other	Scurry	Scurry	Colorado, Brazos	Purchase from Provider (Snyder)	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4
County-Other	Scurry	Scurry	Colorado, Brazos	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4
Irrigation	Scurry	Scurry	Colorado, Brazos	Irrigation Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Manufacturing	Scurry	Scurry	Colorado	Develop Dockum Aquifer Supplies	3	N/A	4	Low	3	Low	3	10	4	Low	3	None	5	Low	3	4
Mining	Scurry	Scurry	Colorado, Brazos	Mining Conservation (Recycling)	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Snyder	Scurry	Scurry	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Snyder	Scurry	Scurry	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4
Irrigation	Sterling	Sterling	Colorado	Irrigation Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Irrigation	Sterling	Sterling	Colorado	Weather Modification	0	N/A	5	Positive	5	Low	3	N/A	5	N/A	4	None	5	None	4	4
Mining	Sterling	Sterling	Colorado	Mining Conservation (Recycling)	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Sterling City	Sterling	Sterling	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Irrigation	Sutton	Sutton	Colorado, Rio Grande	Irrigation Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Irrigation	Sutton	Sutton	Colorado, Rio Grande	Weather Modification	0	N/A	5	Positive	5	Low	3	N/A	5	N/A	4	None	5	None	4	4
Mining	Sutton	Sutton	Colorado, Rio Grande	Mining Conservation (Recycling)	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Sonora	Sutton	Sutton	Rio Grande	Develop Additional Edwards-Trinity Aquifer Supplies	1	N/A	4	Low	3	Low	3	13	3	Low	3	None	5	Low	3	3
Sonora	Sutton	Sutton	Rio Grande	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Sonora	Sutton	Sutton	Colorado	Water Audits and Leak Repairs	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	None	4	4
Concho Rural Water	Tom Green	Tom Green	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Concho Rural Water	Tom Green	Tom Green	Colorado	Purchase from Provider (UCRA)	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4
County-Other	Tom Green	Tom Green	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4
DADS Supported Living Center	Tom Green	Tom Green	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Goodfellow Air Force Base	Tom Green	Tom Green	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Goodfellow Air Force Base	Tom Green	Tom Green	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4
Irrigation	Tom Green	Tom Green	Colorado	Irrigation Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Irrigation	Tom Green	Tom Green	Colorado	Weather Modification	0	N/A	5	Positive	5	Low	3	N/A	5	N/A	4	None	5	None	4	4
Manufacturing	Tom Green	Tom Green	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4
Millersview-Doole WSC	Tom Green	Concho	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
Millersview-Doole WSC	Tom Green	Concho	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4
Millersview-Doole WSC	Tom Green	Coleman	Colorado	Water Audits and Leak Repairs	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	None	4	4
Mining	Tom Green	Tom Green	Colorado	Mining Conservation (Recycling)	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
San Angelo	Tom Green	Tom Green	Colorado	Brush Control	586	N/A	1	Positive	5	Medium	2	16	2	Low	3	None	5	Low	3	3
San Angelo	Tom Green	Tom Green	Colorado	Desalination of Brackish Groundwater	10	N/A	4	Low	3	Low	3	16	2	Low	3	None	5	Positive	5	4
San Angelo	Tom Green	Schleicher	Colorado	Develop Edwards-Trinity Plateau Aquifer Supplies in Schleicher County	292	N/A	2	Low	3	Medium	2	11	3	Low	3	None	5	Low	3	3
San Angelo	Tom Green	Tom Green	Colorado	Develop Hickory Aquifer Supplies	5	N/A	4	Low	3	Low	3	16	2	Low	3	None	5	Low	3	3
San Angelo	Tom Green	Pecos	Colorado	Develop Pecos Valley/Edwards Trinity in Pecos County	494	N/A	2	Low	3	Medium	2	29	1	Low	3	None	5	Low	3	3
San Angelo	Tom Green	Tom Green	Colorado	Concho River Water Project (Indirect Potable Reuse)	6	N/A	4	Medium	2	Low	3	16	2	Low	3	None	5	Medium	2	3
San Angelo	Tom Green	Tom Green	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4
San Angelo	Tom Green	Tom Green	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4
San Angelo	Multiple	Multiple	Colorado, Rio Grande	West Texas Water Partnership	504	N/A	1	Low	3	Medium	2	Varies	1	Low	3	None	5	Medium	2	2
San Angelo	Multiple	Multiple	Colorado, Rio Grande	West Texas Water Partnership	214	N/A	2	Low	3	Medium	2	Varies	1	Low	3	None	5	Medium	2	3

Entity	Entity County	Project County	Basin	Strategy	Environmental Factors																
					Acres Impacted	Wetland Acres Impacted	Acres Impacted Score	Environmental Water Needs Impact	Environmental Water Needs Score	Habitat Impact	Habitat Score	Potential Number of Threatened and Endangered Species Impacted	Threatened and Endangered Species Score	Cultural Resources Impact	Cultural Resources Score	Bays & Estuaries Impact	Bays & Estuaries Score	Environmental Water Quality Impact	Environmental Water Quality Score	Overall Environmental Impacts Score	
Tom Green County FWSD 3	Tom Green	Tom Green	Colorado	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Upper Colorado River Authority	Tom Green	Tom Green	Colorado	Subordination	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4	
Irrigation	Upton	Upton	Colorado, Rio Grande	Irrigation Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
McCamey	Upton	Upton	Rio Grande	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Mining	Upton	Upton	Colorado, Rio Grande	Mining Conservation (Recycling)	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Rankin	Upton	Upton	Rio Grande	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Barstow	Ward	Ward	Rio Grande	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Grandfalls	Ward	Ward	Rio Grande	Develop Pecos Valley Aquifer Supplies	21	N/A	4	Low	3	Low	3	11	3	Low	3	None	5	Low	3	3	
Grandfalls	Ward	Ward	Rio Grande	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Grandfalls	Ward	Ward	Rio Grande	Purchase from Provider (CRMWD)	0	N/A	5	Low	3	Low	3	N/A	5	N/A	4	None	5	Low	3	4	
Irrigation	Ward	Ward	Rio Grande	Irrigation Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Irrigation	Ward	Ward	Rio Grande	Weather Modification	0	N/A	5	Positive	5	Low	3	N/A	5	N/A	4	None	5	None	4	4	
Mining	Ward	Ward	Rio Grande	Mining Conservation (Recycling)	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Monahans	Ward	Ward	Rio Grande	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Southwest Sandhills WSC	Ward	Ward	Rio Grande	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Wickett	Ward	Ward	Rio Grande	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Irrigation	Winkler	Winkler	Rio Grande	Irrigation Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Kermit	Winkler	Winkler	Rio Grande	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Mining	Winkler	Winkler	Rio Grande	Mining Conservation (Recycling)	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	
Wink	Winkler	Winkler	Rio Grande	Municipal Conservation	0	N/A	5	None	4	None	4	N/A	5	N/A	4	None	5	None	4	4	

Name(s)	Name	Name	Name	Name			#	Unmet Needs				High, Medium, Low	\$		High, Medium, Low	High, Medium, Low	High, Medium, Low	High, Medium, Low				
Entity	Entity County	Project County	Basin Used	Strategy	Recommended or Alternative	Strategy Type	Quantity (Ac-Ft/Yr)	2070	Maximum Need (Ac-Ft/Yr)	Percentage of Max Need Met	Quantity Score	Reliability	Cost (\$/Ac-Ft)	Cost Score	Impacts of Strategy on:					Overall Score (5-45)	Implementation Issues	Comments
															Environmental Factors	Agricultural Resources/ Rural Areas	Other Natural Resources	Key Water Quality Parameters	Third Party Social & Economic Factors			
Andrews	Andrews	Andrews	Colorado	Develop Edwards-Trinity Plateau Aquifer Supplies	Alternative	Groundwater Development	2,600	2,800	2,800	93%	4	3	\$891	3	3	4	4	3	5	29	The most significant issue will be locating areas with sufficient well production	The City can pursue this strategy independently but cannot receive state funding to do so due to modeled availability constraints
Andrews	Andrews	Andrews	Colorado	Develop Ogallala Aquifer Supplies	Alternative	Groundwater Development	2,810	2,800	2,800	100%	5	3	\$496	4	4	4	4	3	5	32	The most significant issue will be locating areas with sufficient well production	The City can pursue this strategy independently but cannot receive state funding to do so due to modeled availability constraints
Andrews	Andrews	Andrews	Colorado	Municipal Conservation	Recommended	Conservation	150	2,800	2,800	5%	1	3	\$952	3	4	4	4	3	5	27	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
County-Other	Andrews	Andrews	Colorado, Rio Grande	Develop Edwards-Trinity Plateau Aquifer Supplies	Alternative	Groundwater Development	250	275	275	91%	4	3	\$252	4	4	4	4	3	5	31	The most significant issue will be locating areas with sufficient well production	This entity can pursue this strategy independently but cannot receive state funding to do so due to modeled availability constraints
County-Other	Andrews	Andrews	Colorado, Rio Grande	Municipal Conservation	Recommended	Conservation	21	275	275	8%	1	3	\$1,080	2	4	4	4	3	5	26	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Irrigation	Andrews	Andrews	Colorado, Rio Grande	Irrigation Conservation	Recommended	Conservation	2,037	10,134	10,134	20%	1	3	\$21	4	4	5	4	3	5	29	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Livestock	Andrews	Andrews	Colorado	Develop Edwards-Trinity Plateau Aquifer Supplies	Alternative	Groundwater Development	60	60	60	100%	4	3	\$433	4	4	4	4	3	5	31	The most significant issue will be locating areas with sufficient well production	This entity can pursue this strategy independently but cannot receive state funding to do so due to modeled availability constraints
Manufacturing	Andrews	Andrews	Colorado	Develop Edwards-Trinity Plateau Aquifer Supplies	Alternative	Groundwater Development	210	209	209	100%	5	3	\$243	4	4	4	4	3	5	32	The most significant issue will be locating areas with sufficient well production	This entity can pursue this strategy independently but cannot receive state funding to do so due to modeled availability constraints
Mining	Andrews	Andrews	Colorado, Rio Grande	Mining Conservation (Recycling)	Recommended	Conservation	277	0	1,186	23%	1	1	\$632	3	4	4	4	3	5	25	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Great Plains*	Andrews, Gaines	Andrews, Gaines	Colorado, Rio Grande	Develop Ogallala Aquifer Supplies	Alternative	Groundwater Development	200	182	182	110%	5	3	\$190	4	4	4	4	3	5	32	The most significant issue will be locating areas with sufficient well production	This entity can pursue this strategy independently but cannot receive state funding to do so due to modeled availability constraints
Irrigation	Borden	Borden	Brazos	Irrigation Conservation	Recommended	Conservation	295	282	282	105%	5	3	\$21	4	4	5	4	3	5	33	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Mining	Borden	Borden	Brazos	Mining Conservation (Recycling)	Recommended	Conservation	39	0	0	101%	5	1	\$1,117	2	4	4	4	3	5	28	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Bangs	Brown	Brown	Colorado	Municipal Conservation	Recommended	Conservation	8	0	0	101%	5	3	\$1,221	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
BCWID #1*	Brown	Brown	Colorado	Brush Control	Recommended	Regional	400	0	0	101%	5	2	\$390	4	3	4	2	3	5	28	Brush control is an on-going process that must be continually maintained in order to receive benefits	No attributed water savings, but it is assumed that surface water supplies gained through subordination will be more reliable
BCWID #1*	Brown	Brown	Colorado	Develop Groundwater Supplies in Brown County	Alternative	Groundwater Development	806	0	0	101%	5	3	\$12,553	1	3	4	3	3	5	27	The most significant issue will be locating areas with sufficient well production and water quality	Additional study will be needed once a more specific location for this strategy has been selected
BCWID #1a (non-allocated)	Brown	Brown	Colorado	Subordination	Recommended	Subordination	5,570	0	0	101%	5	3	\$0	5	4	4	4	3	5	33		
Brookesmith SUD	Brown	Brown	Colorado	Municipal Conservation	Recommended	Conservation	25	0	0	101%	5	3	\$705	3	4	4	4	3	5	31	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Brookesmith SUD	Brown	Brown	Colorado	Water Audits and Leak Repairs	Recommended	Conservation	80	0	0	101%	5	3	\$1,509	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Brownwood	Brown	Brown	Colorado	Municipal Conservation	Recommended	Conservation	91	0	0	101%	5	3	\$937	3	4	4	4	3	5	31	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Early	Brown	Brown	Colorado	Municipal Conservation	Recommended	Conservation	9	0	0	101%	5	3	\$1,176	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Irrigation	Brown	Brown	Colorado, Brazos	Irrigation Conservation	Recommended	Conservation	650	1,711	1,713	38%	3	3	\$21	4	4	5	4	3	5	31	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Mining	Brown	Brown	Colorado	Develop Cross Timbers Aquifer Supplies	Recommended	Groundwater Development	210	263	268	78%	4	3	\$948	3	3	4	4	3	5	29	The most significant issue will be locating areas with sufficient well production	
Mining	Brown	Brown	Colorado	Mining Conservation (Recycling)	Recommended	Conservation	67	263	268	25%	1	1	\$654	3	4	4	4	3	5	25	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Zephyr WSC	Brown	Brown	Colorado	Municipal Conservation	Recommended	Conservation	13	0	0	101%	5	3	\$1,091	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Zephyr WSC	Brown	Brown	Colorado	Water Audits and Leak Repairs	Recommended	Conservation	19	0	0	101%	5	3	\$3,498	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Bronte	Coke	Runnels	Colorado	Develop Other Aquifer Supplies in Runnels County	Alternative	Groundwater Development	75	207	212	35%	3	3	\$2,787	2	3	4	4	3	5	27	The most significant issue will be locating areas with sufficient well production	
Bronte	Coke	Coke	Colorado	Develop Other Aquifer Supplies in Southwest Coke County	Recommended	Groundwater Development	800	207	212	377%	5	3	\$2,424	2	3	4	4	3	5	29	The most significant issue will be locating areas with sufficient well production	
Bronte	Coke	Coke	Colorado	Municipal Conservation	Recommended	Conservation	3	207	212	1%	1	3	\$1,647	2	4	4	4	3	5	26	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Bronte	Coke	Coke	Colorado	Rehabilitate Oak Creek Pipeline	Recommended	Expanded Use of Supply	450	207	212	212%	5	5	\$1,748	2	4	4	4	4	5	33		
Bronte	Coke	Coke	Colorado	Subordination	Recommended	Subordination	446	207	448	100%	4	3	\$0	5	4	4	4	3	5	32		
Bronte	Coke	Coke	Colorado	Water Treatment Plant Expansion	Recommended	Expanded Use of Supply	800	207	212	377%	5	3	\$1,720	2	4	4	4	4	5	31		

Entity	Entity County	Project County	Basin Used	Strategy	Recommended or Alternative	Strategy Type	Quantity (Ac-Ft/Yr)	2070	Maximum Need (Ac-Ft/Yr)	Percentage of Max Need Met	Quantity Score	Reliability	Cost (\$/Ac-Ft)	Cost Score	Impacts of Strategy on:					Overall Score (5-45)	Implementation Issues	Comments
															Environmental Factors	Agricultural Resources/ Rural Areas	Other Natural Resources	Key Water Quality Parameters	Third Party Social & Economic Factors			
Irrigation	Coke	Coke	Colorado	Irrigation Conservation	Recommended	Conservation	83	0	0	101%	5	3	\$21	4	4	5	4	3	5	33	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Mining	Coke	Coke	Colorado	Mining Conservation (Recycling)	Recommended	Conservation	20	0	0	101%	5	1	\$632	3	4	4	4	3	5	29	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Oak Creek (non-allocated)	Coke	Coke	Colorado	Subordination	Recommended	Subordination	1,025	0	0	101%	5	3	\$0	5	4	4	4	3	5	33		
Robert Lee Bronte	Coke	Nolan	Colorado	Develop Edwards-Trinity Plateau Aquifer Supplies in Nolan County	Alternative	Groundwater Development	178	0	237	32%	3	3	\$3,756	2	3	4	4	3	5	27	The most significant issue will be locating areas with sufficient well production	
Robert Lee	Coke	Tom Green	Colorado	Develop Edwards-Trinity Plateau Aquifer Supplies in Tom Green County	Alternative	Groundwater Development	75	230	237	32%	3	3	\$4,293	2	3	4	4	3	5	27	The most significant issue will be locating areas with sufficient well production	
Robert Lee	Coke	Coke	Colorado	Municipal Conservation	Recommended	Conservation	3	230	237	1%	1	3	\$1,672	2	4	4	4	3	5	26	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Robert Lee	Coke	Coke	Colorado	Purchase from Provider (Bronte)	Recommended	Purchase from Provider	80	230	237	34%	3	5	\$0	5	4	4	4	3	4	32		
Robert Lee	Coke	Coke	Colorado	Repair and Expand Water Treatment Plant	Alternative	Expanded Use of Supply	335	230	237	141%	5	5	\$2,657	2	4	4	4	TBD	5	29	Financing	1 mgd treatment expansion and new storage tank
Robert Lee	Coke	Coke	Colorado	Subordination	Recommended	Subordination	159	230	237	67%	3	3	\$0	5	4	4	4	3	5	31		
Bronte, Ballinger, Winters, Robert Lee ^a	Coke, Runnels	Coke, Runnels	Colorado	Regional System from Lake Brownwood	Alternative	Regional	2,802	641	675	415%	5	3	\$3,904	2	3	4	4	3	3	27	Still would need to reach an agreement with Brownwood and partners.	
Bronte, Ballinger, Winters, Robert Lee ^a	Coke, Runnels	Coke, Runnels	Colorado	Regional System from Lake Fort Phantom Hill	Alternative	Regional	1,155	641	675	171%	5	3	\$7,606	1	3	4	4	3	3	26	Still would need to reach an agreement with Brownwood and partners.	
Coleman	Coleman	Coleman	Colorado	Municipal Conservation	Recommended	Conservation	15	792	821	2%	1	3	\$1,065	2	4	4	4	3	5	26	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Coleman	Coleman	Coleman	Colorado	Subordination	Recommended	Subordination	1,319	792	821	161%	5	3	\$0	5	4	4	4	3	5	33		
Coleman	Coleman	Coleman	Colorado	Water Audits and Leak Repairs	Recommended	Conservation	59	792	821	7%	1	3	\$1,282	2	4	4	4	3	5	26	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Coleman County SUD	Coleman	Coleman	Colorado	Municipal Conservation	Recommended	Conservation	9	169	181	5%	1	3	\$1,144	2	4	4	4	3	5	26	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Coleman County SUD	Coleman	Coleman	Colorado	Subordination	Recommended	Subordination	227	169	181	125%	5	3	\$0	5	4	4	4	3	5	33		
County-Other	Coleman	Coleman	Colorado	Municipal Conservation	Recommended	Conservation	1	21	24	4%	1	3	\$5,095	1	4	4	4	3	5	25	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
County-Other	Coleman	Coleman	Colorado	Subordination	Recommended	Subordination	24	21	24	100%	4	3	\$0	5	4	4	4	3	5	32		
Irrigation	Coleman	Coleman	Colorado	Irrigation Conservation	Recommended	Conservation	47	396	396	12%	1	3	\$21	4	4	5	4	3	5	29	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Irrigation	Coleman	Coleman	Colorado	Subordination	Recommended	Subordination	400	396	396	101%	5	3	\$0	5	4	5	4	3	5	34		
Manufacturing	Coleman	Coleman	Colorado	Subordination	Recommended	Subordination	2	2	2	100%	4	3	\$0	5	4	4	4	3	5	32		
Mining	Coleman	Coleman	Colorado	Mining Conservation (Recycling)	Recommended	Conservation	5	0	0	101%	5	1	\$632	3	4	4	4	3	5	29	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Santa Anna	Coleman	Coleman	Colorado	Municipal Conservation	Recommended	Conservation	4	0	0	101%	5	3	\$1,623	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
County-Other	Concho	Concho	Colorado	Municipal Conservation	Recommended	Conservation	3	0	0	101%	5	3	\$1,836	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Eden	Concho	Concho	Colorado	Municipal Conservation	Recommended	Conservation	4	0	0	101%	5	3	\$1,541	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Irrigation	Concho	Concho	Colorado	Irrigation Conservation	Recommended	Conservation	539	0	0	101%	5	3	\$21	4	4	5	4	3	5	33	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Mining	Concho	Concho	Colorado	Mining Conservation (Recycling)	Recommended	Conservation	20	0	0	101%	5	1	\$632	3	4	4	4	3	5	29	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Crane	Crane	Crane	Rio Grande	Municipal Conservation	Recommended	Conservation	14	0	0	101%	5	3	\$1,120	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Mining	Crane	Crane	Rio Grande	Mining Conservation (Recycling)	Recommended	Conservation	36	0	0	101%	5	1	\$1,173	2	4	4	4	3	5	28	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Crockett County WCID 1	Crockett	Crockett	Rio Grande	Municipal Conservation	Recommended	Conservation	13	0	0	101%	5	3	\$1,106	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Irrigation	Crockett	Crockett	Rio Grande	Irrigation Conservation	Recommended	Conservation	20	0	0	101%	5	3	\$21	4	4	5	4	3	5	33	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Irrigation	Crockett	Crockett	Rio Grande	Weather Modification	Recommended	Regional	1	0	0	101%	5	1	\$0.47	4	4	5	4	4	5	32	Local opposition has caused some programs to shut down, and other programs have readjusted target areas	
Mining	Crockett	Crockett	Rio Grande	Mining Conservation (Recycling)	Recommended	Conservation	315	0	0	101%	5	1	\$632	3	4	4	4	3	5	29	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
County-Other (Future Sales)	Ector	Ector	Colorado, Rio Grande	Subordination	Recommended	Subordination	2,500	0	0	101%	5	3	\$0	5	4	4	4	3	5	33		

Entity	Entity County	Project County	Basin Used	Strategy	Recommended or Alternative	Strategy Type	Quantity (Ac-Ft/Yr)	2070	Maximum Need (Ac-Ft/Yr)	Percentage of Max Need Met	Quantity Score	Reliability	Cost (\$/Ac-Ft)	Cost Score	Impacts of Strategy on:					Overall Score (5-45)	Implementation Issues	Comments
															Environmental Factors	Agricultural Resources/ Rural Areas	Other Natural Resources	Key Water Quality Parameters	Third Party Social & Economic Factors			
Ector County Utility District	Ector	Ector	Colorado	Municipal Conservation	Recommended	Conservation	149	1,097	1,097	14%	1	3	\$292	4	4	4	4	3	5	28	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Ector County Utility District	Ector	Ector	Colorado	Subordination	Recommended	Subordination	1,097	1,097	1,097	100%	4	3	\$0	5	4	4	4	3	5	32		
Irrigation	Ector	Ector	Colorado, Rio Grande	Irrigation Conservation	Recommended	Conservation	113	0	0	101%	5	3	\$21	4	4	5	4	3	5	33	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Irrigation	Ector	Ector	Colorado, Rio Grande	Subordination	Recommended	Subordination	449	0	0	101%	5	3	\$0	5	4	5	4	3	5	34		
Manufacturing	Ector	Ector	Colorado	Subordination	Recommended	Subordination	551	0	0	101%	5	3	\$0	5	4	4	4	3	5	33		
Mining	Ector	Ector	Colorado, Rio Grande	Mining Conservation (Recycling)	Recommended	Conservation	30	0	0	101%	5	1	\$733	3	4	4	4	3	5	29	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Odessa ^a	Ector	Ward	Colorado	Develop Capitan Reef Complex Aquifer Supplies in Ward County	Alternative	Groundwater Development	8,400	20,676	20,676	41%	3	3	\$2,175	2	3	4	4	3	5	27	The most significant issue will be locating areas with sufficient well production	
Odessa ^a	Ector	Pecos	Colorado	Develop Pecos Valley/Edwards-Trinity and Capitan Reef Complex in Pecos County	Alternative	Groundwater Development	28,000	20,676	20,676	135%	5	3	\$3,249	2	3	4	4	3	5	29	The most significant issue will be locating areas with sufficient well production	
Odessa ^a	Ector	Ector	Colorado	Municipal Conservation	Recommended	Conservation	990	20,676	20,676	5%	1	3	\$440	4	4	4	4	3	5	28	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Odessa ^a	Ector	Ector	Colorado	RO Treatment of Existing Supplies	Recommended	Expanded Use of Supply	15,960	20,676	20,676	77%	4	N/A	\$1,111	2	4	4	3	3	5	25		
Odessa ^a	Ector	Ector	Colorado	Subordination	Recommended	Subordination	11,493	20,676	20,676	56%	3	3	\$0	5	4	4	4	3	5	31		
Odessa ^a (Future Sales)	Ector	Ector	Colorado	Subordination	Recommended	Subordination	3,930	0	0	101%	5	3	\$0	5	4	4	4	3	5	33		
Steam Electric Power	Ector	Ector	Colorado	Subordination	Recommended	Subordination	316	316	316	100%	4	3	\$0	5	4	4	4	3	5	32		
Greater Gardendale WSC	Ector, Midland	Ector, Midland	Colorado	Municipal Conservation	Recommended	Conservation	20	0	0	101%	5	3	\$1,108	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Greater Gardendale WSC	Ector, Midland	Ector, Midland	Colorado	Purchase from Provider (Midland FWSD)	Alternative	Purchase from Provider	445	0	0	101%	5	5	\$2,355	2	3	4	4	3	4	30		
Greater Gardendale WSC	Ector, Midland	Ector, Midland	Colorado	Purchase from Provider (Odessa)	Recommended	Purchase from Provider	445	0	0	101%	5	5	\$3,730	2	3	4	4	3	4	30		
Irrigation	Glasscock	Glasscock	Colorado	Irrigation Conservation	Recommended	Conservation	2,050	0	0	101%	5	3	\$21	4	4	5	4	3	5	33	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Mining	Glasscock	Glasscock	Colorado	Mining Conservation (Recycling)	Recommended	Conservation	248	0	0	101%	5	1	\$632	3	4	4	4	3	5	29	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Big Spring	Howard	Howard	Colorado	Municipal Conservation	Recommended	Conservation	140	1,785	1,785	8%	1	3	\$557	3	4	4	4	3	5	27	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Big Spring	Howard	Howard	Colorado	New Water Treatment Plant	Recommended	Expanded Use of Supply	11,210	1,785	1,785	628%	5	5	\$1,128	2	4	4	4	4	5	33		
Big Spring	Howard	Howard	Colorado	Subordination	Recommended	Subordination	1,785	1,785	1,785	100%	4	3	\$0	5	4	4	4	3	5	32		
Coahoma	Howard	Howard	Colorado	Municipal Conservation	Recommended	Conservation	8	152	152	5%	1	3	\$1,222	2	4	4	4	3	5	26	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Coahoma	Howard	Howard	Colorado	Subordination	Recommended	Subordination	152	152	152	100%	4	3	\$0	5	4	4	4	3	5	32		
Irrigation	Howard	Howard	Colorado	Irrigation Conservation	Recommended	Conservation	757	0	0	101%	5	3	\$21	4	4	5	4	3	5	33	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Manufacturing	Howard	Howard	Colorado	Subordination	Recommended	Subordination	424	424	424	100%	4	3	\$0	5	4	4	4	3	5	32		
Manufacturing (Future Sales)	Howard	Howard	Colorado	Subordination	Recommended	Subordination	500	0	0	101%	5	3	\$0	5	4	4	4	3	5	33		
Mining	Howard	Howard	Colorado	Mining Conservation (Recycling)	Recommended	Conservation	143	0	0	101%	5	1	\$632	3	4	4	4	3	5	29	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Steam Electric Power	Howard	Howard	Colorado	Subordination	Recommended	Subordination	59	45	45	131%	5	3	\$0	5	4	4	4	3	5	33		
Irrigation	Irion	Irion	Colorado	Irrigation Conservation	Recommended	Conservation	158	507	507	31%	3	3	\$21	4	4	5	4	3	5	31	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Irrigation	Irion	Irion	Colorado	Weather Modification	Recommended	Regional	202	507	507	40%	3	1	\$0.21	4	4	5	4	4	5	30	Local opposition has caused some programs to shut down, and other programs have readjusted target areas	
Mertzon	Irion	Irion	Colorado	Municipal Conservation	Recommended	Conservation	3	0	0	101%	5	3	\$1,886	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Mining	Irion	Irion	Colorado	Mining Conservation (Recycling)	Recommended	Conservation	322	0	1,766	18%	1	1	\$632	3	4	4	4	3	5	25	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Irrigation	Kimble	Kimble	Colorado	Irrigation Conservation	Recommended	Conservation	319	1,103	1,103	29%	3	3	\$21	4	4	5	4	3	5	31	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Junction	Kimble	Kimble	Colorado	Develop Edwards-Trinity Plateau Aquifer Supplies	Recommended	Groundwater Development	370	604	626	59%	3	3	\$1,573	2	3	4	4	3	5	27	The most significant issue will be locating areas with sufficient well production	

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															Environmental Factors	Agricultural Resources/ Rural Areas	Other Natural Resources	Key Water Quality Parameters	Third Party Social & Economic Factors			
Junction	Kimble	Kimble	Colorado	Dredging River Intake	Recommended	Expanded Use of Supply	250	604	626	40%	3	N/A	\$2,388	2	4	4	2	4	5	24	This strategy assumes that the dredged material is relatively clean. If contamination is found, a suitable disposal site will need to be identified.	A suitable location for disposal of the dredged material must be found.
Junction	Kimble	Kimble	Colorado	Municipal Conservation	Recommended	Conservation	8	604	626	1%	1	3	\$1,206	2	4	4	4	3	5	26	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Junction	Kimble	Kimble	Colorado	Subordination	Recommended	Subordination	250	604	626	40%	3	3	\$0	5	4	4	4	3	5	31		
Manufacturing	Kimble	Kimble	Colorado	Develop Ellenburger San Saba Aquifer Supplies	Recommended	Groundwater Development	500	704	704	71%	3	3	\$274	4	3	4	4	3	5	29	The most significant issue will be locating areas with sufficient well production	
Manufacturing	Kimble	Kimble	Colorado	Subordination	Recommended	Subordination	228	704	704	32%	3	3	\$0	5	4	4	4	3	5	31		
Mining	Kimble	Kimble	Colorado	Mining Conservation (Recycling)	Recommended	Conservation	1	0	0	101%	5	1	\$632	3	4	4	4	3	5	29	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Mining	Loving	Loving	Rio Grande	Mining Conservation (Recycling)	Recommended	Conservation	525	1,000	3,906	13%	1	1	\$632	3	4	4	4	3	5	25	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Irrigation	Martin	Martin	Colorado	Irrigation Conservation	Recommended	Conservation	5,474	4,882	4,882	112%	5	3	\$21	4	4	5	4	3	5	33	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Mining	Martin	Martin	Colorado	Mining Conservation (Recycling)	Recommended	Conservation	302	0	0	101%	5	1	\$632	3	4	4	4	3	5	29	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Stanton	Martin	Martin	Colorado	Municipal Conservation	Recommended	Conservation	11	90	90	12%	1	3	\$1,199	2	4	4	4	3	5	26	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Stanton	Martin	Martin	Colorado	Subordination	Recommended	Subordination	90	90	90	100%	4	3	\$0	5	4	4	4	3	5	32		
Irrigation	Mason	Mason	Colorado	Irrigation Conservation	Recommended	Conservation	745	0	0	101%	5	3	\$21	4	4	5	4	3	5	33	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Mason	Mason	Mason	Colorado	Additional Treatment	Recommended	Expanded Use of Supply	700	676	700	100%	4	3	\$856	3	4	4	3	3	5	29		
Mason	Mason	Mason	Colorado	Municipal Conservation	Recommended	Conservation	7	676	700	1%	1	3	\$1,278	2	4	4	4	3	5	26	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Mining	Mason	Mason	Colorado	Mining Conservation (Recycling)	Recommended	Conservation	43	0	0	101%	5	1	\$632	3	4	4	4	3	5	29	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Brady	McCulloch	McCulloch	Colorado	Advanced Groundwater Treatment	Recommended	Expanded Use of Supply	1,200	1,414	1,420	85%	4	5	\$2,069	2	4	4	3	4	4	30	Possible public resistance to reuse of water	Adequate monitoring and oversight will be required to protect public health and safety
Brady	McCulloch	McCulloch	Colorado	Municipal Conservation	Recommended	Conservation	19	1,414	1,420	1%	1	3	\$988	3	4	4	4	3	5	27	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Brady	McCulloch	McCulloch	Colorado	Subordination	Recommended	Subordination	841	1,414	1,420	59%	3	3	\$0	5	4	4	4	3	5	31		
Brady Creek (non-allocated)	McCulloch	McCulloch	Colorado	Subordination	Recommended	Subordination	1,109	0	0	101%	5	3	\$0	5	4	4	4	3	5	33		
Irrigation	McCulloch	McCulloch	Colorado	Irrigation Conservation	Recommended	Conservation	349	0	0	101%	5	3	\$21	4	4	5	4	3	5	33	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Mining	McCulloch	McCulloch	Colorado	Mining Conservation (Recycling)	Recommended	Conservation	375	0	0	101%	5	1	\$632	3	4	4	4	3	5	29	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Richland SUD	McCulloch	McCulloch	Colorado	Municipal Conservation	Recommended	Conservation	3	0	0	101%	5	3	\$1,712	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Irrigation	Menard	Menard	Colorado	Irrigation Conservation	Recommended	Conservation	549	0	0	101%	5	3	\$21	4	4	5	4	3	5	33	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Irrigation	Menard	Menard	Colorado	Subordination	Recommended	Subordination	537	0	0	101%	5	3	\$0	5	4	5	4	3	5	34		
Menard	Menard	Menard	Colorado	Develop Alluvial Well Supplies/Purchase Supplies from Irrigation, Menard	Recommended	Groundwater Development	1,000	196	211	474%	5	3	\$1,741	2	3	4	4	3	5	29		
Menard	Menard	Menard	Colorado	Develop Hickory Aquifer Supplies	Alternative	Groundwater Development	200	196	211	95%	4	3	\$1,320	2	3	4	4	3	5	28	The most significant issue will be locating areas with sufficient well production	This strategy assumes that the water will meet primary drinking standards once blended with City's existing supply
Menard	Menard	Menard	Colorado	Municipal Conservation	Recommended	Conservation	5	196	211	2%	1	3	\$1,442	2	4	4	4	3	5	26	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Mining	Menard	Menard	Colorado	Mining Conservation (Recycling)	Recommended	Conservation	46	0	0	101%	5	1	\$632	3	4	4	4	3	5	29	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Airline Mobile Home Park	Midland	Midland	Colorado	Municipal Conservation	Recommended	Conservation	10	0	0	101%	5	3	\$1,263	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
County-Other	Midland	Winkler	Colorado	Develop Pecos Valley Aquifer Supplies from Winkler County	Recommended	Groundwater Development	2,800	0	0	101%	5	3	\$738	3	4	4	4	3	5	31	The most significant issue will be locating areas with sufficient well production	
Greenwood Water	Midland	Midland	Colorado	Municipal Conservation	Recommended	Conservation	5	0	0	101%	5	3	\$1,716	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Irrigation	Midland	Midland	Colorado	Irrigation Conservation	Recommended	Conservation	2,716	0	1	271600%	5	3	\$21	4	4	5	4	3	5	33	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Irrigation	Midland	Midland	Colorado	Subordination	Recommended	Subordination	8	0	1	800%	5	3	\$0	5	4	5	4	3	5	34		
Midland ^a	Midland	Midland	Colorado	Advanced RO Treatment, Expanded Use of Paul Davis Well Field	Recommended	Expanded Use of Supply	6,327	18,663	18,663	34%	3	3	\$1,656	2	4	4	3	4	4	27		

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															Environmental Factors	Agricultural Resources/ Rural Areas	Other Natural Resources	Key Water Quality Parameters	Third Party Social & Economic Factors			
Midland ^a	Midland	Midland	Colorado	Municipal Conservation	Recommended	Conservation	1,012	18,663	18,663	5%	1	3	\$436	4	4	4	4	3	5	28	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Midland ^a	Midland	Midland	Colorado	Purchase from Provider (CRMWD)	Alternative	Purchase from Provider	4,000	18,663	18,663	21%	1	5	\$0	5	4	4	4	3	4	30		
Midland ^a	Midland	Midland	Colorado	Subordination	Recommended	Subordination	2,173	18,663	18,663	12%	1	3	\$0	5	4	4	4	3	5	29		
Midland ^a	Multiple	Multiple	Colorado, Rio Grande	West Texas Water Partnership	Recommended	Regional	15,000	18,663	18,663	80%	4	3	\$1,783	2	2	4	4	2	3	24	Follow up discussions will be conducted to explore necessary methodologies and agreements to implement this cooperative use strategy.	Additional study will be needed once a more specific details for this strategy have been determined.
Midland ^a	Multiple	Multiple	Colorado, Rio Grande	West Texas Water Partnership	Alternative	Regional	15,000	18,663	18,663	80%	4	3	\$1,165	2	3	4	4	2	3	25	Follow up discussions will be conducted to explore necessary methodologies and agreements to implement this cooperative use strategy.	Additional study will be needed once a more specific details for this strategy have been determined.
Mining	Midland	Midland	Colorado	Mining Conservation (Recycling)	Recommended	Conservation	445	0	0	101%	5	1	\$632	3	4	4	4	3	5	29	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Colorado City	Mitchell	Mitchell	Colorado	Develop Dockum Aquifer Supplies	Alternative	Groundwater Development	170	183	183	93%	4	3	\$1,824	2	3	4	4	3	5	28	The most significant issue will be locating areas with sufficient well production	This is not a recommended strategy due to DFC and MAG limits
Colorado City	Mitchell	Mitchell	Colorado	Municipal Conservation	Recommended	Conservation	19	183	183	10%	1	3	\$1,054	2	4	4	4	3	5	26	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Irrigation	Mitchell	Mitchell	Colorado	Irrigation Conservation	Recommended	Conservation	256	1,482	1,858	14%	1	3	\$21	4	4	5	4	3	5	29	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Lake Colorado City (non-allocated)	Mitchell	Mitchell	Colorado	Subordination	Recommended	Subordination	1,800	0	0	101%	5	3	\$0	5	4	4	4	3	5	33		
Loraine	Mitchell	Mitchell	Colorado	Municipal Conservation	Recommended	Conservation	2	0	0	101%	5	3	\$2,138	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Mining	Mitchell	Mitchell	Colorado	Mining Conservation (Recycling)	Recommended	Conservation	31	0	0	101%	5	1	\$970	3	4	4	4	3	5	29	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Mitchell County Utility	Mitchell	Mitchell	Colorado	Municipal Conservation	Recommended	Conservation	6	0	0	101%	5	3	\$1,407	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Steam Electric Power	Mitchell	Mitchell	Colorado	Indirect Non-Potable Reuse (Sales from Colorado City)	Recommended	Reuse	500	10,326	10,326	5%	1	5	\$1,428	2	3	4	3	4	4	26		
Steam Electric Power	Mitchell	Mitchell	Colorado	Subordination	Recommended	Subordination	1,170	10,326	10,326	11%	1	3	\$0	5	4	4	4	3	5	29		
CRMWD ^a	Multiple	Winkler	Colorado	Develop Additional Groundwater Supplies in Reeves, Pecos, Ward, and Winkler Co.	Alternative	Groundwater Development	10,000	25,464	25,464	39%	3	5	\$1,348	2	3	4	4	3	3	27		Additional study will be needed once a more specific location for this strategy has been selected.
CRMWD ^a	Multiple	Ward, Winkler	Colorado	Expand Ward County Well Field and Develop Winkler County Well Field	Recommended	Groundwater Development	22,400	25,464	25,464	88%	4	5	\$849	3	3	3	4	3	3	28		
CRMWD ^a	Multiple	Multiple	Colorado	Subordination	Recommended	Subordination	25,351	25,464	25,464	100%	4	3	\$0	5	4	4	4	3	5	32		
CRMWD ^a	Multiple	Ward	Colorado	Ward County Well Field Well Replacement	Recommended	Groundwater Development	10,343	25,464	25,464	41%	3	5	\$102	4	3	4	4	3	3	29		
CRMWD ^a (non-allocated)	Multiple	Multiple	Colorado	Subordination	Recommended	Subordination	19,913	25,464	25,464	78%	4	3	\$0	5	4	4	4	3	5	32		
UCRA	Multiple	Multiple	Colorado	Brush Control	Recommended	Regional	60	0	0	101%	5	2	\$850	3	3	4	2	3	5	27	Brush control is an on-going process that must be continually maintained in order to receive benefits	No attributed water savings, but it is assumed that surface water supplies gained through subordination will be more reliable
Fort Stockton	Pecos	Pecos	Rio Grande	Municipal Conservation	Recommended	Conservation	48	0	0	101%	5	3	\$484	4	4	4	4	3	5	32	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Iraan	Pecos	Pecos	Rio Grande	Municipal Conservation	Recommended	Conservation	5	0	0	101%	5	3	\$1,501	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Irrigation	Pecos	Pecos	Rio Grande	Irrigation Conservation	Recommended	Conservation	21,502	0	0	101%	5	3	\$21	4	4	5	4	3	5	33	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Irrigation	Pecos	Pecos	Rio Grande	Weather Modification	Recommended	Regional	106	0	0	101%	5	1	\$5.45	4	4	5	4	4	5	32	Local opposition has caused some programs to shut down, and other programs have readjusted target areas	
Mining	Pecos	Pecos	Rio Grande	Develop Additional Pecos Valley Aquifer Supplies	Recommended	Groundwater Development	3,000	0	3,500	86%	4	3	\$164	4	4	4	4	3	5	31		
Mining	Pecos	Pecos	Rio Grande	Mining Conservation (Recycling)	Recommended	Conservation	539	0	3,500	15%	1	1	\$632	3	4	4	4	3	5	25	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Pecos County Fresh Water	Pecos	Pecos	Rio Grande	Municipal Conservation	Recommended	Conservation	3	0	0	101%	5	3	\$1,985	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Pecos County WCID #1	Pecos	Pecos	Rio Grande	Develop Edwards-Trinity Plateau Aquifer Supplies	Recommended	Groundwater Development	250	0	0	101%	5	3	\$1,224	2	3	4	4	3	5	29	The most significant issue will be locating areas with sufficient well production	
Pecos County WCID #1	Pecos	Pecos	Rio Grande	Replacement of Transmission Pipeline	Recommended	Expanded Use of Supply	750	0	0	101%	5	5	\$2,767	2	4	4	4	3	5	32		
Pecos WCID	Pecos	Pecos	Rio Grande	Municipal Conservation	Recommended	Conservation	12	0	0	101%	5	3	\$1,166	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Big Lake	Reagan	Reagan	Colorado	Municipal Conservation	Recommended	Conservation	14	0	0	101%	5	3	\$1,139	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Irrigation	Reagan	Reagan	Colorado	Irrigation Conservation	Recommended	Conservation	3,305	0	0	101%	5	3	\$21	4	4	5	4	3	5	33	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Irrigation	Reagan	Reagan	Colorado	Weather Modification	Recommended	Regional	1,869	0	0	101%	5	1	\$0.19	4	4	5	4	4	5	32	Local opposition has caused some programs to shut down, and other programs have readjusted target areas	

Entity	Entity County	Project County	Basin Used	Strategy	Recommended or Alternative	Strategy Type	Quantity (Ac-Ft/Yr)	2070	Maximum Need (Ac-Ft/Yr)	Percentage of Max Need Met	Quantity Score	Reliability	Cost (\$/Ac-Ft)	Cost Score	Impacts of Strategy on:					Overall Score (5-45)	Implementation Issues	Comments
															Environmental Factors	Agricultural Resources/ Rural Areas	Other Natural Resources	Key Water Quality Parameters	Third Party Social & Economic Factors			
Mining	Reagan	Reagan	Colorado	Mining Conservation (Recycling)	Recommended	Conservation	445	0	0	101%	5	1	\$632	3	4	4	4	3	5	29	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Balморhea	Reeves	Reeves	Rio Grande	Develop Edwards-Trinity Plateau Aquifer Supplies	Recommended	Groundwater Development	150	147	147	102%	5	3	\$1,053	2	3	4	4	3	5	29	The most significant issue will be locating areas with sufficient well production	
Balморhea	Reeves	Reeves	Rio Grande	Municipal Conservation	Recommended	Conservation	2	147	147	1%	1	3	\$2,472	2	4	4	4	3	5	26	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Irrigation	Reeves	Reeves	Rio Grande	Irrigation Conservation	Recommended	Conservation	8,841	0	0	101%	5	3	\$21	4	4	5	4	3	5	33	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Irrigation	Reeves	Reeves	Rio Grande	Weather Modification	Recommended	Regional	326	0	0	101%	5	1	\$1.13	4	4	5	4	4	5	32	Local opposition has caused some programs to shut down, and other programs have readjusted target areas	
Madera Valley WSC	Reeves	Reeves	Rio Grande	Municipal Conservation	Recommended	Conservation	6	0	0	101%	5	3	\$1,425	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Mining	Reeves	Reeves	Rio Grande	Develop Pecos Valley Aquifer Supplies	Recommended	Groundwater Development	10,400	4,000	10,400	100%	4	3	\$173	4	3	4	4	3	5	30	The most significant issue will be locating areas with sufficient well production	
Mining	Reeves	Reeves	Rio Grande	Mining Conservation (Recycling)	Recommended	Conservation	882	4,000	10,400	8%	1	1	\$632	3	4	4	4	3	5	25	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Pecos	Reeves	Reeves	Rio Grande	Advanced Water Treatment Plant	Recommended	Expanded Use of Supply	3,360	0	0	101%	5	3	\$754	3	3	4	4	4	5	31		
Pecos	Reeves	Reeves	Rio Grande	Direct Non-Potable Reuse	Recommended	Reuse	560	0	0	101%	5	5	\$1,286	2	3	4	3	4	4	30		
Pecos	Reeves	Reeves	Rio Grande	Direct Potable Reuse	Recommended	Reuse	925	0	0	101%	5	5	\$4,961	2	3	4	3	4	4	30		
Pecos	Reeves	Reeves	Rio Grande	Indirect Potable Reuse with Aquifer Storage and Recovery	Alternative	Reuse	695	0	0	101%	5	3	\$6,790	1	3	4	4	3	5	28	The most significant issue will be locating areas with sufficient well production.	
Pecos	Reeves	Reeves	Rio Grande	Municipal Conservation	Recommended	Conservation	35	0	0	101%	5	3	\$607	3	4	4	4	3	5	31	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Pecos	Reeves	Reeves	Rio Grande	Partner with Madera Valley WSC, Expand Pecos Valley Aquifer Supplies	Recommended	Groundwater Development	8,960	0	0	101%	5	3	\$427	4	3	4	4	3	5	31		
Ballinger	Runnels	Runnels	Colorado	Municipal Conservation	Recommended	Conservation	12	0	0	101%	5	3	\$1,107	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Ballinger	Runnels	Runnels	Colorado	Subordination	Recommended	Subordination	794	0	0	101%	5	3	\$0	5	4	4	4	3	5	33		
County-Other	Runnels	Runnels	Colorado	Municipal Conservation	Recommended	Conservation	2	19	23	9%	1	3	\$1,953	2	4	4	4	3	5	26	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
County-Other	Runnels	Runnels	Colorado	Subordination	Recommended	Subordination	23	19	23	100%	4	3	\$0	5	4	4	4	3	5	32		
Irrigation	Runnels	Runnels	Colorado	Irrigation Conservation	Recommended	Conservation	373	0	0	101%	5	3	\$21	4	4	5	4	3	5	33	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Miles	Runnels	Runnels	Colorado	Municipal Conservation	Recommended	Conservation	3	48	48	6%	1	3	\$1,730	2	4	4	4	3	5	26	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Mining	Runnels	Runnels	Colorado	Mining Conservation (Recycling)	Recommended	Conservation	11	0	0	101%	5	1	\$632	3	4	4	4	3	5	29	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
North Runnels WSC	Runnels	Runnels	Colorado	Municipal Conservation	Recommended	Conservation	4	156	162	2%	1	3	\$1,407	2	4	4	4	3	5	26	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
North Runnels WSC	Runnels	Runnels	Colorado	Subordination	Recommended	Subordination	89	156	162	55%	3	3	\$0	5	4	4	4	3	5	31		
Winters	Runnels	Runnels	Colorado	Municipal Conservation	Recommended	Conservation	17	204	226	8%	1	3	\$1,191	2	4	4	4	3	5	26	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Winters	Runnels	Runnels	Colorado	Purchase from Provider (Abilene)	Recommended	Purchase from Provider	212	204	226	94%	4	5	\$668	3	3	4	4	3	4	30		
Winters	Runnels	Runnels	Colorado	Subordination	Recommended	Subordination	100	204	226	44%	3	3	\$0	5	4	4	4	3	5	31		
El Dorado	Schleicher	Schleicher	Colorado	Municipal Conservation	Recommended	Conservation	6	0	0	101%	5	3	\$1,283	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Irrigation	Schleicher	Schleicher	Colorado, Rio Grande	Irrigation Conservation	Recommended	Conservation	109	0	0	101%	5	3	\$21	4	4	5	4	3	5	33	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Irrigation	Schleicher	Schleicher	Colorado, Rio Grande	Weather Modification	Recommended	Regional	275	0	0	101%	5	1	\$0.23	4	4	5	4	4	5	32	Local opposition has caused some programs to shut down, and other programs have readjusted target areas	
Mining	Schleicher	Schleicher	Colorado, Rio Grande	Mining Conservation (Recycling)	Recommended	Conservation	31	0	0	101%	5	1	\$903	3	4	4	4	3	5	29	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
County-Other	Scurry	Scurry	Colorado, Brazos	Municipal Conservation	Recommended	Conservation	30	692	692	4%	1	3	\$863	3	4	4	4	3	5	27	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
County-Other	Scurry	Scurry	Colorado, Brazos	Purchase from Provider (Snyder)	Recommended	Purchase from Provider	607	692	692	88%	4	5	\$0	5	4	4	4	3	4	33		
County-Other	Scurry	Scurry	Colorado, Brazos	Subordination	Recommended	Subordination	85	692	692	12%	1	3	\$0	5	4	4	4	3	5	29		
Irrigation	Scurry	Scurry	Colorado, Brazos	Irrigation Conservation	Recommended	Conservation	983	6,563	6,565	15%	1	3	\$21	4	4	5	4	3	5	29	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.

Entity	Entity County	Project County	Basin Used	Strategy	Recommended or Alternative	Strategy Type	Quantity (Ac-Ft/Yr)	2070	Maximum Need (Ac-Ft/Yr)	Percentage of Max Need Met	Quantity Score	Reliability	Cost (\$/Ac-Ft)	Cost Score	Impacts of Strategy on:					Overall Score (5-45)	Implementation Issues	Comments
															Environmental Factors	Agricultural Resources/ Rural Areas	Other Natural Resources	Key Water Quality Parameters	Third Party Social & Economic Factors			
Manufacturing	Scurry	Scurry	Colorado	Develop Dockum Aquifer Supplies	Recommended	Groundwater Development	160	156	156	103%	5	3	\$356	4	4	4	4	3	5	32	The most significant issue will be locating areas with sufficient well production	
Mining	Scurry	Scurry	Colorado, Brazos	Mining Conservation (Recycling)	Recommended	Conservation	34	144	419	8%	1	1	\$1,617	2	4	4	4	3	5	24	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Snyder	Scurry	Scurry	Colorado	Municipal Conservation	Recommended	Conservation	93	814	814	11%	1	3	\$957	3	4	4	4	3	5	27	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Snyder	Scurry	Scurry	Colorado	Subordination	Recommended	Subordination	814	814	814	100%	4	3	\$0	5	4	4	4	3	5	32		
Irrigation	Sterling	Sterling	Colorado	Irrigation Conservation	Recommended	Conservation	135	0	0	101%	5	3	\$21	4	4	5	4	3	5	33	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Irrigation	Sterling	Sterling	Colorado	Weather Modification	Recommended	Regional	48	0	0	101%	5	1	\$0.39	4	4	5	4	4	5	32	Local opposition has caused some programs to shut down, and other programs have readjusted target areas	
Mining	Sterling	Sterling	Colorado	Mining Conservation (Recycling)	Recommended	Conservation	40	0	0	101%	5	1	\$931	3	4	4	4	3	5	29	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Sterling City	Sterling	Sterling	Colorado	Municipal Conservation	Recommended	Conservation	3	0	0	101%	5	3	\$1,759	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Irrigation	Sutton	Sutton	Colorado, Rio Grande	Irrigation Conservation	Recommended	Conservation	168	0	0	101%	5	3	\$21	4	4	5	4	3	5	33	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Irrigation	Sutton	Sutton	Colorado, Rio Grande	Weather Modification	Recommended	Regional	34	0	0	101%	5	1	\$0.45	4	4	5	4	4	5	32	Local opposition has caused some programs to shut down, and other programs have readjusted target areas	
Mining	Sutton	Sutton	Colorado, Rio Grande	Mining Conservation (Recycling)	Recommended	Conservation	32	0	0	101%	5	1	\$1,595	2	4	4	4	3	5	28	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Sonora	Sutton	Sutton	Rio Grande	Develop Additional Edwards-Trinity Aquifer Supplies	Recommended	Groundwater Development	35	0	0	101%	5	3	\$1,000	3	3	4	4	3	5	30		
Sonora	Sutton	Sutton	Rio Grande	Municipal Conservation	Recommended	Conservation	10	0	0	101%	5	3	\$1,187	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Sonora	Sutton	Sutton	Colorado	Water Audits and Leak Repairs	Recommended	Conservation	118	0	0	101%	5	3	\$451	4	4	4	4	3	5	32	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Concho Rural Water	Tom Green	Tom Green	Colorado	Municipal Conservation	Recommended	Conservation	24	13	13	185%	5	3	\$894	3	4	4	4	3	5	31	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Concho Rural Water	Tom Green	Tom Green	Colorado	Purchase from Provider (UCRA)	Recommended	Purchase from Provider	50	13	13	385%	5	5	\$0	5	4	4	4	3	4	34		
County-Other	Tom Green	Tom Green	Colorado	Subordination	Recommended	Subordination	70	0	0	101%	5	3	\$0	5	4	4	4	3	5	33		
DADS Supported Living Center	Tom Green	Tom Green	Colorado	Municipal Conservation	Recommended	Conservation	1	0	0	101%	5	3	\$4,116	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Goodfellow Air Force Base	Tom Green	Tom Green	Colorado	Municipal Conservation	Recommended	Conservation	11	345	345	3%	1	3	\$1,222	2	4	4	4	3	5	26	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Goodfellow Air Force Base	Tom Green	Tom Green	Colorado	Subordination	Recommended	Subordination	44	345	345	13%	1	3	\$0	5	4	4	4	3	5	29		
Irrigation	Tom Green	Tom Green	Colorado	Irrigation Conservation	Recommended	Conservation	5,099	0	0	101%	5	3	\$21	4	4	5	4	3	5	33	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Irrigation	Tom Green	Tom Green	Colorado	Weather Modification	Recommended	Regional	2,007	0	0	101%	5	1	\$0.44	4	4	5	4	4	5	32	Local opposition has caused some programs to shut down, and other programs have readjusted target areas	
Manufacturing	Tom Green	Tom Green	Colorado	Subordination	Recommended	Subordination	37	215	215	17%	1	3	\$0	5	4	4	4	3	5	29		
Millersview-Doole WSC	Tom Green	Concho	Colorado	Municipal Conservation	Recommended	Conservation	15	0	0	101%	5	3	\$1,088	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Millersview-Doole WSC	Tom Green	Concho	Colorado	Subordination	Recommended	Subordination	62	0	0	101%	5	3	\$0	5	4	4	4	3	5	33		
Millersview-Doole WSC	Tom Green	Coleman	Colorado	Water Audits and Leak Repairs	Recommended	Conservation	68	0	0	101%	5	3	\$1,045	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Mining	Tom Green	Tom Green	Colorado	Mining Conservation (Recycling)	Recommended	Conservation	49	0	0	101%	5	1	\$792	3	4	4	4	3	5	29	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
San Angelo ^a	Tom Green	Tom Green	Colorado	Brush Control	Recommended	Regional	90	13,097	13,097	1%	1	2	\$489	4	3	4	2	3	5	24	Brush control is an on-going process that must be continually maintained in order to receive benefits	No attributed water savings, but it is assumed that surface water supplies gained through subordination will be more reliable
San Angelo ^a	Tom Green	Tom Green	Colorado	Desalination of Brackish Groundwater	Alternative	Desalination	11,210	13,097	13,097	86%	4	3	\$1,062	2	4	4	3	3	5	28		
San Angelo ^a	Tom Green	Schleicher	Colorado	Develop Edwards-Trinity Plateau Aquifer Supplies in Schleicher County	Alternative	Groundwater Development	4,500	13,097	13,097	34%	3	3	\$1,800	2	3	4	4	3	5	27	The most significant issue will be locating areas with sufficient well production	
San Angelo ^a	Tom Green	Tom Green	Colorado	Develop Hickory Aquifer Supplies	Recommended	Groundwater Development	3,040	13,097	13,097	23%	1	5	\$2,321	2	3	4	4	3	5	27	The most significant issue will be locating areas with sufficient well production	
San Angelo ^a	Tom Green	Pecos	Colorado	Develop Pecos Valley/Edwards Trinity in Pecos County	Alternative	Groundwater Development	10,800	13,097	13,097	82%	4	3	\$2,604	2	3	4	4	3	5	28		The necessary infrastructure to move water from Pecos County to Tom Green County will be expensive
San Angelo ^a	Tom Green	Tom Green	Colorado	Concho River Water Project (Indirect Potable Reuse)	Recommended	Reuse	8,400	13,097	13,097	64%	3	5	\$1,250	2	3	4	3	4	2	26	Possible public resistance to reuse of water.	Adequate monitoring and oversight will be required to protect public health and safety.
San Angelo ^a	Tom Green	Tom Green	Colorado	Municipal Conservation	Recommended	Conservation	668	13,097	13,097	5%	1	3	\$448	4	4	4	4	3	5	28	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.

Entity	Entity County	Project County	Basin Used	Strategy	Recommended or Alternative	Strategy Type	Quantity (Ac-Ft/Yr)	2070	Maximum Need (Ac-Ft/Yr)	Percentage of Max Need Met	Quantity Score	Reliability	Cost (\$/Ac-Ft)	Cost Score	Impacts of Strategy on:					Overall Score (5-45)	Implementation Issues	Comments
															Environmental Factors	Agricultural Resources/ Rural Areas	Other Natural Resources	Key Water Quality Parameters	Third Party Social & Economic Factors			
San Angelo ^a	Tom Green	Tom Green	Colorado	Subordination	Recommended	Subordination	1,876	13,097	13,097	14%	1	3	\$0	5	4	4	4	3	5	29		
San Angelo ^a	Multiple	Multiple	Colorado, Rio Grande	West Texas Water Partnership	Recommended	Regional	5,000	13,097	13,097	38%	3	3	\$1,783	2	2	4	4	2	3	23	Follow up discussions will be conducted to explore necessary methodologies and agreements to implement this cooperative use strategy.	Additional study will be needed once a more specific details for this strategy have been determined.
San Angelo ^a	Multiple	Multiple	Colorado, Rio Grande	West Texas Water Partnership	Alternative	Regional	5,000	13,097	13,097	38%	3	3	\$1,165	2	3	4	4	2	3	24	Follow up discussions will be conducted to explore necessary methodologies and agreements to implement this cooperative use strategy.	Additional study will be needed once a more specific details for this strategy have been determined.
Tom Green County FWSD 3	Tom Green	Tom Green	Colorado	Municipal Conservation	Recommended	Conservation	5	0	0	101%	5	3	\$1,616	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Upper Colorado River Authority	Tom Green	Tom Green	Colorado	Subordination	Recommended	Subordination	42	0	0	101%	5	3	\$0	5	4	4	4	3	5	33		
Irrigation	Upton	Upton	Colorado, Rio Grande	Irrigation Conservation	Recommended	Conservation	1,560	0	0	101%	5	3	\$21	4	4	5	4	3	5	33	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
McCamey	Upton	Upton	Rio Grande	Municipal Conservation	Recommended	Conservation	8	0	0	101%	5	3	\$1,264	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Mining	Upton	Upton	Colorado, Rio Grande	Mining Conservation (Recycling)	Recommended	Conservation	101	0	0	101%	5	1	\$632	3	4	4	4	3	5	29	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Rankin	Upton	Upton	Rio Grande	Municipal Conservation	Recommended	Conservation	3	0	0	101%	5	3	\$1,848	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Barstow	Ward	Ward	Rio Grande	Municipal Conservation	Recommended	Conservation	1	0	0	101%	5	3	\$3,068	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Grandfalls	Ward	Ward	Rio Grande	Develop Pecos Valley Aquifer Supplies	Recommended	Groundwater Development	155	155	155	100%	4	3	\$1,245	2	3	4	4	3	5	28	The most significant issue will be locating areas with sufficient well production	
Grandfalls	Ward	Ward	Rio Grande	Municipal Conservation	Recommended	Conservation	2	155	155	1%	1	3	\$2,804	2	4	4	4	3	5	26	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Grandfalls	Ward	Ward	Rio Grande	Purchase from Provider (CRMWD)	Alternative	Purchase from Provider	155	155	155	100%	4	5	\$0	5	4	4	4	3	4	33		
Irrigation	Ward	Ward	Rio Grande	Irrigation Conservation	Recommended	Conservation	474	0	0	101%	5	3	\$21	4	4	5	4	3	5	33	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Irrigation	Ward	Ward	Rio Grande	Weather Modification	Recommended	Regional	259	0	0	101%	5	1	\$0.57	4	4	5	4	4	5	32	Local opposition has caused some programs to shut down, and other programs have readjusted target areas	
Mining	Ward	Ward	Rio Grande	Mining Conservation (Recycling)	Recommended	Conservation	80	0	0	101%	5	1	\$632	3	4	4	4	3	5	29	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Monahans	Ward	Ward	Rio Grande	Municipal Conservation	Recommended	Conservation	27	0	0	101%	5	3	\$763	3	4	4	4	3	5	31	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Southwest Sandhills WSC	Ward	Ward	Rio Grande	Municipal Conservation	Recommended	Conservation	30	0	0	101%	5	3	\$863	3	4	4	4	3	5	31	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Wickett	Ward	Ward	Rio Grande	Municipal Conservation	Recommended	Conservation	2	0	0	101%	5	3	\$2,487	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Irrigation	Winkler	Winkler	Rio Grande	Irrigation Conservation	Recommended	Conservation	526	0	0	101%	5	3	\$21	4	4	5	4	3	5	33	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Kermit	Winkler	Winkler	Rio Grande	Municipal Conservation	Recommended	Conservation	19	0	0	101%	5	3	\$964	3	4	4	4	3	5	31	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Mining	Winkler	Winkler	Rio Grande	Mining Conservation (Recycling)	Recommended	Conservation	49	0	0	101%	5	1	\$1,315	2	4	4	4	3	5	28	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.
Wink	Winkler	Winkler	Rio Grande	Municipal Conservation	Recommended	Conservation	5	0	0	101%	5	3	\$1,665	2	4	4	4	3	5	30	Site specific data needed. May require financial and technical assistance.	Conservation based on generic assessment. Site-specific data not available.

a. Wholesale water provider or water user group strategy that supplies to multiple customers, including potential future customers.

Note: Grey italics indicates projects that are needed to access supplies from other strategies and are not included in supply totals to avoid double counting.

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Attachment 4
Changes to Appendix F - WMS Tables

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APPENDIX F
TABLE OF RECOMMENDED AND ALTERNATIVE WATER
MANAGEMENT STRATEGIES

Table F-1
Summary of Recommended Strategies

Entity	County Used	Expected Online	Capital Cost	First Decade Unit Cost (\$/ac-ft/yr)	Total Yield						Last Decade Unit Cost (\$/ac-ft/yr)
					2020	2030	2040	2050	2060	2070	
Brush Control											
BCWID	Multiple	2020	\$0	\$390	400	400	400	400	400	400	\$390
San Angelo	Multiple	2020	\$0	\$489	90	90	90	90	90	90	\$489
UCRA	Multiple	2020	\$0	\$850	60	60	60	60	60	60	\$850
Develop Alluvial Wells											
Menard	Menard	2020	\$13,835,000	\$1,741	1,000	1,000	1,000	1,000	1,000	1,000	\$768
Develop Cross Timbers Aquifer Supplies											
Mining	Brown	2020	\$2,440,000	\$948	210	210	210	210	210	210	\$129
Develop Edwards-Trinity Plateau Aquifer Supplies											
Bronte	Nolan	2030	\$4,232,000	\$4,293	0	178	178	178	178	178	\$400
Junction	Kimble	2030	\$7,457,000	\$1,573	0	370	370	370	370	370	\$154
Pecos County WCID #1	Pecos	2020	\$3,630,000	\$1,224	250	250	250	250	250	250	\$204
Balmorhea	Reeves	2030	\$1,948,000	\$1,053	0	150	150	150	150	150	\$140
Develop Ellenberger San Saba Aquifer Supplies											
Manufacturing	Kimble	2020	\$1,621,000	\$274	500	500	500	500	500	500	\$46
Develop Hickory Aquifer Supplies											
San Angelo	Ector	2030	\$55,491,000	\$2,321	0	1,040	3,040	3,040	3,040	3,040	\$1,037
Develop Other Aquifer Supplies											
Bronte	Coke	2020	\$23,694,000	\$2,424	800	800	800	800	800	800	\$340
Manufacturing	Scurry	2020	\$677,000	\$356	160	160	160	160	160	160	\$56
Develop Pecos Valley Aquifer Supplies											
Colorado River MWD	Multiple	2050	\$168,324,000	\$849	0	0	0	22,400	22,400	22,400	\$321
County-Other	Midland	2030	\$24,557,000	\$738	0	2,800	2,800	2,800	2,800	2,800	\$121
Mining	Pecos	2020	\$492,000	\$164	3,000	3,000	3,000	3,000	3,000	3,000	\$55
Mining	Reeves	2020	\$17,465,000	\$173	10,400	10,400	10,400	10,400	10,400	10,400	\$54
Grandfalls	Ward	2050	\$2,410,000	\$1,245	0	0	0	155	155	155	\$148
Dredging River Intake											
Junction	Kimble	2020	\$8,487,000	\$2,388	0	250	250	250	250	250	\$0
Groundwater Strategies											
Colorado River MWD	Multiple	2030	\$10,440,000	\$102	0	755	2,650	6,295	8,361	10,343	\$76
Pecos	Reeves	2020	\$43,107,000	\$427	0	8,960	8,960	8,960	8,960	8,960	\$89

Table F-1
Summary of Recommended Strategies

Entity	County Used	Expected Online	Capital Cost	First Decade Unit Cost (\$/ac-ft/yr)	Total Yield						Last Decade Unit Cost (\$/ac-ft/yr)
					2020	2030	2040	2050	2060	2070	
Sonora	Sutton	2020	\$437,000	\$1,000	35	35	35	35	35	35	\$114
Irrigation Conservation											
Irrigation	Andrews	2020	\$1,548,000	\$21	1,018	2,037	2,037	2,037	2,037	2,037	\$0
Irrigation	Borden	2020	\$224,000	\$21	147	295	295	295	295	295	\$0
Irrigation	Brown	2020	\$494,000	\$21	406	650	650	650	650	650	\$0
Irrigation	Coke	2020	\$63,000	\$21	34	69	83	83	83	83	\$0
Irrigation	Coleman	2020	\$35,000	\$21	23	47	47	47	47	47	\$0
Irrigation	Concho	2020	\$410,000	\$21	245	490	539	539	539	539	\$0
Irrigation	Crockett	2020	\$15,000	\$21	7	14	20	20	20	20	\$0
Irrigation	Ector	2020	\$86,000	\$21	38	76	113	113	113	113	\$0
Irrigation	Glasscock	2020	\$1,558,000	\$21	2,050	2,050	2,050	2,050	2,050	2,050	\$0
Irrigation	Howard	2020	\$575,000	\$21	344	688	757	757	757	757	\$0
Irrigation	Irion	2020	\$120,000	\$21	53	105	158	158	158	158	\$0
Irrigation	Kimble	2020	\$242,000	\$21	133	266	319	319	319	319	\$0
Irrigation	Martin	2020	\$4,160,000	\$21	1,825	3,649	5,474	5,474	5,474	5,474	\$0
Irrigation	Mason	2020	\$566,000	\$21	248	497	745	745	745	745	\$0
Irrigation	McCulloch	2020	\$265,000	\$21	116	232	349	349	349	349	\$0
Irrigation	Menard	2020	\$418,000	\$21	183	366	549	549	549	549	\$0
Irrigation	Midland	2020	\$2,064,000	\$21	905	1,811	2,716	2,716	2,716	2,716	\$0
Irrigation	Mitchell	2020	\$194,000	\$21	256	256	256	256	256	256	\$0
Irrigation	Pecos	2020	\$16,341,000	\$21	7,167	14,335	21,502	21,502	21,502	21,502	\$0
Irrigation	Reagan	2020	\$2,512,000	\$21	1,102	2,203	3,305	3,305	3,305	3,305	\$0
Irrigation	Reeves	2020	\$6,719,000	\$21	2,947	5,894	8,841	8,841	8,841	8,841	\$0
Irrigation	Runnels	2020	\$283,000	\$21	155	311	373	373	373	373	\$0
Irrigation	Schleicher	2020	\$83,000	\$21	91	109	109	109	109	109	\$0
Irrigation	Scurry	2020	\$747,000	\$21	378	756	983	983	983	983	\$0
Irrigation	Sterling	2020	\$102,000	\$21	45	90	135	135	135	135	\$0
Irrigation	Sutton	2020	\$128,000	\$21	56	112	168	168	168	168	\$0
Irrigation	Tom Green	2020	\$3,875,000	\$21	2,125	4,249	5,099	5,099	5,099	5,099	\$0
Irrigation	Upton	2020	\$1,186,000	\$21	520	1,040	1,560	1,560	1,560	1,560	\$0
Irrigation	Ward	2020	\$360,000	\$21	158	316	474	474	474	474	\$0

Table F-1
Summary of Recommended Strategies

Entity	County Used	Expected Online	Capital Cost	First Decade Unit Cost (\$/ac-ft/yr)	Total Yield						Last Decade Unit Cost (\$/ac-ft/yr)
					2020	2030	2040	2050	2060	2070	
Irrigation	Winkler	2020	\$400,000	\$21	175	351	526	526	526	526	\$0
Mining Conservation (Recycling)											
Mining	Andrews	2020	\$5,540,000	\$632	277	260	222	176	135	104	\$0
Mining	Borden	2020	\$780,000	\$1,117	29	39	33	21	10	5	\$0
Mining	Brown	2020	\$1,340,000	\$654	66	66	67	67	66	66	\$0
Mining	Coke	2020	\$400,000	\$632	20	20	18	16	14	12	\$0
Mining	Coleman	2020	\$100,000	\$632	5	4	4	4	3	3	\$0
Mining	Concho	2020	\$400,000	\$632	20	20	18	15	13	12	\$0
Mining	Crane	2020	\$720,000	\$1,173	26	35	36	29	22	17	\$0
Mining	Crockett	2020	\$6,300,000	\$632	315	315	43	24	7	3	\$0
Mining	Ector	2020	\$600,000	\$733	28	30	27	22	18	15	\$0
Mining	Glasscock	2020	\$4,960,000	\$632	248	248	189	134	88	63	\$0
Mining	Howard	2020	\$2,860,000	\$632	143	143	101	59	25	13	\$0
Mining	Irion	2020	\$6,440,000	\$632	322	322	231	28	14	7	\$0
Mining	Kimble	2020	\$20,000	\$632	1	1	1	1	1	1	\$0
Mining	Loving	2020	\$10,500,000	\$632	525	525	462	378	301	238	\$0
Mining	Martin	2020	\$6,040,000	\$632	302	302	227	49	27	14	\$0
Mining	Mason	2020	\$860,000	\$632	43	40	30	24	19	16	\$0
Mining	McCulloch	2020	\$7,500,000	\$632	375	351	279	236	203	176	\$0
Mining	Menard	2020	\$920,000	\$632	46	45	40	35	30	26	\$0
Mining	Midland	2020	\$8,900,000	\$632	445	445	344	231	46	32	\$0
Mining	Mitchell	2020	\$620,000	\$970	25	31	27	21	16	12	\$0
Mining	Pecos	2020	\$10,780,000	\$632	539	539	539	434	67	52	\$0
Mining	Reagan	2020	\$8,900,000	\$632	445	445	323	62	24	8	\$0
Mining	Reeves	2020	\$17,640,000	\$632	882	882	847	693	546	434	\$0
Mining	Runnels	2020	\$220,000	\$632	11	11	10	9	8	7	\$0
Mining	Schleicher	2020	\$620,000	\$903	26	31	24	16	10	6	\$0
Mining	Scurry	2020	\$680,000	\$1,617	20	32	34	25	17	12	\$0
Mining	Sterling	2020	\$800,000	\$931	33	40	34	22	11	6	\$0
Mining	Sutton	2020	\$640,000	\$1,595	19	30	32	24	16	11	\$0
Mining	Tom Green	2020	\$980,000	\$792	44	45	47	47	48	49	\$0
Mining	Upton	2020	\$2,020,000	\$632	101	101	80	53	32	22	\$0

Table F-1
Summary of Recommended Strategies

Entity	County Used	Expected Online	Capital Cost	First Decade Unit Cost (\$/ac-ft/yr)	Total Yield						Last Decade Unit Cost (\$/ac-ft/yr)
					2020	2030	2040	2050	2060	2070	
Mining	Ward	2020	\$1,600,000	\$632	80	80	71	55	38	25	\$0

Table F-1
Summary of Recommended Strategies

Entity	County Used	Expected Online	Capital Cost	First Decade Unit Cost (\$/ac-ft/yr)	Total Yield						Last Decade Unit Cost (\$/ac-ft/yr)
					2020	2030	2040	2050	2060	2070	
Mining	Winkler	2020	\$980,000	\$1,315	33	49	42	32	22	16	\$0
Municipal Conservation											
Airline Mobile Home Park	Midland	2020	\$0	\$1,263	7	7	8	9	10	10	\$1,134
Andrews	Andrews	2020	\$0	\$952	45	55	96	111	129	150	\$592
County-Other	Andrews	2020	\$0	\$1,080	14	15	17	18	20	21	\$821
Ballinger	Runnels	2020	\$0	\$1,107	12	12	12	12	12	12	\$1,101
Bangs	Brown	2020	\$0	\$1,221	8	8	8	8	8	8	\$2,189
Balморhea	Reeves	2020	\$0	\$2,472	2	2	2	2	2	2	\$1,214
Barstow	Ward	2020	\$0	\$3,068	1	1	1	1	1	1	\$2,731
Big Lake	Reagan	2020	\$0	\$1,139	10	12	12	13	13	14	\$1,079
Big Spring	Howard	2020	\$0	\$557	131	138	140	139	139	139	\$620
Brady	McCulloch	2020	\$0	\$988	18	18	19	19	19	19	\$930
Bronte	Coke	2020	\$0	\$1,647	3	3	3	3	3	3	\$1,647
Brookesmith SUD	Brown	2020	\$0	\$705	25	25	25	25	25	25	\$688
Brownwood	Brown	2020	\$0	\$937	61	91	91	91	91	91	\$735
Coahoma	Howard	2020	\$0	\$1,222	8	8	8	8	8	8	\$1,203
Coleman	Coleman	2020	\$0	\$1,065	15	15	15	15	15	15	\$1,061
County-Other	Coleman	2020	\$0	\$5,095	1	1	1	1	1	1	\$1,138
Coleman County SUD	Coleman	2020	\$0	\$1,144	9	9	9	9	9	9	\$5,161
Colorado City	Mitchell	2020	\$0	\$1,054	16	18	18	18	18	19	\$938
Concho Rural WSC	Tom Green	2020	\$0	\$894	20	21	22	23	24	24	\$1,821
County-Other	Concho	2020	\$0	\$1,836	3	3	3	3	3	3	\$714
Crockett County WCID	Crockett	2020	\$0	\$1,106	12	13	13	13	13	13	\$1,070
Crane	Crane	2020	\$0	\$1,120	11	12	13	13	14	14	\$1,083
DADS SLC	Tom Green	2020	\$0	\$4,116	1	1	1	1	1	1	\$4,116
Early	Brown	2020	\$0	\$1,176	9	9	9	9	9	9	\$1,170
Ector County Utility District	Ector	2020	\$0	\$292	60	84	94	125	137	149	\$598
Eden	Concho	2020	\$0	\$1,541	4	4	4	4	4	4	\$1,518
El Dorado	Schleicher	2020	\$0	\$1,283	6	6	6	6	6	6	\$1,283
Fort Stockton	Pecos	2020	\$0	\$484	36	39	42	44	46	48	\$363

Table F-1
Summary of Recommended Strategies

Entity	County Used	Expected Online	Capital Cost	First Decade Unit Cost (\$/ac-ft/yr)	Total Yield						Last Decade Unit Cost (\$/ac-ft/yr)
					2020	2030	2040	2050	2060	2070	
Goodfellow AFB	Tom Green	2020	\$0	\$1,222	8	9	9	10	10	11	\$1,123
Grandfalls	Ward	2020	\$0	\$2,804	1	1	1	1	2	2	\$2,509
Greater Gardendale WSC	Ector	2020	\$0	\$1,108	12	13	15	17	19	20	\$859
Greenwood Water	Midland	2020	\$0	\$1,716	3	3	4	4	4	5	\$1,430
Iraan	Pecos	2020	\$0	\$1,501	4	4	5	5	5	5	\$1,351
Junction	Kimble	2020	\$0	\$1,206	8	8	8	8	8	8	\$1,203
Kermit	Winkler	2020	\$0	\$964	18	18	19	19	19	19	\$916
Loraine	Mitchell	2020	\$0	\$2,138	2	2	2	2	2	2	\$2,039
Madera Valley WSC	Reeves	2020	\$0	\$1,425	5	5	5	6	6	6	\$1,330
Mason	Mason	2020	\$0	\$1,278	7	7	7	7	7	7	\$1,278
McCamey	Upton	2020	\$0	\$1,264	7	7	8	8	8	8	\$1,203
Menard	Menard	2020	\$0	\$1,442	5	5	5	5	5	5	\$1,442
Mertzon	Irion	2020	\$0	\$1,886	3	3	3	3	3	3	\$1,875
Midland	Midland	2020	\$0	\$436	631	755	816	882	944	1012	\$428
Miles	Runnels	2020	\$0	\$1,730	3	3	3	3	3	3	\$1,614
Mitchell County Utility	Mitchell	2020	\$0	\$1,407	5	5	5	5	5	6	\$1,068
Millersview-Doole WSC	Tom Green	2020	\$0	\$1,088	13	14	14	14	14	15	\$1,347
Monahans	Ward	2020	\$0	\$763	23	24	25	26	27	27	\$645
North Runnels WSC	Runnels	2020	\$0	\$1,407	4	4	4	4	4	4	\$1,375
Odessa	Ector	2020	\$0	\$440	568	680	752	829	905	990	\$427
Pecos	Reeves	2020	\$0	\$607	29	31	33	34	35	35	\$498
Pecos WCID	Pecos	2020	\$0	\$1,166	9	10	11	11	12	12	\$1,716
Pecos County Fresh Water	Pecos	2020	\$0	\$1,985	2	2	3	3	3	3	\$1,099
Rankin	Upton	2020	\$0	\$1,848	3	3	3	3	3	3	\$1,690
Richland SUD	McCulloch	2020	\$0	\$1,712	3	3	3	3	3	3	\$1,665
Robert Lee	Coke	2020	\$0	\$1,672	3	3	3	3	3	3	\$1,672
County-Other	Runnels	2020	\$0	\$1,953	2	2	2	2	2	2	\$1,988
San Angelo	Tom Green	2020	\$0	\$448	459	532	558	592	629	668	\$444
Snyder	Scurry	2020	\$0	\$957	41	47	51	55	59	93	\$1,606
Santa Anna	Coleman	2020	\$0	\$1,623	3	4	4	4	4	4	\$589
County-Other	Scurry	2020	\$0	\$863	20	22	24	26	28	30	\$720

Table F-1
Summary of Recommended Strategies

Entity	County Used	Expected Online	Capital Cost	First Decade Unit Cost (\$/ac-ft/yr)	Total Yield						Last Decade Unit Cost (\$/ac-ft/yr)
					2020	2030	2040	2050	2060	2070	
Sonora	Sutton	2020	\$0	\$1,187	9	9	9	10	10	10	\$1,152
Southwest Sandhills WSC	Ward	2020	\$0	\$863	20	22	24	26	28	30	\$589
Stanton	Martin	2020	\$0	\$1,199	8	9	10	10	11	11	\$1,124
Sterling City	Sterling	2020	\$0	\$1,759	3	3	3	3	3	3	\$1,718
Tom Green County FWSD 3	Tom Green	2020	\$0	\$1,616	3	4	4	4	5	5	\$1,409
Wickett	Ward	2020	\$0	\$2,487	2	2	2	2	2	2	\$2,240
Wink	Winkler	2020	\$0	\$1,665	3	4	4	4	4	5	\$1,449
Winters	Runnels	2020	\$0	\$1,191	17	12	9	9	9	9	\$1,183

Table F-1
Summary of Recommended Strategies

Entity	County Used	Expected Online	Capital Cost	First Decade Unit Cost (\$/ac-ft/yr)	Total Yield						Last Decade Unit Cost (\$/ac-ft/yr)
					2020	2030	2040	2050	2060	2070	
Zephyr WSC	Brown	2020	\$0	\$1,091	13	13	13	13	13	13	\$1,087
New or Additional Treatment											
<i>Bronte</i>	<i>Coke</i>	<i>2030</i>	<i>\$10,270,000</i>	<i>\$1,720</i>	<i>0</i>	<i>800</i>	<i>800</i>	<i>800</i>	<i>800</i>	<i>800</i>	<i>\$816</i>
<i>Odessa</i>	<i>Ector</i>	<i>2030</i>	<i>\$83,062,000</i>	<i>\$1,111</i>	<i>0</i>	<i>15,700</i>	<i>15,700</i>	<i>15,700</i>	<i>15,700</i>	<i>15,700</i>	<i>\$738</i>
<i>Big Spring</i>	<i>Howard</i>	<i>2030</i>	<i>\$104,651,000</i>	<i>\$1,128</i>	<i>0</i>	<i>11,210</i>	<i>11,210</i>	<i>11,210</i>	<i>11,210</i>	<i>11,210</i>	<i>\$471</i>
Brady	McCulloch	2020	\$29,719,000	\$2,069	1,200	1,200	1,200	1,200	1,200	1,200	\$327
Mason	Mason	2020	\$2,605,000	\$856	700	700	700	700	700	700	\$594
Midland	Multiple	2040	\$60,804,000	\$1,701	0	0	5,899	6,101	6,235	6,327	\$1,025
Pecos	Reeves	2030	\$27,680,000	\$754	0	3,360	3,360	3,360	3,360	3,360	\$319
Rehabilitation/Replacement of Infrastructure											
<i>Bronte</i>	<i>Coke</i>	<i>2030</i>	<i>\$9,896,000</i>	<i>\$1,748</i>	<i>0</i>	<i>450</i>	<i>450</i>	<i>450</i>	<i>450</i>	<i>450</i>	<i>\$202</i>
<i>Pecos County WCID #1</i>	<i>Pecos</i>	<i>2020</i>	<i>\$26,102,000</i>	<i>\$2,767</i>	<i>750</i>	<i>750</i>	<i>750</i>	<i>750</i>	<i>750</i>	<i>750</i>	<i>\$317</i>
Reuse											
Steam Electric Power	Mitchell	2020	\$8,642,000	\$1,428	500	500	500	500	500	500	\$212
San Angelo	Multiple	2020	\$116,861,000	\$1,250	8,400	8,400	8,400	8,400	8,400	8,400	\$269
Pecos	Reeves	2030	\$29,541,000	\$4,961		925	925	925	925	925	\$2,443

Table F-1
Summary of Recommended Strategies

Entity	County Used	Expected Online	Capital Cost	First Decade Unit Cost (\$/ac-ft/yr)	Total Yield						Last Decade Unit Cost (\$/ac-ft/yr)
					2020	2030	2040	2050	2060	2070	
Pecos	Reeves	2020	\$8,707,000	\$1,286	560	560	560	560	560	560	\$191
Subordination											
Ballinger	Runnels	2020	\$0	\$0	794	751	750	748	753	791	\$0
County-Other	Runnels	2020	\$0	\$0	23	21	19	18	18	19	\$0
North Runnels WSC	Runnels	2020	\$0	\$0	86	86	87	87	87	89	\$0
Brady	McCulloch	2020	\$0	\$0	841	841	841	841	841	841	\$0
Steam Electric Power	Mitchell	2020	\$0	\$0	1,170	1,156	1,142	1,128	1,114	1,100	\$0
Junction	Kimble	2020	\$0	\$0	250	250	250	250	250	250	\$0
Manufacturing	Kimble	2020	\$0	\$0	228	228	228	228	228	228	\$0
Abilene ^a	Taylor, Jones	2020	\$0	\$0	329	359	391	421	453	483	\$0
Midland ^a	Midland	2020	\$0	\$0	2,173	359	391	421	453	483	\$0
Millersview-Doole WSC	Tom Green	2020	\$0	\$0	52	0	0	0	9	62	\$0
Odessa	Ector	2020	\$0	\$0	2,451	0	0	3,492	7,263	11,493	\$0
Ector County Utility District	Ector	2020	\$0	\$0	234	0	0	332	694	1,097	\$0
Irrigation	Ector	2020	\$0	\$0	157	0	0	162	312	449	\$0
Irrigation	Midland	2020	\$0	\$0	3	0	0	2	6	8	\$0
Manufacturing	Ector	2020	\$0	\$0	186	0	0	199	381	551	\$0
Steam Electric Power	Ector	2020	\$0	\$0	109	0	0	114	219	316	\$0
Big Spring	Howard	2020	\$0	\$0	611	0	0	647	1,233	1,785	\$0
Coahoma	Howard	2020	\$0	\$0	51	0	0	56	105	152	\$0
Manufacturing	Howard	2020	\$0	\$0	147	0	0	153	293	424	\$0
Steam Electric Power	Howard	2020	\$0	\$0	21	0	0	22	40	59	\$0
Snyder	Scurry	2020	\$0	\$0	194	0	0	256	524	814	\$0
County-Other	Scurry	2020	\$0	\$0	29	0	0	31	59	85	\$0
Rotan	Fisher	2020	\$0	\$0	18	0	0	17	32	46	\$0
Stanton	Martin	2020	\$0	\$0	31	0	0	33	62	90	\$0
Irrigation	Coleman	2020	\$0	\$0	400	400	400	400	400	400	\$0
Coleman	Coleman	2020	\$0	\$0	1,319	1,296	1,276	1,255	1,227	1,200	\$0
Coleman County SUD	Coleman	2020	\$0	\$0	227	225	218	214	215	215	\$0
County-Other	Coleman	2020	\$0	\$0	24	22	22	21	21	21	\$0
Manufacturing	Coleman	2020	\$0	\$0	2	2	2	2	2	2	\$0

Table F-1
Summary of Recommended Strategies

Entity	County Used	Expected Online	Capital Cost	First Decade Unit Cost (\$/ac-ft/yr)	Total Yield						Last Decade Unit Cost (\$/ac-ft/yr)
					2020	2030	2040	2050	2060	2070	
County-Other	Tom Green	2020	\$0	\$0	70	70	70	70	70	70	\$0
Bronte	Coke	2020	\$0	\$0	212	210	209	207	207	207	\$0
Robert Lee	Coke	2020	\$0	\$0	237	239	240	240	240	240	\$0
San Angelo ^a	Tom Green	2020	\$0	\$0	1,875	1,819	1,766	1,709	1,656	1,600	\$0
Upper Colorado River Authority	Tom Green	2020	\$0	\$0	42	37	33	30	26	23	\$0
Goodfellow Air Force Base	Tom Green	2020	\$0	\$0	44	42	40	38	35	33	\$0
Manufacturing	Tom Green	2020	\$0	\$0	37	36	32	29	26	22	\$0
Winters	Runnels	2020	\$0	\$0	100	99	98	98	98	97	\$0
Irrigation	Menard	2020	\$0	\$0	537	537	537	537	537	537	\$0
Menard	Menard	2020	\$0	\$0	1,000	1,000	1,000	1,000	1,000	1,000	\$0
Brady Creek (non-allocated)	McCulloch	2020	\$0	\$0	1,109	1,069	1,029	989	949	909	\$0
BCWID (non-allocated)	Brown	2020	\$0	\$0	5,440	5,466	5,492	5,518	5,544	5,570	\$0
CRMWD (non-allocated)	Tom Green	2020	\$0	\$0	19,749	19,911	18,533	13,002	7,245	972	\$0
Oak Creek (non-allocated)	Coke	2020	\$0	\$0	577	540	503	468	431	394	\$0
Lake Colorado City (non-allocated)	Mitchell	2020	\$0	\$0	1,800	1,750	1,700	1,650	1,600	1,550	\$0
Odessa (Future Sales)	Ector, Midland	2020	\$0	\$0	3,930	3,930	3,930	3,930	3,930	3,930	\$0
Manufacturing, Howard (Future Sales)	Howard	2030	\$0	\$0	0	500	500	500	500	500	\$0
Greater Gardendale WSC (Future Sales)	Ector	2030	\$0	\$0	0	375	445	445	445	445	\$0
County-Other (Future Sales)	Ector	2030	\$0	\$0	0	1,200	2,500	2,500	2,500	2,500	\$0
County-Other (Future Sales)	Scurry	2020	\$0	\$0	373	414	447	491	547	607	\$0
Voluntary Transfer (Purchase)											
Robert Lee	Coke	2020	\$0	\$0	80	80	80	80	80	80	\$0
Concho Rural WSC	Ector	2020	\$0	\$0	50	50	50	50	50	50	\$0

Table F-1
Summary of Recommended Strategies

Entity	County Used	Expected Online	Capital Cost	First Decade Unit Cost (\$/ac-ft/yr)	Total Yield						Last Decade Unit Cost (\$/ac-ft/yr)
					2020	2030	2040	2050	2060	2070	
Greater Gardendale WSC	Ector	2020	\$6,078,000	\$3,730	0	375	445	445	445	445	\$2,769
Winters	Runnels	2020	\$974,000	\$668	212	212	212	212	212	212	\$355
County-Other	Scurry	2020	\$0	\$0	373	414	447	491	547	607	\$0
Water Audits and Leak Repairs											
Brookesmith SUD	Brown	2020	\$1,737,000	\$1,509	80	80	78	77	77	77	\$1,584
Coleman	Coleman	2020	\$1,074,800	\$1,282	59	58	57	57	57	57	\$1,340
Millersview-Doole WSC	Tom Green	2020	\$965,800	\$1,045	65	66	65	66	67	68	\$1,076
Sonora	Sutton	2020	\$679,900	\$451	106	112	114	116	117	118	\$438
Zephyr WSC	Brown	2020	\$944,700	\$3,498	19	19	18	18	18	18	\$3,732
Weather Modification											
Irrigation	Crocket	2020	\$0	\$0.47	1	1	1	1	1	1	\$0.47
Irrigation	Irion	2020	\$0	\$0.21	202	202	202	202	202	202	\$0.21
Irrigation	Pecos	2020	\$0	\$5.45	106	106	106	106	106	106	\$5.45
Irrigation	Reagan	2020	\$0	\$0.19	1,869	1,869	1,869	1,869	1,869	1,869	\$0.19
Irrigation	Reeves	2020	\$0	\$1.13	326	326	326	326	326	326	\$1.13
Irrigation	Schleicher	2020	\$0	\$0.23	275	275	275	275	275	275	\$0.23
Irrigation	Sterling	2020	\$0	\$0.39	48	48	48	48	48	48	\$0.39
Irrigation	Sutton	2020	\$0	\$0.45	34	34	34	34	34	34	\$0.45
Irrigation	Tom Green	2020	\$0	\$0.44	2,007	2,007	2,007	2,007	2,007	2,007	\$0.44
Irrigation	Ward	2020	\$0	\$0.57	259	259	259	259	259	259	\$0.57
West Texas Water Partnership^b											
Abilene	Multiple	2030	\$549,093,000	\$1,783	0	8,400	8,400	8,400	8,400	8,400	\$403
Midland					0	15,000	15,000	15,000	15,000	15,000	
San Angelo					0	5,000	5,000	5,000	5,000	5,000	

Note: Grey italics indicates projects that are needed to access supplies from other strategies and are not included in the total to avoid double counting.

- a. Subordination supply is based on a contract for 16.54% of the safe yield of Lake Ivie. This supply changes with the implementation of the West Texas Water Partnership
- b. Capital and unit costs for the West Texas Water Partnership will be shared between the partnership (Abilene, Midland, and San Angelo).

Table F-2
Summary of Alternative Strategies

Entity	County Used	Expected Implementation Date	Capital Cost	First Decade Unit Cost (\$/ac-ft/yr)	Total Yield						Last Decade Unit Cost (\$/ac-ft/yr)
					2020	2030	2040	2050	2060	2070	
Desalination											
San Angelo	Tom Green	2030	\$70,709,000	\$1,062	0	11,210	11,210	11,210	11,210	11,210	\$618
Develop Capitan Reef Complex Aquifer Supplies											
Odessa	Ward	2040	\$154,165,000	\$2,175	0	0	8,400	8,400	8,400	8,400	\$884
Develop Dockum Aquifer Supplies											
Colorado City	Mitchell	2020	\$3,744,000	\$1,824	170	170	170	170	170	170	\$276
Develop Edwards-Trinity Plateau Aquifer Supplies											
Andrews	Andrews	2020	\$24,927,000	\$891	2,600	2,600	2,600	2,600	2,600	2,600	\$217
County-Other	Andrews	2020	\$751,000	\$252	250	250	250	250	250	250	\$40
San Angelo	Schleicher	2040	\$102,100,000	\$1,800	0	0	4,500	4,500	4,500	4,500	\$209
Livestock	Andrews	2020	\$327,000	\$433	60	60	60	60	60	60	\$50
Manufacturing	Andrews	2020	\$591,000	\$243	210	210	210	210	210	210	\$43
Robert Lee-	Nolan	2030	\$4,145,000	\$4,293	0	75	75	75	75	75	\$400
Robert Lee	Tom Green	2030	\$7,272,000	\$3,756	0	160	160	160	160	160	\$556
Develop Ellenburger-San Saba Aquifer Supplies											
BCWID #1	Brown	2030	\$70,199,000	\$1,754	0	5,600	5,600	5,600	5,600	5,600	\$872
Develop Hickory Aquifer Supplies											
Menard	Menard	2030	\$3,287,000	\$1,320	0	200	200	200	200	200	\$165
Develop Ogallala Aquifer Supplies											
Andrews	Andrews	2020	\$15,663,000	\$496	2,810	2,810	2,810	2,810	2,810	2,810	\$104
Great Plains	Andrews, Gaines	2020	\$380,000	\$190	200	200	200	200	200	200	\$55
Develop Other Aquifer Supplies											
Bronte	Coke	2030	\$23,694,000	\$2,424	0	800	800	800	800	800	\$340
Bronte	Runnels	2030	\$23,694,000	\$2,424	0	800	800	800	800	800	\$340
Develop Additional Groundwater Supplies											
CRMWD	Western Region F Counties	2040	\$147,558,000	\$1,348	0	0	10,000	10,000	10,000	10,000	\$310
Odessa	Pecos	2040	\$826,808,000	\$3,249	0	0	11,200	28,000	28,000	28,000	\$1,172
San Angelo	Pecos	2040	\$327,576,000	\$2,604	0	0	10,800	10,800	10,800	10,800	\$470
New or Additional Water Treatment											
Robert Lee	Coke	2030	\$6,541,000	\$2,657	0	335	335	335	335	335	\$1,284
Potable Reuse with Aquifer Storage and Recovery											
Pecos	Reeves	2030	\$34,456,000	\$6,788	0	695	695	695	695	695	\$3,301

Table F-2
Summary of Alternative Strategies

Entity	County Used	Expected Implementation Date	Capital Cost	First Decade Unit Cost (\$/ac-ft/yr)	Total Yield						Last Decade Unit Cost (\$/ac-ft/yr)
					2020	2030	2040	2050	2060	2070	
Regional Water Management Strategies											
Bronte, Ballinger, Winters, Robert Lee (Lake Brownwood)	Coke, Runnels	2040	\$115,443,000	\$3,904	0	0	2,802	2,802	2,802	2,802	\$1,005
Bronte, Ballinger, Winters, Robert Lee (Lake Fort Phantom Hill)	Coke, Runnels	2040	\$103,328,000	\$7,606	0	0	1,155	1,155	1,155	1,155	\$1,312
Voluntary Transfer (Purchase)											
Greater Gardendale WSC	Ector	2030	\$2,946,000	\$2,355	0	445	445	445	445	445	\$1,890
Midland	Midland	2020	\$0	\$0	4000	4000	4000	4000	4000	4000	\$0
Grandfalls	Ector	2050	\$0	\$0	0	0	0	155	155	155	\$0
West Texas Water Partnership ^a											
Abilene	Multiple	2030	\$327,504,000	\$1,165	0	8,400	8,400	8,400	8,400	8,400	\$342
Midland					0	15,000	15,000	15,000	15,000	15,000	
San Angelo					0	5,000	5,000	5,000	5,000	5,000	

Note: Grey italics indicates projects that are needed to access supplies from other strategies and are not included in the total to avoid double counting.

a. Capital and unit costs for the West Texas Water Partnership will be shared between the partnership (Abilene, Midland, and San Angelo).

Attachment 5
Documentation of Administrative and Public Process

Attachment 5-1
**Transmittal for Draft Amendment Packet for Minor Status
Determination**

March 22, 2024

Brian McMath
Interim Executive Director
Texas Water Development Board
1700 Congress Avenue
Austin, Texas 78701

**Re: Amendment to the 2021 Region F Water Plan
Determination of Minor Amendment Status**

Dear Mr. McMath:

Freese and Nichols, Inc. (FNI) is transmitting a draft amendment package, attached with this letter, to the Texas Water Development Board (TWDB) on behalf of the Region F Water Planning Group (RFPWG). This amendment request is in response to the infeasible strategy review of the 2021 Region F Water Plan, as required by Texas Water Code 16.053(h)(10). During the review process four strategies were identified as needing changes to meet the feasibility criteria. These changes were considered by the RFPWG at its February 1, 2024, regular public meeting. The RFPWG took formal action at the meeting to approve the submittal of this package to TWDB for review by your staff in final determination of minor amendment status.

The RFPWG plans to address this matter at their May meeting following this determination. Should you have any further questions regarding this submittal, please feel free to contact Lissa Gregg at 817-735-7328 or Lissa.Gregg@freese.com.

Sincerely,



Simone Kiel
Freese and Nichols, Inc.
Consultant for RFPWG

cc: Cole Walker, Chair, RFPWG
Heather Rose, TWDB

Attachments

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Attachment 5-2

TWDB Determination Letter Regarding Minor Amendment Status

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P.O. Box 13231, 1700 N. Congress Ave.
Austin, TX 78711-3231, www.twdb.texas.gov
Phone (512) 463-7847, Fax (512) 475-2053

April 12, 2024

Mr. Cole Walker
Chair
Region F Regional Water Planning Group
c/o Colorado River Municipal Water District
P.O. Box 869
Big Spring, Texas 79721

Dear Chairman Walker:

I have reviewed Region F's request for a minor amendment determination. Based on the request and supporting materials, I have determined that amending the Region F 2021 Regional Water Plan (RWP) to revise the infeasible water management strategies and projects identified for the City of Bronte, City of Junction, City of Balmorhea, and Steam-Electric Power, Mitchell County constitute a minor amendment under 31 Texas Administrative Code (TAC) §357.51(c).

If the Region F Regional Water Planning Group adopts the proposed minor amendment, the planning group will need to submit the following items to the Texas Water Development Board (TWDB):

1. Documentation of the planning group action adopting this minor amendment in the form of a cover letter.
2. A final version of the 2021 Region F RWP amendment.

Please note that the final amendment to the 2021 Region F RWP must include the following:

1. A copy of the updated state water planning database (DB22) reports relevant to the amendment (provided by the TWDB).
2. A summary of any public comments received on the proposed amendment and the region's response to the public comments.

Our Mission

Leading the state's efforts
in ensuring a secure
water future for Texas

Board Members

Brooke T. Paup, Chairwoman | George B. Peyton V, Board Member | L'Oreal Stepney, P.E., Board Member
Bryan McMath, Interim Executive Administrator

Mr. Cole Walker, Chair

April 12, 2024

Page 2

After receipt of all required information, the TWDB Board will consider approving the Region F amendment at a regularly scheduled meeting, and then may amend the 2022 State Water Plan, as appropriate.

If Region F makes any substantive changes during the minor amendment process, the TWDB will need to review the modified proposed amendment to ensure that any other changes still meet all of the criteria under 31 TAC §357.51(c).

If you have any questions concerning this determination, please contact Heather Rose of our Regional Water Planning staff at 512-475-1558 or heather.rose@twdb.texas.gov.

Sincerely,

Bryan McMath

Interim Executive Administrator

c: Audra Hoback, Colorado River Municipal Water District
Lissa Gregg, Freese and Nichols, Inc.
Jordan Skipwith, Freese and Nichols, Inc.
Heather Rose, Water Supply Planning
Sarah Lee, Water Supply Planning

Attachment 5-3
Notice for Public Comment Period for Amendment

NOTICE OF MEETING AND AGENDA

THE REGION F REGIONAL WATER PLANNING GROUP WILL MEET ON THURSDAY, MAY 23, 2024, AT 10:30 A.M. AT THE ADMINISTRATIVE OFFICE OF THE COLORADO RIVER MUNICIPAL WATER DISTRICT 400 E. 24TH ST – BIG SPRING, TEXAS TO DISCUSS, CONSIDER, ADVISE AND/OR TAKE FORMAL ACTION ON THE FOLLOWING ITEMS

- 1) Call to Order
- 2) Introductions (Establish Quorum)
- 3) Accept public comment (limit three minutes per speaker)
- 4) Region F Administrative Matters
 - a. Consider approval of the minutes of the meeting held on February 1, 2024
 - b. Consider accepting the Financial Report ending February 29, 2024
- 5) Planning Process
 - a. Consider action to Amend the 2021 Region F Water Plan related to infeasible strategy review
 - b. Present results of the subordination strategy evaluation
 - c. Review water supply needs after subordination
 - d. Review water management strategy survey results
 - e. Discuss legislative recommendations from 2021 Region F Plan
 - f. Schedule review
- 6) Texas Water Development Board (TWDB) Report
 - a. Interregional Planning Council Report
 - b. Conservation Resources Guide & Dashboard for Water Supply Planning
- 7) Regional Liaison Updates
- 8) Next Meeting Date
- 9) Adjourn

**Region F Regional Water Planning Group will be accepting written public comments from May 9, 2024 to May 23, 2024.*

For additional information or to submit public comment, please contact Audra Hoback, Region F Administrative Agent, c/o CRMWD, P.O. Box 869, Big Spring, TX 79721, (432)-267-6341 or ahoback@crmwd.org.

Attachment 5-4
Public Comments Regarding Amendment

Note:

No public comments were received regarding the amendment of the 2021 Region F Water Plan to incorporate updates from the infeasible strategy review.

Attachment 6

**Updated State Water Planning Database (DB22) Reports
Relevant to the Amendment**

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Region F Water User Group (WUG) Second-Tier Identified Water Needs

Second-tier needs are WUG split needs adjusted to include the implementation of recommended demand reduction and direct reuse water management strategies.

	WUG SECOND-TIER NEEDS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
Andrews COUNTY - Colorado BASIN						
Andrews	147	361	619	1,186	1,850	2,650
County-Other	16	43	74	134	192	254
Manufacturing	31	59	87	134	174	209
Mining	909	868	66	0	0	0
Livestock	9	17	25	39	50	60
Irrigation	23	3,034	4,643	5,735	6,658	7,480
Andrews COUNTY - Rio Grande BASIN						
County-Other	0	0	0	0	0	0
Mining	0	0	0	0	0	0
Livestock	0	0	0	0	0	0
Irrigation	658	617	617	617	617	617
Borden COUNTY - Brazos BASIN						
County-Other	0	0	0	0	0	0
Livestock	0	0	0	0	0	0
Irrigation	0	0	0	0	0	0
Borden COUNTY - Colorado BASIN						
County-Other	0	0	0	0	0	0
Mining	0	0	0	0	0	0
Livestock	0	0	0	0	0	0
Irrigation	0	0	0	0	0	0
Brown COUNTY - Brazos BASIN						
County-Other	0	0	0	0	0	0
Livestock	0	0	0	0	0	0
Irrigation	323	311	311	311	311	311
Brown COUNTY - Colorado BASIN						
Bangs	0	0	0	0	0	0
Brookesmith SUD*	0	0	0	0	0	0
Brownwood	0	0	0	0	0	0
Coleman County SUD*	11	11	10	10	10	10
Early	0	0	0	0	0	0
Zephyr WSC*	0	0	0	0	0	0
County-Other	0	0	0	0	0	0
Manufacturing	0	0	0	0	0	0
Mining	195	200	199	201	198	197
Livestock	0	0	0	0	0	0
Irrigation	979	751	750	752	749	750
Coke COUNTY - Colorado BASIN						
Bronte	209	207	206	204	204	204
Robert Lee	234	231	228	228	227	227
County-Other	0	0	0	0	0	0
Mining	0	0	0	0	0	0
Livestock	0	0	0	0	0	0
Irrigation	0	0	0	0	0	0

*A single asterisk next to a WUG's name denotes that the WUG is split by two or more planning regions.

Region F Water User Group (WUG) Second-Tier Identified Water Needs

	WUG SECOND-TIER NEEDS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
Coleman COUNTY - Colorado BASIN						
Brooksmith SUD*	0	0	0	0	0	0
Coleman	747	741	723	721	720	720
Coleman County SUD*	173	170	164	161	161	161
Santa Anna	0	0	0	0	0	0
County-Other	23	21	21	20	20	20
Manufacturing	2	2	2	2	2	2
Mining	0	0	0	0	0	0
Livestock	0	0	0	0	0	0
Irrigation	373	349	349	349	349	349
Concho COUNTY - Colorado BASIN						
Eden	0	0	0	0	0	0
Millersview-Doole WSC	0	0	0	0	0	0
County-Other	0	0	0	0	0	0
Mining	0	0	0	0	0	0
Livestock	0	0	0	0	0	0
Irrigation	0	0	0	0	0	0
Crane COUNTY - Rio Grande BASIN						
Crane	0	0	0	0	0	0
County-Other	0	0	0	0	0	0
Manufacturing	0	0	0	0	0	0
Mining	0	0	0	0	0	0
Livestock	0	0	0	0	0	0
Crockett COUNTY - Colorado BASIN						
Livestock	0	0	0	0	0	0
Irrigation	0	0	0	0	0	0
Crockett COUNTY - Rio Grande BASIN						
Crockett County WCID 1	0	0	0	0	0	0
County-Other	0	0	0	0	0	0
Manufacturing	0	0	0	0	0	0
Mining	0	0	0	0	0	0
Livestock	0	0	0	0	0	0
Irrigation	0	0	0	0	0	0
Ector COUNTY - Colorado BASIN						
Ector County Utility District	174	0	0	207	557	948
Greater Gardendale WSC	0	74	92	115	140	166
Odessa	1,847	0	0	2,600	6,200	10,235
County-Other	0	0	0	0	0	0
Manufacturing	0	0	0	0	0	0
Mining	0	0	0	0	0	0
Steam Electric Power	109	0	0	114	219	316
Livestock	0	0	0	0	0	0
Irrigation	0	0	0	0	0	0
Ector COUNTY - Rio Grande BASIN						
County-Other	0	0	0	0	0	0
Mining	0	0	0	0	0	0
Livestock	0	0	0	0	0	0
Irrigation	0	0	0	0	0	0

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Region F Water User Group (WUG) Second-Tier Identified Water Needs

	WUG SECOND-TIER NEEDS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
Glasscock COUNTY - Colorado BASIN						
County-Other	0	0	0	0	0	0
Manufacturing	0	0	0	0	0	0
Mining	0	0	0	0	0	0
Livestock	0	0	0	0	0	0
Irrigation	0	0	0	0	0	0
Howard COUNTY - Colorado BASIN						
Big Spring	480	0	0	508	1,094	1,646
Coahoma	43	0	0	48	97	144
County-Other	0	0	0	0	0	0
Manufacturing	147	0	0	153	293	424
Mining	0	0	0	0	0	0
Steam Electric Power	7	0	0	8	26	45
Livestock	0	0	0	0	0	0
Irrigation	0	0	0	0	0	0
Irion COUNTY - Colorado BASIN						
Mertzon	0	0	0	0	0	0
County-Other	0	0	0	0	0	0
Manufacturing	0	0	0	0	0	0
Mining	1,444	1,440	225	0	0	0
Livestock	0	0	0	0	0	0
Irrigation	454	402	349	349	349	349
Kimble COUNTY - Colorado BASIN						
Junction	618	612	601	597	596	596
County-Other	0	0	0	0	0	0
Manufacturing	603	704	704	704	704	704
Mining	0	0	0	0	0	0
Livestock	0	0	0	0	0	0
Irrigation	970	837	784	784	784	784
Loving COUNTY - Rio Grande BASIN						
County-Other	0	0	0	0	0	0
Mining	3,381	3,381	2,543	1,427	699	762
Livestock	0	0	0	0	0	0
Martin COUNTY - Colorado BASIN						
Stanton	0	0	0	23	51	79
County-Other	0	0	0	0	0	0
Mining	0	0	0	0	0	0
Livestock	0	0	0	0	0	0
Irrigation	0	0	0	0	0	0
Mason COUNTY - Colorado BASIN						
Mason	693	683	675	670	669	669
County-Other	0	0	0	0	0	0
Mining	0	0	0	0	0	0
Livestock	0	0	0	0	0	0
Irrigation	0	0	0	0	0	0
McCulloch COUNTY - Colorado BASIN						
Brady	1,373	1,402	1,383	1,391	1,393	1,395
Millersview-Doole WSC	0	0	0	0	0	0

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Region F Water User Group (WUG) Second-Tier Identified Water Needs

	WUG SECOND-TIER NEEDS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
McCulloch COUNTY - Colorado BASIN						
Richland SUD*	0	0	0	0	0	0
County-Other	0	0	0	0	0	0
Manufacturing	0	0	0	0	0	0
Mining	0	0	0	0	0	0
Livestock	0	0	0	0	0	0
Irrigation	0	0	0	0	0	0
Menard COUNTY - Colorado BASIN						
Menard	206	198	192	191	191	191
County-Other	0	0	0	0	0	0
Mining	0	0	0	0	0	0
Livestock	0	0	0	0	0	0
Irrigation	0	0	0	0	0	0
Midland COUNTY - Colorado BASIN						
Airline Mobile Home Park Ltd	0	0	0	0	0	0
Greater Gardendale WSC	0	39	50	62	76	91
Greenwood Water	0	0	0	0	0	0
Midland	0	5,078	8,788	11,718	14,598	17,651
Odessa	36	0	0	63	158	268
County-Other	0	0	0	0	0	0
Manufacturing	0	0	0	0	0	0
Mining	0	0	0	0	0	0
Livestock	0	0	0	0	0	0
Irrigation	0	0	0	0	0	0
Mitchell COUNTY - Colorado BASIN						
Colorado City	0	115	126	137	150	164
Loraine	0	0	0	0	0	0
Mitchell County Utility	0	0	0	0	0	0
County-Other	0	0	0	0	0	0
Manufacturing	0	0	0	0	0	0
Mining	0	0	0	0	0	0
Steam Electric Power	10,326	10,326	10,326	10,326	10,326	10,326
Livestock	0	0	0	0	0	0
Irrigation	1,328	1,602	1,507	1,389	1,310	1,226
Pecos COUNTY - Rio Grande BASIN						
Fort Stockton	0	0	0	0	0	0
Iraan	0	0	0	0	0	0
Pecos County Fresh Water	0	0	0	0	0	0
Pecos County WCID 1	0	0	0	0	0	0
County-Other	0	0	0	0	0	0
Manufacturing	0	0	0	0	0	0
Mining	2,961	2,961	2,961	1,566	533	0
Livestock	0	0	0	0	0	0
Irrigation	0	0	0	0	0	0
Reagan COUNTY - Colorado BASIN						
Big Lake	0	0	0	0	0	0
County-Other	0	0	0	0	0	0
Mining	0	0	0	0	0	0

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Region F Water User Group (WUG) Second-Tier Identified Water Needs

	WUG SECOND-TIER NEEDS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
Reagan COUNTY - Colorado BASIN						
Livestock	0	0	0	0	0	0
Irrigation	0	0	0	0	0	0
Reagan COUNTY - Rio Grande BASIN						
Mining	0	0	0	0	0	0
Livestock	0	0	0	0	0	0
Reeves COUNTY - Rio Grande BASIN						
Balmorea	105	116	127	135	140	145
Madera Valley WSC	0	0	0	0	0	0
Pecos	0	0	0	0	0	0
County-Other	0	0	0	0	0	0
Manufacturing	0	0	0	0	0	0
Mining	9,518	9,518	9,053	7,007	5,054	3,566
Livestock	0	0	0	0	0	0
Irrigation	0	0	0	0	0	0
Runnels COUNTY - Colorado BASIN						
Ballinger	0	0	0	0	0	0
Coleman County SUD*	10	10	10	9	9	9
Miles	16	31	32	36	39	45
Millersview-Doole WSC	0	0	0	0	0	0
North Runnels WSC*	158	155	151	150	150	152
Winters	209	206	197	196	195	195
County-Other	21	19	17	16	16	17
Manufacturing	0	0	0	0	0	0
Mining	0	0	0	0	0	0
Livestock	0	0	0	0	0	0
Irrigation	0	0	0	0	0	0
Schleicher COUNTY - Colorado BASIN						
Eldorado	0	0	0	0	0	0
County-Other	0	0	0	0	0	0
Mining	0	0	0	0	0	0
Livestock	0	0	0	0	0	0
Irrigation	0	0	0	0	0	0
Schleicher COUNTY - Rio Grande BASIN						
County-Other	0	0	0	0	0	0
Mining	0	0	0	0	0	0
Livestock	0	0	0	0	0	0
Irrigation	0	0	0	0	0	0
Scurry COUNTY - Brazos BASIN						
County-Other	199	209	220	233	250	269
Mining	61	100	106	80	54	37
Livestock	0	0	0	0	0	0
Irrigation	1,365	1,288	1,239	1,238	1,238	1,238
Scurry COUNTY - Colorado BASIN						
Snyder	153	0	0	201	465	721
County-Other	183	183	203	263	328	393
Manufacturing	130	156	156	156	156	156
Mining	161	263	279	210	142	95

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Region F Water User Group (WUG) Second-Tier Identified Water Needs

	WUG SECOND-TIER NEEDS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
Scurry COUNTY - Colorado BASIN						
Livestock	0	0	0	0	0	0
Irrigation	4,788	4,511	4,343	4,341	4,339	4,342
Sterling COUNTY - Colorado BASIN						
Sterling City	0	0	0	0	0	0
County-Other	0	0	0	0	0	0
Mining	0	0	0	0	0	0
Livestock	0	0	0	0	0	0
Irrigation	0	0	0	0	0	0
Sutton COUNTY - Colorado BASIN						
County-Other	0	0	0	0	0	0
Manufacturing	0	0	0	0	0	0
Mining	0	0	0	0	0	0
Livestock	0	0	0	0	0	0
Irrigation	0	0	0	0	0	0
Sutton COUNTY - Rio Grande BASIN						
Sonora	0	0	0	0	0	0
County-Other	0	0	0	0	0	0
Mining	0	0	0	0	0	0
Livestock	0	0	0	0	0	0
Irrigation	0	0	0	0	0	0
Tom Green COUNTY - Colorado BASIN						
Concho Rural Water	0	0	0	0	0	0
DADS Supported Living Center	0	0	0	0	0	0
Goodfellow Air Force Base	128	182	213	248	288	334
Millersview-Doole WSC	0	0	0	0	0	0
San Angelo	4,326	6,126	7,074	8,232	9,614	11,107
Tom Green County FWSD 3	0	0	0	0	0	0
County-Other	0	0	0	0	0	0
Manufacturing	38	144	159	178	198	215
Mining	0	0	0	0	0	0
Livestock	0	0	0	0	0	0
Irrigation	0	0	0	0	0	0
Upton COUNTY - Colorado BASIN						
County-Other	0	0	0	0	0	0
Manufacturing	0	0	0	0	0	0
Mining	0	0	0	0	0	0
Livestock	0	0	0	0	0	0
Irrigation	0	0	0	0	0	0
Upton COUNTY - Rio Grande BASIN						
McCamey	0	0	0	0	0	0
Rankin	0	0	0	0	0	0
County-Other	0	0	0	0	0	0
Manufacturing	0	0	0	0	0	0
Mining	0	0	0	0	0	0
Livestock	0	0	0	0	0	0
Irrigation	0	0	0	0	0	0

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Region F Water User Group (WUG) Second-Tier Identified Water Needs

	WUG SECOND-TIER NEEDS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
Ward COUNTY - Rio Grande BASIN						
Barstow	0	0	0	0	0	0
Grandfalls	0	0	0	0	150	153
Monahans	0	0	0	0	0	0
Southwest Sandhills WSC	0	0	0	0	0	0
Wickett	0	0	0	0	0	0
County-Other	0	0	0	0	0	0
Manufacturing	0	0	0	0	0	0
Mining	0	0	0	0	0	0
Steam Electric Power	2,352	2,352	2,352	2,352	2,352	2,352
Livestock	0	0	0	0	0	0
Irrigation	0	0	0	0	0	0
Winkler COUNTY - Colorado BASIN						
Livestock	0	0	0	0	0	0
Winkler COUNTY - Rio Grande BASIN						
Kermit	0	0	0	0	0	0
Wink	0	0	0	0	0	0
County-Other	0	0	0	0	0	0
Manufacturing	0	0	0	0	0	0
Mining	0	0	0	0	0	0
Livestock	0	0	0	0	0	0
Irrigation	0	0	0	0	0	0

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Region F Water User Group (WUG) Second-Tier Identified Water Needs Summary

Second-tier needs are WUG split needs adjusted to include the implementation of recommended demand reduction and direct reuse water management strategies.

WUG CATEGORY	NEEDS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
Municipal	12,096	16,748	21,661	30,047	40,192	51,076
COUNTY-OTHER	442	475	535	666	806	953
Manufacturing	951	1,065	1,108	1,327	1,527	1,710
Mining	18,630	18,731	15,432	10,491	6,680	4,657
Steam Electric Power	12,794	12,678	12,678	12,800	12,923	13,039
Livestock	9	17	25	39	50	60
Irrigation	11,261	13,702	14,892	15,865	16,704	17,446

Region F Water User Group (WUG) Unmet Needs

WUG supplies and projected demands are entered for each of a WUG's region-county-basin divisions. The unmet needs shown in the WUG Unmet Needs report are calculated by first deducting the WUG split's projected demand from the sum of its total existing water supply volume and all associated recommended water management strategy water volumes. If the WUG split has a greater future supply volume than projected demand in any given decade, this amount is considered a surplus volume. In order to display only unmet needs associated with the WUG split, these surplus volumes are updated to a zero and the unmet needs water volumes are shown as absolute values.

	WUG UNMET NEEDS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
Andrews COUNTY - Colorado BASIN						
Andrews	147	361	619	1,186	1,850	2,650
County-Other	16	43	74	134	192	254
Manufacturing	31	59	87	134	174	209
Mining	909	868	66	0	0	0
Livestock	9	17	25	39	50	60
Irrigation	23	3,034	4,643	5,735	6,658	7,480
Andrews COUNTY - Rio Grande BASIN						
Irrigation	658	617	617	617	617	617
Brown COUNTY - Brazos BASIN						
Irrigation	323	311	311	311	311	311
Brown COUNTY - Colorado BASIN						
Irrigation	979	751	750	752	749	750
Coke COUNTY - Colorado BASIN						
Bronte	209	0	0	0	0	0
Robert Lee	234	0	0	0	0	0
Irion COUNTY - Colorado BASIN						
Mining	1,444	1,440	225	0	0	0
Irrigation	252	200	147	147	147	147
Kimble COUNTY - Colorado BASIN						
Junction	368	0	0	0	0	0
Irrigation	970	837	784	784	784	784
Loving COUNTY - Rio Grande BASIN						
Mining	3,381	3,381	2,543	1,427	699	762
Martin COUNTY - Colorado BASIN						
Irrigation	0	0	2,392	3,346	6,004	7,844
Mitchell COUNTY - Colorado BASIN						
Colorado City	0	115	126	137	150	164
Steam Electric Power	9,156	9,170	9,184	9,198	9,212	9,226
Irrigation	1,328	1,602	1,507	1,389	1,310	1,226
Reeves COUNTY - Rio Grande BASIN						
Balmorhea	105	0	0	0	0	0
Scurry COUNTY - Brazos BASIN						
Mining	61	100	106	80	54	37
Irrigation	1,365	1,288	1,239	1,238	1,238	1,238
Scurry COUNTY - Colorado BASIN						
Mining	161	263	279	210	142	95
Irrigation	4,788	4,511	4,343	4,341	4,339	4,342
Ward COUNTY - Rio Grande BASIN						
Steam Electric Power	2,352	2,352	2,352	2,352	2,352	2,352

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Region F Water User Group (WUG) Unmet Needs Summary

WUG supplies and projected demands are entered for each of a WUG’s region-county-basin divisions. The unmet needs shown in the WUG Unmet Needs Summary report are calculated by first deducting the WUG split’s projected demand from the sum of its total existing water supply volume and all associated recommended water management strategy water volumes. If the WUG split has a greater future supply volume than projected demand in any given decade, this amount is considered a surplus volume. Before aggregating the difference between supplies and demands to the WUG category level, calculated surpluses are updated to zero so that only the WUGs with unmet needs in the decade are included with the Needs totals. Unmet needs water volumes are shown as absolute values.

WUG CATEGORY	NEEDS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
Municipal	1,063	476	745	1,323	2,000	2,814
COUNTY-OTHER	16	43	74	134	192	254
Manufacturing	31	59	87	134	174	209
Mining	5,956	6,052	3,219	1,717	895	894
Steam Electric Power	11,508	11,522	11,536	11,550	11,564	11,578
Livestock	9	17	25	39	50	60
Irrigation	10,686	13,151	16,733	18,660	22,157	24,739

Region F Recommended Water User Group (WUG) Water Management Strategies (WMS)

						WATER MANAGEMENT STRATEGY SUPPLY (ACRE-FEET PER YEAR)					
WUG ENTITY NAME	WMS SPONSOR REGION	WMS NAME	SOURCE NAME	UNIT COST 2020	UNIT COST 2070	2020	2030	2040	2050	2060	2070
Airline Mobile Home Park Ltd	F	MUNICIPAL CONSERVATION - AIRLINE MOBILE HOME PARK LTD	DEMAND REDUCTION	\$1263	\$1134	7	7	8	9	10	10
Andrews	F	MUNICIPAL CONSERVATION - ANDREWS	DEMAND REDUCTION	\$952	\$592	45	55	96	111	129	150
Ballinger	F	MUNICIPAL CONSERVATION - BALLINGER	DEMAND REDUCTION	\$1107	\$1101	12	12	12	12	12	12
Ballinger	F	SUBORDINATION - BALLINGER/MOONEN LAKE	F Ballinger/Moonen Lake/Reservoir	\$0	\$0	751	751	750	748	745	740
Ballinger	F	SUBORDINATION - OH IVIE NON SYSTEM PORTION	F OH Ivie Lake/Reservoir Non-System Portion	\$0	\$0	43	0	0	0	8	51
Balmorhea	F	DEVELOP EDWARDS-TRINITY-PLATEAU AQUIFER SUPPLIES - BALMORHEA	F Edwards-Trinity-Plateau and Pecos Valley Aquifers Reeves COUNTY	N/A	\$140	0	150	150	150	150	150
Balmorhea	F	MUNICIPAL CONSERVATION - BALMORHEA	DEMAND REDUCTION	\$2472	\$2189	2	2	2	2	2	2
Bangs	F	MUNICIPAL CONSERVATION - BANGS	DEMAND REDUCTION	\$1221	\$1214	8	8	8	8	8	8
Barstow	F	MUNICIPAL CONSERVATION - BARSTOW	DEMAND REDUCTION	\$3068	\$2731	1	1	1	1	1	1
Big Lake	F	MUNICIPAL CONSERVATION - BIG LAKE	DEMAND REDUCTION	\$1139	\$1079	10	12	12	13	13	14
Big Spring	F	MUNICIPAL CONSERVATION - BIG SPRING	DEMAND REDUCTION	\$557	\$620	131	138	140	139	139	139
Big Spring	F	SUBORDINATION - CRMWD SYSTEM	F Colorado River MWD Lake/Reservoir System	\$0	\$0	611	0	0	647	1,233	1,785
Brady	F	ADVANCED GROUNDWATER TREATMENT - BRADY	F Hickory Aquifer McCulloch COUNTY	\$2069	\$327	1,195	1,195	1,195	1,195	1,195	1,195
Brady	F	MUNICIPAL CONSERVATION - BRADY	DEMAND REDUCTION	\$988	\$930	18	18	19	19	19	19
Brady	F	SUBORDINATION - BRADY CREEK RESERVOIR	F Brady Creek Lake/Reservoir	\$0	\$0	841	841	841	841	841	841
Bronte	F	BRONTE - DEVELOP EDWARDS TRINITY PLATEAU AQUIFER SUPPLIES IN NOLAN CO	G Edwards-Trinity-Plateau, Pecos Valley, and Trinity Aquifers Nolan COUNTY	N/A	\$197	0	178	178	178	178	178
Bronte	F	MUNICIPAL CONSERVATION - BRONTE	DEMAND REDUCTION	\$1647	\$1647	3	3	3	3	3	3
Bronte	F	SUBORDINATION - OAK CREEK RESERVOIR	F Oak Creek Lake/Reservoir	N/A	\$202	0	210	209	207	207	207
Brookesmith SUD*	F	MUNICIPAL CONSERVATION - BROOKESMITH SUD	DEMAND REDUCTION	\$705	\$688	25	25	25	25	25	25
Brookesmith SUD*	F	WATER AUDITS AND LEAK - BROOKESMITH SUD	DEMAND REDUCTION	\$2569	\$2711	80	80	78	77	77	77
Brownwood	F	MUNICIPAL CONSERVATION - BROWNWOOD	DEMAND REDUCTION	\$937	\$735	61	91	91	91	91	91
Coahoma	F	MUNICIPAL CONSERVATION - COAHOMA	DEMAND REDUCTION	\$1222	\$1203	8	8	8	8	8	8
Coahoma	F	SUBORDINATION - CRMWD SYSTEM	F Colorado River MWD Lake/Reservoir System	\$0	\$0	51	0	0	56	105	152

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Region F Recommended Water User Group (WUG) Water Management Strategies (WMS)

						WATER MANAGEMENT STRATEGY SUPPLY (ACRE-FEET PER YEAR)					
WUG ENTITY NAME	WMS SPONSOR REGION	WMS NAME	SOURCE NAME	UNIT COST 2020	UNIT COST 2070	2020	2030	2040	2050	2060	2070
Coleman	F	MUNICIPAL CONSERVATION - COLEMAN	DEMAND REDUCTION	\$1065	\$1061	15	15	15	15	15	15
Coleman	F	SUBORDINATION - HORDS CREEK LAKE	F Hords Creek Lake/Reservoir	\$0	\$0	151	146	140	135	128	122
Coleman	F	SUBORDINATION - LAKE COLEMAN	F Coleman Lake/Reservoir	\$0	\$0	1,168	1,150	1,136	1,120	1,099	1,078
Coleman	F	WATER AUDITS AND LEAK - COLEMAN	DEMAND REDUCTION	\$2183	\$2292	59	58	57	57	57	57
Coleman County SUD*	F	MUNICIPAL CONSERVATION - COLEMAN COUNTY SUD	DEMAND REDUCTION	\$1144	\$1138	9	9	9	9	9	9
Coleman County SUD*	F	SUBORDINATION - HORDS CREEK LAKE	F Hords Creek Lake/Reservoir	\$0	\$0	23	22	21	20	20	19
Coleman County SUD*	F	SUBORDINATION - LAKE COLEMAN	F Coleman Lake/Reservoir	\$0	\$0	180	179	173	170	170	171
Colorado City	F	MUNICIPAL CONSERVATION - COLORADO CITY	DEMAND REDUCTION	\$1054	\$938	16	18	18	18	18	19
Concho Rural Water	F	CONCHO RIVER WATER PROJECT - SAN ANGELO	F Colorado Indirect Reuse	\$1250	\$269	74	83	86	91	95	98
Concho Rural Water	F	MUNICIPAL CONSERVATION - CONCHO RURAL WSC	DEMAND REDUCTION	\$894	\$714	20	21	22	23	24	24
Concho Rural Water	F	SUBORDINATION - SAN ANGELO SYSTEM	F San Angelo Lakes Lake/Reservoir System	\$0	\$0	8	7	6	5	4	4
County-Other, Andrews	F	MUNICIPAL CONSERVATION - ANDREWS COUNTY OTHER	DEMAND REDUCTION	\$1080	\$821	14	15	17	18	20	21
County-Other, Coleman	F	MUNICIPAL CONSERVATION - COLEMAN COUNTY OTHER	DEMAND REDUCTION	\$5095	\$5161	1	1	1	1	1	1
County-Other, Coleman	F	SUBORDINATION - HORDS CREEK LAKE	F Hords Creek Lake/Reservoir	\$0	\$0	3	2	2	2	2	2
County-Other, Coleman	F	SUBORDINATION - LAKE COLEMAN	F Coleman Lake/Reservoir	\$0	\$0	21	20	20	19	19	19
County-Other, Concho	F	MUNICIPAL CONSERVATION - CONCHO COUNTY OTHER	DEMAND REDUCTION	\$1836	\$1821	3	3	3	3	3	3
County-Other, Concho	F	SUBORDINATION - SAN ANGELO SYSTEM	F San Angelo Lakes Lake/Reservoir System	\$0	\$0	3	3	3	3	3	3
County-Other, Ector	F	SUBORDINATION - CRMWD SYSTEM	F Colorado River MWD Lake/Reservoir System	N/A	\$0	0	1,200	2,500	2,500	2,500	2,500
County-Other, McCulloch	F	ADVANCED GROUNDWATER TREATMENT - BRADY	F Hickory Aquifer McCulloch COUNTY	\$2069	\$327	5	5	5	5	5	5
County-Other, Midland	F	DEVELOP ADDITIONAL PECOS VALLEY AQUIFER SUPPLIES - MIDLAND COUNTY OTHER	F Edwards-Trinity-Plateau and Pecos Valley Aquifers Winkler COUNTY	N/A	\$121	0	2,800	2,800	2,800	2,800	2,800
County-Other, Runnels	F	MUNICIPAL CONSERVATION - RUNNELS COUNTY OTHER	DEMAND REDUCTION	\$1953	\$1988	2	2	2	2	2	2
County-Other, Runnels	F	SUBORDINATION - BALLINGER/MOONEN LAKE	F Ballinger/Moonen Lake/Reservoir	\$0	\$0	23	21	19	18	18	19
County-Other, Scurry	F	MUNICIPAL CONSERVATION - SCURRY COUNTY OTHER	DEMAND REDUCTION	\$863	\$589	20	22	24	26	28	30
County-Other, Scurry	F	SUBORDINATION - CRMWD SYSTEM	F Colorado River MWD Lake/Reservoir System	\$0	\$0	402	414	447	522	606	692

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Region F Recommended Water User Group (WUG) Water Management Strategies (WMS)

						WATER MANAGEMENT STRATEGY SUPPLY (ACRE-FEET PER YEAR)					
WUG ENTITY NAME	WMS SPONSOR REGION	WMS NAME	SOURCE NAME	UNIT COST 2020	UNIT COST 2070	2020	2030	2040	2050	2060	2070
County-Other, Tom Green	F	CONCHO RIVER WATER PROJECT - SAN ANGELO	F Colorado Indirect Reuse	\$1250	\$269	29	40	43	49	54	58
County-Other, Tom Green	F	SUBORDINATION - MOUNTAIN CREEK RESERVOIR	F Mountain Creek Lake/Reservoir	\$0	\$0	70	70	70	70	70	70
County-Other, Tom Green	F	SUBORDINATION - SAN ANGELO SYSTEM	F San Angelo Lakes Lake/Reservoir System	\$0	\$0	22	18	17	15	13	11
Crane	F	MUNICIPAL CONSERVATION - CRANE	DEMAND REDUCTION	\$1120	\$1070	11	12	13	13	14	14
Crockett County WCID 1	F	MUNICIPAL CONSERVATION - CROCKETT COUNTY WCID	DEMAND REDUCTION	\$1106	\$1083	12	13	13	13	13	13
DADS Supported Living Center	F	MUNICIPAL CONSERVATION - DADS SUPPORTED LIVING CENTER	DEMAND REDUCTION	\$4116	\$4116	1	1	1	1	1	1
Early	F	MUNICIPAL CONSERVATION - EARLY	DEMAND REDUCTION	\$1176	\$657	9	9	9	9	9	9
Ector County Utility District	F	MUNICIPAL CONSERVATION - ECTOR COUNTY UD	DEMAND REDUCTION	\$292	\$598	60	84	94	125	137	149
Ector County Utility District	F	SUBORDINATION - CRMWD SYSTEM	F Colorado River MWD Lake/Reservoir System	\$0	\$0	234	0	0	332	694	1,097
Eden	F	MUNICIPAL CONSERVATION - EDEN	DEMAND REDUCTION	\$1541	\$1518	4	4	4	4	4	4
Eldorado	F	MUNICIPAL CONSERVATION - EL DORADO	DEMAND REDUCTION	\$1283	\$1283	6	6	6	6	6	6
Fort Stockton	F	MUNICIPAL CONSERVATION - FORT STOCKTON	DEMAND REDUCTION	\$484	\$363	36	39	42	44	46	48
Goodfellow Air Force Base	F	CONCHO RIVER WATER PROJECT - SAN ANGELO	F Colorado Indirect Reuse	\$1250	\$269	85	141	173	210	253	301
Goodfellow Air Force Base	F	MUNICIPAL CONSERVATION - GOODFELLOW AIR FORCE BASE	DEMAND REDUCTION	\$1222	\$1123	8	9	9	10	10	11
Goodfellow Air Force Base	F	SUBORDINATION - SAN ANGELO SYSTEM	F San Angelo Lakes Lake/Reservoir System	\$0	\$0	44	42	40	38	35	33
Grandfalls	F	DEVELOP PECOS VALLEY AQUIFER SUPPLIES - GRANDFALLS	F Edwards-Trinity-Plateau and Pecos Valley Aquifers Ward COUNTY	N/A	\$148	0	0	0	155	155	155
Grandfalls	F	MUNICIPAL CONSERVATION - GRANDFALLS	DEMAND REDUCTION	\$2804	\$2509	1	1	1	1	2	2
Greater Gardendale WSC	F	MUNICIPAL CONSERVATION - GREATER GARDENDALE WSC	DEMAND REDUCTION	\$1108	\$859	12	13	15	17	19	20
Greater Gardendale WSC	F	SUBORDINATION - CRMWD SYSTEM	F Colorado River MWD Lake/Reservoir System	N/A	\$2769	0	375	445	445	445	445
Greenwood Water	F	MUNICIPAL CONSERVATION - GREENWOOD WATER	DEMAND REDUCTION	\$1716	\$1430	3	3	4	4	4	5
Iraan	F	MUNICIPAL CONSERVATION - IRAAN	DEMAND REDUCTION	\$1501	\$1351	4	4	5	5	5	5
Irrigation, Andrews	F	IRRIGATION CONSERVATION - ANDREWS COUNTY	DEMAND REDUCTION	\$31	\$0	1,018	2,037	2,037	2,037	2,037	2,037
Irrigation, Borden	F	IRRIGATION CONSERVATION - BORDEN COUNTY	DEMAND REDUCTION	\$31	\$0	147	295	295	295	295	295

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Region F Recommended Water User Group (WUG) Water Management Strategies (WMS)

						WATER MANAGEMENT STRATEGY SUPPLY (ACRE-FEET PER YEAR)					
WUG ENTITY NAME	WMS SPONSOR REGION	WMS NAME	SOURCE NAME	UNIT COST 2020	UNIT COST 2070	2020	2030	2040	2050	2060	2070
Irrigation, Brown	F	IRRIGATION CONSERVATION - BROWN COUNTY	DEMAND REDUCTION	\$31	\$0	406	650	650	650	650	650
Irrigation, Coke	F	IRRIGATION CONSERVATION - COKE COUNTY	DEMAND REDUCTION	\$31	\$0	34	69	83	83	83	83
Irrigation, Coleman	F	IRRIGATION CONSERVATION - COLEMAN COUNTY	DEMAND REDUCTION	\$31	\$0	23	47	47	47	47	47
Irrigation, Coleman	F	SUBORDINATION - LAKE COLEMAN	F Coleman Lake/Reservoir	\$0	\$0	400	400	400	400	400	400
Irrigation, Concho	F	IRRIGATION CONSERVATION - CONCHO COUNTY	DEMAND REDUCTION	\$31	\$0	245	490	539	539	539	539
Irrigation, Crockett	F	IRRIGATION CONSERVATION - CROCKETT COUNTY	DEMAND REDUCTION	\$31	\$0	7	14	20	20	20	20
Irrigation, Crockett	F	WEATHER MODIFICATION	F Weather Modification	\$1	\$1	1	1	1	1	1	1
Irrigation, Ector	F	IRRIGATION CONSERVATION - ECTOR COUNTY	DEMAND REDUCTION	\$13	\$0	38	76	113	113	113	113
Irrigation, Ector	F	SUBORDINATION - CRMWD SYSTEM	F Colorado River MWD Lake/Reservoir System	\$0	\$0	157	0	0	162	312	449
Irrigation, Glasscock	F	IRRIGATION CONSERVATION - GLASSCOCK COUNTY	DEMAND REDUCTION	\$31	\$0	2,050	2,050	2,050	2,050	2,050	2,050
Irrigation, Howard	F	IRRIGATION CONSERVATION - HOWARD COUNTY	DEMAND REDUCTION	\$31	\$0	344	688	757	757	757	757
Irrigation, Irion	F	IRRIGATION CONSERVATION - IRION COUNTY	DEMAND REDUCTION	\$31	\$0	53	105	158	158	158	158
Irrigation, Irion	F	WEATHER MODIFICATION	F Weather Modification	\$1	\$1	202	202	202	202	202	202
Irrigation, Kimble	F	IRRIGATION CONSERVATION - KIMBLE COUNTY	DEMAND REDUCTION	\$31	\$0	133	266	319	319	319	319
Irrigation, Martin	F	IRRIGATION CONSERVATION - MARTIN COUNTY	DEMAND REDUCTION	\$31	\$0	1,825	3,649	5,474	5,474	5,474	5,474
Irrigation, Mason	F	IRRIGATION CONSERVATION - MASON COUNTY	DEMAND REDUCTION	\$31	\$0	248	497	745	745	745	745
Irrigation, McCulloch	F	IRRIGATION CONSERVATION - MCCULLOCH COUNTY	DEMAND REDUCTION	\$31	\$0	116	232	349	349	349	349
Irrigation, Menard	F	IRRIGATION CONSERVATION - MENARD COUNTY	DEMAND REDUCTION	\$31	\$0	183	366	549	549	549	549
Irrigation, Menard	F	SUBORDINATION - MENARD COUNTY IRRIGATION	F Colorado Run-of-River	\$0	\$0	537	537	537	537	537	537
Irrigation, Midland	F	IRRIGATION CONSERVATION - MIDLAND COUNTY	DEMAND REDUCTION	\$31	\$0	905	1,811	2,716	2,716	2,716	2,716
Irrigation, Midland	F	SUBORDINATION - CRMWD SYSTEM	F Colorado River MWD Lake/Reservoir System	\$0	\$0	3	0	0	2	6	8
Irrigation, Mitchell	F	IRRIGATION CONSERVATION - MITCHELL COUNTY	DEMAND REDUCTION	\$31	\$0	256	256	256	256	256	256

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Region F Recommended Water User Group (WUG) Water Management Strategies (WMS)

						WATER MANAGEMENT STRATEGY SUPPLY (ACRE-FEET PER YEAR)					
WUG ENTITY NAME	WMS SPONSOR REGION	WMS NAME	SOURCE NAME	UNIT COST 2020	UNIT COST 2070	2020	2030	2040	2050	2060	2070
Irrigation, Pecos	F	IRRIGATION CONSERVATION - PECOS COUNTY	DEMAND REDUCTION	\$31	\$0	7,167	14,335	21,502	21,502	21,502	21,502
Irrigation, Pecos	F	WEATHER MODIFICATION	F Weather Modification	\$5	\$5	106	106	106	106	106	106
Irrigation, Reagan	F	IRRIGATION CONSERVATION - REAGAN COUNTY	DEMAND REDUCTION	\$31	\$0	1,102	2,203	3,305	3,305	3,305	3,305
Irrigation, Reagan	F	WEATHER MODIFICATION	F Weather Modification	\$1	\$1	1,869	1,869	1,869	1,869	1,869	1,869
Irrigation, Reeves	F	IRRIGATION CONSERVATION - REEVES COUNTY	DEMAND REDUCTION	\$31	\$0	2,947	5,894	8,841	8,841	8,841	8,841
Irrigation, Reeves	F	WEATHER MODIFICATION	F Weather Modification	\$1	\$1	326	326	326	326	326	326
Irrigation, Runnels	F	IRRIGATION CONSERVATION - RUNNELS COUNTY	DEMAND REDUCTION	\$31	\$0	155	311	373	373	373	373
Irrigation, Schleicher	F	IRRIGATION CONSERVATION - SCHLEICHER COUNTY	DEMAND REDUCTION	\$31	\$0	91	109	109	109	109	109
Irrigation, Schleicher	F	WEATHER MODIFICATION	F Weather Modification	\$1	\$1	275	275	275	275	275	275
Irrigation, Scurry	F	IRRIGATION CONSERVATION - SCURRY COUNTY	DEMAND REDUCTION	\$31	\$0	378	756	983	983	983	983
Irrigation, Sterling	F	IRRIGATION CONSERVATION - STERLING COUNTY	DEMAND REDUCTION	\$31	\$0	45	90	135	135	135	135
Irrigation, Sterling	F	WEATHER MODIFICATION	F Weather Modification	\$1	\$1	48	48	48	48	48	48
Irrigation, Sutton	F	IRRIGATION CONSERVATION - SUTTON COUNTY	DEMAND REDUCTION	\$31	\$0	56	112	168	168	168	168
Irrigation, Sutton	F	WEATHER MODIFICATION	F Weather Modification	\$1	\$1	34	34	34	34	34	34
Irrigation, Tom Green	F	IRRIGATION CONSERVATION - TOM GREEN COUNTY	DEMAND REDUCTION	\$31	\$0	2,125	4,249	5,099	5,099	5,099	5,099
Irrigation, Tom Green	F	WEATHER MODIFICATION	F Weather Modification	\$1	\$1	2,007	2,007	2,007	2,007	2,007	2,007
Irrigation, Upton	F	IRRIGATION CONSERVATION - UPTON COUNTY	DEMAND REDUCTION	\$31	\$0	520	1,040	1,560	1,560	1,560	1,560
Irrigation, Ward	F	IRRIGATION CONSERVATION - WARD COUNTY	DEMAND REDUCTION	\$31	\$0	158	316	474	474	474	474
Irrigation, Ward	F	WEATHER MODIFICATION	F Weather Modification	\$1	\$1	259	259	259	259	259	259
Irrigation, Winkler	F	IRRIGATION CONSERVATION - WINKLER COUNTY	DEMAND REDUCTION	\$31	\$0	175	351	526	526	526	526
Junction	F	DEVELOP ADDITIONAL EDWARDS-TRINITY PLATEAU AQUIFER SUPPLIES - JUNCTION	F Edwards-Trinity-Plateau, Pecos Valley, and Trinity Aquifers Kimble County	N/A	\$154	0	370	370	370	370	370
Junction	F	MUNICIPAL CONSERVATION - JUNCTION	DEMAND REDUCTION	\$1206	\$1203	8	8	8	8	8	8
Junction	F	SUBORDINATION - KIMBLE COUNTY ROR	F Colorado Run-of-River	\$2388	\$0	250	250	250	250	250	250
Kermit	F	MUNICIPAL CONSERVATION - KERMIT	DEMAND REDUCTION	\$964	\$916	18	18	19	19	19	19
Loraine	F	MUNICIPAL CONSERVATION - LORAINE	DEMAND REDUCTION	\$2138	\$2039	2	2	2	2	2	2

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Region F Recommended Water User Group (WUG) Water Management Strategies (WMS)

						WATER MANAGEMENT STRATEGY SUPPLY (ACRE-FEET PER YEAR)					
WUG ENTITY NAME	WMS SPONSOR REGION	WMS NAME	SOURCE NAME	UNIT COST 2020	UNIT COST 2070	2020	2030	2040	2050	2060	2070
Madera Valley WSC	F	MUNICIPAL CONSERVATION - MADERA VALLEY WSC	DEMAND REDUCTION	\$1425	\$1330	5	5	5	6	6	6
Manufacturing, Coleman	F	SUBORDINATION - LAKE COLEMAN	F Coleman Lake/Reservoir	\$0	\$0	2	2	2	2	2	2
Manufacturing, Ector	F	SUBORDINATION - CRMWD SYSTEM	F Colorado River MWD Lake/Reservoir System	\$0	\$0	186	0	0	199	381	551
Manufacturing, Howard	F	SUBORDINATION - CRMWD SYSTEM	F Colorado River MWD Lake/Reservoir System	\$0	\$0	147	500	500	653	793	924
Manufacturing, Kimble	F	DEVELOP ADDITIONAL ELLENBURGER SAN SABA AQUIFER SUPPLIES - KIMBLE COUNTY MANUFACTURING	F Ellenburger-San Saba Aquifer Kimble COUNTY	\$274	\$46	500	500	500	500	500	500
Manufacturing, Kimble	F	SUBORDINATION - KIMBLE COUNTY ROR	F Colorado Run-of-River	\$0	\$0	228	228	228	228	228	228
Manufacturing, Scurry	F	DEVELOP OTHER AQUIFER SUPPLIES - SCURRY COUNTY MANUFACTURING	F Other Aquifer Scurry COUNTY	\$356	\$56	160	160	160	160	160	160
Manufacturing, Tom Green	F	CONCHO RIVER WATER PROJECT - SAN ANGELO	F Colorado Indirect Reuse	\$1250	\$269	1	108	128	149	172	193
Manufacturing, Tom Green	F	SUBORDINATION - SAN ANGELO SYSTEM	F San Angelo Lakes Lake/Reservoir System	\$0	\$0	37	36	32	29	26	22
Mason	F	ADDITIONAL WATER TREATMENT - MASON	F Hickory Aquifer Mason COUNTY	\$856	\$594	700	690	682	677	676	676
Mason	F	MUNICIPAL CONSERVATION - MASON	DEMAND REDUCTION	\$1278	\$1278	7	7	7	7	7	7
McCamey	F	MUNICIPAL CONSERVATION - MCCAMEY	DEMAND REDUCTION	\$1264	\$1203	7	7	8	8	8	8
Menard	F	MUNICIPAL CONSERVATION - MENARD	DEMAND REDUCTION	\$1442	\$1442	5	5	5	5	5	5
Menard	F	SUBORDINATION - MENARD COUNTY IRRIGATION	F Colorado Run-of-River	\$1741	\$768	1,000	1,000	1,000	1,000	1,000	1,000
Mertzon	F	MUNICIPAL CONSERVATION - MERTZON	DEMAND REDUCTION	\$1886	\$1875	3	3	3	3	3	3
Midland	F	ADVANCED TREATMENT (RO) OF PAUL DAVIS WELL FIELD SUPPLIES - MIDLAND	F Ogallala and Edwards-Trinity-High Plains Aquifers Martin COUNTY	N/A	\$1025	0	0	5,899	6,101	6,235	6,327
Midland	F	MUNICIPAL CONSERVATION - MIDLAND	DEMAND REDUCTION	\$436	\$428	631	755	816	882	944	1,012
Midland	F	SUBORDINATION - CRMWD SYSTEM	F Colorado River MWD Lake/Reservoir System	\$0	N/A	1,844	0	0	0	0	0
Midland	F	SUBORDINATION - OH IVIE NON SYSTEM PORTION	F OH Ivie Lake/Reservoir Non-System Portion	\$0	N/A	329	0	0	0	0	0
Midland	F	WEST TEXAS WATER PARTNERSHIP	F Edwards-Trinity-Plateau, Pecos Valley, and Trinity Aquifers Fresh/Brackish Pecos COUNTY	N/A	\$403	0	20,209	20,070	19,930	19,791	19,651
Miles	F	CONCHO RIVER WATER PROJECT - SAN ANGELO	F Colorado Indirect Reuse	\$1250	\$269	27	43	45	49	53	59
Miles	F	MUNICIPAL CONSERVATION - MILES	DEMAND REDUCTION	\$1730	\$1614	3	3	3	3	3	3
Miles	F	SUBORDINATION - SAN ANGELO SYSTEM	F San Angelo Lakes Lake/Reservoir System	\$0	\$0	9	9	7	7	6	5

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Region F Recommended Water User Group (WUG) Water Management Strategies (WMS)

						WATER MANAGEMENT STRATEGY SUPPLY (ACRE-FEET PER YEAR)					
WUG ENTITY NAME	WMS SPONSOR REGION	WMS NAME	SOURCE NAME	UNIT COST 2020	UNIT COST 2070	2020	2030	2040	2050	2060	2070
Millersview-Doole WSC	F	MUNICIPAL CONSERVATION - MILLERSVIEW-DOOLE WSC	DEMAND REDUCTION	\$1088	\$1068	13	14	14	14	14	15
Millersview-Doole WSC	F	SUBORDINATION - OH IVIE NON SYSTEM PORTION	F OH Ivie Lake/Reservoir Non-System Portion	\$0	\$0	52	0	0	0	9	62
Millersview-Doole WSC	F	WATER AUDITS AND LEAK - MILLERSVIEW-DOOLE WSC	DEMAND REDUCTION	\$1776	\$1846	65	66	65	66	67	68
Mining, Andrews	F	MINING CONSERVATION - ANDREWS COUNTY	DEMAND REDUCTION	\$124	\$0	277	260	222	176	135	104
Mining, Borden	F	MINING CONSERVATION - BORDEN COUNTY	DEMAND REDUCTION	\$701	\$0	29	39	33	21	10	5
Mining, Brown	F	DEVELOP CROSS TIMBERS AQUIFER SUPPLIES - BROWN COUNTY, MINING	F Cross Timbers Aquifer Brown COUNTY	\$948	\$129	210	210	210	210	210	210
Mining, Brown	F	MINING CONSERVATION - BROWN COUNTY	DEMAND REDUCTION	\$149	\$0	66	66	67	67	66	66
Mining, Coke	F	MINING CONSERVATION - COKE COUNTY	DEMAND REDUCTION	\$124	\$0	20	20	18	16	14	12
Mining, Coleman	F	MINING CONSERVATION - COLEMAN COUNTY	DEMAND REDUCTION	\$124	\$0	5	4	4	4	3	3
Mining, Concho	F	MINING CONSERVATION - CONCHO COUNTY	DEMAND REDUCTION	\$124	\$0	20	20	18	15	13	12
Mining, Crane	F	MINING CONSERVATION - CRANE COUNTY	DEMAND REDUCTION	\$767	\$0	26	35	36	29	22	17
Mining, Crockett	F	MINING CONSERVATION - CROCKETT COUNTY	DEMAND REDUCTION	\$124	\$0	315	315	43	24	7	3
Mining, Ector	F	MINING CONSERVATION - ECTOR COUNTY	DEMAND REDUCTION	\$243	\$0	28	30	27	22	18	15
Mining, Glasscock	F	MINING CONSERVATION - GLASSCOCK COUNTY	DEMAND REDUCTION	\$124	\$0	248	248	189	134	88	63
Mining, Howard	F	MINING CONSERVATION - HOWARD COUNTY	DEMAND REDUCTION	\$124	\$0	143	143	101	59	25	13
Mining, Irion	F	MINING CONSERVATION - IRION COUNTY	DEMAND REDUCTION	\$124	\$0	322	322	231	28	14	7
Mining, Kimble	F	MINING CONSERVATION - KIMBLE COUNTY	DEMAND REDUCTION	\$124	\$0	1	1	1	1	1	1
Mining, Loving	F	MINING CONSERVATION - LOVING COUNTY	DEMAND REDUCTION	\$124	\$0	525	525	462	378	301	238
Mining, Martin	F	MINING CONSERVATION - MARTIN COUNTY	DEMAND REDUCTION	\$124	\$0	302	302	227	49	27	14
Mining, Mason	F	MINING CONSERVATION - MASON COUNTY	DEMAND REDUCTION	\$124	\$0	43	40	30	24	19	16
Mining, McCulloch	F	MINING CONSERVATION - MCCULLOCH COUNTY	DEMAND REDUCTION	\$124	\$0	375	351	279	236	203	176
Mining, Menard	F	MINING CONSERVATION - MENARD COUNTY	DEMAND REDUCTION	\$124	\$0	46	45	40	35	30	26
Mining, Midland	F	MINING CONSERVATION - MIDLAND COUNTY	DEMAND REDUCTION	\$124	\$0	445	445	344	231	46	32
Mining, Mitchell	F	MINING CONSERVATION - MITCHELL COUNTY	DEMAND REDUCTION	\$525	\$0	25	31	27	21	16	12
Mining, Pecos	F	DEVELOP PECOS VALLEY AQUIFER SUPPLIES - PECOS COUNTY MINING	F Edwards-Trinity-Plateau and Pecos Valley Aquifers Pecos COUNTY	\$164	\$55	3,000	3,000	3,000	3,000	3,000	3,000
Mining, Pecos	F	MINING CONSERVATION - PECOS COUNTY	DEMAND REDUCTION	\$124	\$0	539	539	539	434	67	52
Mining, Reagan	F	MINING CONSERVATION - REAGAN COUNTY	DEMAND REDUCTION	\$124	\$0	445	445	323	62	24	8

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Region F Recommended Water User Group (WUG) Water Management Strategies (WMS)

						WATER MANAGEMENT STRATEGY SUPPLY (ACRE-FEET PER YEAR)					
WUG ENTITY NAME	WMS SPONSOR REGION	WMS NAME	SOURCE NAME	UNIT COST 2020	UNIT COST 2070	2020	2030	2040	2050	2060	2070
Mining, Reeves	F	DEVELOP ADDITIONAL PECOS VALLEY AQUIFER SUPPLIES - REEVES COUNTY MINING	F Edwards-Trinity-Plateau and Pecos Valley Aquifers Reeves County	\$173	\$54	10,400	10,400	10,400	10,400	10,400	10,400
Mining, Reeves	F	MINING CONSERVATION - REEVES COUNTY	DEMAND REDUCTION	\$124	\$0	882	882	847	693	546	434
Mining, Runnels	F	MINING CONSERVATION - RUNNELS COUNTY	DEMAND REDUCTION	\$124	\$0	11	11	10	9	8	7
Mining, Schleicher	F	MINING CONSERVATION - SCHLEICHER COUNTY	DEMAND REDUCTION	\$445	\$0	26	31	24	16	10	6
Mining, Scurry	F	MINING CONSERVATION - SCURRY COUNTY	DEMAND REDUCTION	\$1295	\$0	20	32	34	25	17	12
Mining, Sterling	F	MINING CONSERVATION - STERLING COUNTY	DEMAND REDUCTION	\$479	\$0	33	40	34	22	11	6
Mining, Sutton	F	MINING CONSERVATION - SUTTON COUNTY	DEMAND REDUCTION	\$1269	\$0	19	30	32	24	16	11
Mining, Tom Green	F	CONCHO RIVER WATER PROJECT - SAN ANGELO	F Colorado Indirect Reuse	\$1250	\$269	2	3	4	4	4	5
Mining, Tom Green	F	MINING CONSERVATION - TOM GREEN COUNTY	DEMAND REDUCTION	\$314	\$0	44	45	47	47	48	49
Mining, Upton	F	MINING CONSERVATION - UPTON COUNTY	DEMAND REDUCTION	\$124	\$0	101	101	80	53	32	22
Mining, Ward	F	MINING CONSERVATION - WARD COUNTY	DEMAND REDUCTION	\$124	\$0	80	80	71	55	38	25
Mining, Winkler	F	MINING CONSERVATION - WINKLER COUNTY	DEMAND REDUCTION	\$935	\$0	33	49	42	32	22	16
Mitchell County Utility	F	MUNICIPAL CONSERVATION - MITCHELL COUNTY UTILITY	DEMAND REDUCTION	\$1407	\$1347	5	5	5	5	5	6
Monahans	F	MUNICIPAL CONSERVATION - MONAHANS	DEMAND REDUCTION	\$763	\$645	23	24	25	26	27	27
North Runnels WSC*	F	MUNICIPAL CONSERVATION - NORTH RUNNELS WSC	DEMAND REDUCTION	\$1407	\$1375	4	4	4	4	4	4
North Runnels WSC*	F	SUBORDINATION - BALLINGER/MOONEN LAKE	F Ballinger/Moonen Lake/Reservoir	\$0	\$0	11	10	10	10	10	11
North Runnels WSC*	F	SUBORDINATION - WINTERS LAKE	F Winters Lake/Reservoir	\$0	\$0	75	76	77	77	77	78
North Runnels WSC*	F	WEST TEXAS WATER PARTNERSHIP	F OH Ivie Lake/Reservoir Non-System Portion	N/A	\$1694	0	69	64	63	63	63
North Runnels WSC*	G	BRA SYSTEM OPERATION--SURPLUS	G BRA System Operations Permit Supply	\$1694	N/A	72	0	0	0	0	0
Odessa	F	MUNICIPAL CONSERVATION - ODESSA	DEMAND REDUCTION	\$440	\$427	568	680	752	829	905	990
Odessa	F	SUBORDINATION - CRMWD SYSTEM	F Colorado River MWD Lake/Reservoir System	\$0	\$0	2,451	2	0	3,492	7,263	11,493
Pecos	F	ADVANCED GROUNDWATER TREATMENT - PECOS CITY	F Edwards-Trinity-Plateau and Pecos Valley Aquifers Reeves County	N/A	\$319	0	3,360	3,360	3,360	3,360	3,360
Pecos	F	DIRECT NON-POTABLE REUSE - PECOS CITY	F Direct Non-Potable Reuse	\$1286	\$191	560	560	560	560	560	560
Pecos	F	DIRECT POTABLE REUSE - PECOS CITY	F Direct Potable Reuse	N/A	\$2443	0	925	925	925	925	925
Pecos	F	MUNICIPAL CONSERVATION - PECOS	DEMAND REDUCTION	\$607	\$498	29	31	33	34	35	35

*A single asterisk next to a WUG's name denotes that the WUG is split by two or more planning regions.

Region F Recommended Water User Group (WUG) Water Management Strategies (WMS)

						WATER MANAGEMENT STRATEGY SUPPLY (ACRE-FEET PER YEAR)					
WUG ENTITY NAME	WMS SPONSOR REGION	WMS NAME	SOURCE NAME	UNIT COST 2020	UNIT COST 2070	2020	2030	2040	2050	2060	2070
Pecos	F	PARTNER WITH MADERA VALLEY WSC & EXPAND WELL FIELD - PECOS CITY	F Edwards-Trinity-Plateau and Pecos Valley Aquifers Reeves COUNTY	N/A	\$89	0	8,960	8,960	8,960	8,960	8,960
Pecos County Fresh Water	F	MUNICIPAL CONSERVATION - PECOS COUNTY FRESH WATER	DEMAND REDUCTION	\$1985	\$1716	2	2	3	3	3	3
Pecos County WCID 1	F	DEVELOP ADDITIONAL EDWARDS-TRINITY PLATEAU AQUIFER SUPPLIES - PECOS COUNTY WCID 1	F Edwards-Trinity-Plateau, Pecos Valley, and Trinity Aquifers Fresh/Brackish Pecos COUNTY	\$1224	\$204	250	250	250	250	250	250
Pecos County WCID 1	F	MUNICIPAL CONSERVATION - PECOS WCID	DEMAND REDUCTION	\$1166	\$1099	9	10	11	11	12	12
Rankin	F	MUNICIPAL CONSERVATION - RANKIN	DEMAND REDUCTION	\$1848	\$1690	3	3	3	3	3	3
Richland SUD*	F	MUNICIPAL CONSERVATION - RICHLAND SUD	DEMAND REDUCTION	\$1712	\$1665	3	3	3	3	3	3
Robert Lee	F	MUNICIPAL CONSERVATION - ROBERT LEE	DEMAND REDUCTION	\$1672	\$1672	3	3	3	3	3	3
Robert Lee	F	SUBORDINATION - OAK CREEK RESERVOIR	F Oak Creek Lake/Reservoir	N/A	\$202	0	238	239	239	239	239
San Angelo	F	BRUSH CONTROL - SAN ANGELO	F San Angelo Lakes Lake/Reservoir System	\$489	\$489	90	90	90	90	90	90
San Angelo	F	CONCHO RIVER WATER PROJECT - SAN ANGELO	F Colorado Indirect Reuse	\$1250	\$269	7,723	7,518	7,447	7,365	7,277	7,187
San Angelo	F	HICKORY WELL FIELD EXPANSION IN MCCULLOCH COUNTY - SAN ANGELO	F Hickory Aquifer McCulloch COUNTY	N/A	\$1037	0	1,040	3,040	3,040	3,040	3,040
San Angelo	F	MUNICIPAL CONSERVATION - SAN ANGELO	DEMAND REDUCTION	\$448	\$444	459	532	558	592	629	668
San Angelo	F	SUBORDINATION - OH IVIE NON SYSTEM PORTION	F OH Ivie Lake/Reservoir Non-System Portion	\$0	N/A	329	0	0	0	0	0
San Angelo	F	SUBORDINATION - SAN ANGELO SYSTEM	F San Angelo Lakes Lake/Reservoir System	\$0	\$0	1,547	1,460	1,375	1,288	1,203	1,117
San Angelo	F	WEST TEXAS WATER PARTNERSHIP	F Edwards-Trinity-Plateau, Pecos Valley, and Trinity Aquifers Fresh/Brackish Pecos COUNTY	N/A	\$403	0	8,191	8,330	8,470	8,609	8,749
Santa Anna	F	MUNICIPAL CONSERVATION - SANTA ANNA	DEMAND REDUCTION	\$1623	\$1606	3	4	4	4	4	4
Snyder	F	MUNICIPAL CONSERVATION - SNYDER	DEMAND REDUCTION	\$957	\$720	41	47	51	55	59	93
Snyder	F	SUBORDINATION - CRMWD SYSTEM	F Colorado River MWD Lake/Reservoir System	\$0	\$0	194	0	0	256	524	814
Sonora	F	DEVELOP ADDITIONAL EDWARDS-TRINITY-PLATEAU AQUIFER SUPPLIES - SONORA	F Edwards-Trinity-Plateau, Pecos Valley, and Trinity Aquifers Sutton COUNTY	\$1000	\$114	35	35	35	35	35	35
Sonora	F	MUNICIPAL CONSERVATION - SONORA	DEMAND REDUCTION	\$1187	\$1152	9	9	9	10	10	10
Sonora	F	WATER AUDITS AND LEAK - SONORA	DEMAND REDUCTION	\$763	\$750	106	112	114	116	117	118

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Region F Recommended Water User Group (WUG) Water Management Strategies (WMS)

						WATER MANAGEMENT STRATEGY SUPPLY (ACRE-FEET PER YEAR)					
WUG ENTITY NAME	WMS SPONSOR REGION	WMS NAME	SOURCE NAME	UNIT COST 2020	UNIT COST 2070	2020	2030	2040	2050	2060	2070
Southwest Sandhills WSC	F	MUNICIPAL CONSERVATION - SOUTHWEST SANDHILLS WSC	DEMAND REDUCTION	\$863	\$589	20	22	24	26	28	30
Stanton	F	MUNICIPAL CONSERVATION - STANTON	DEMAND REDUCTION	\$1199	\$1124	8	9	10	10	11	11
Stanton	F	SUBORDINATION - CRMWD SYSTEM	F Colorado River MWD Lake/Reservoir System	\$0	\$0	31	0	0	33	62	90
Steam-Electric Power, Ector	F	SUBORDINATION - CRMWD SYSTEM	F Colorado River MWD Lake/Reservoir System	\$0	\$0	109	0	0	114	219	316
Steam-Electric Power, Howard	F	SUBORDINATION - CRMWD SYSTEM	F Colorado River MWD Lake/Reservoir System	\$0	\$0	21	0	0	22	40	59
Steam-Electric Power, Mitchell	F	SUBORDINATION - LAKE COLORADO CITY AND CHAMPION LAKE SYSTEM	F Colorado City-Champion Lake/Reservoir System	\$0	\$0	1,170	1,156	1,142	1,128	1,114	1,100
Sterling City	F	MUNICIPAL CONSERVATION - STERLING CITY	DEMAND REDUCTION	\$1759	\$1718	3	3	3	3	3	3
Tom Green County FWSD 3	F	MUNICIPAL CONSERVATION - TOM GREEN COUNTY FWSD 3	DEMAND REDUCTION	\$1616	\$1409	3	4	4	4	5	5
Wickett	F	MUNICIPAL CONSERVATION - WICKETT	DEMAND REDUCTION	\$2487	\$2240	2	2	2	2	2	2
Wink	F	MUNICIPAL CONSERVATION - WINK	DEMAND REDUCTION	\$1665	\$1449	3	4	4	4	4	5
Winters	F	MUNICIPAL CONSERVATION - WINTERS	DEMAND REDUCTION	\$1191	\$1183	17	12	9	9	9	9
Winters	F	SUBORDINATION - WINTERS LAKE	F Winters Lake/Reservoir	\$0	\$0	100	99	98	98	98	97
Winters	F	WEST TEXAS WATER PARTNERSHIP	F OH Ivie Lake/Reservoir Non-System Portion	N/A	\$1694	0	112	118	119	119	119
Winters	G	BRA SYSTEM OPERATION--SURPLUS	G BRA System Operations Permit Supply	\$1694	N/A	109	0	0	0	0	0
Zephyr WSC*	F	MUNICIPAL CONSERVATION - ZEPHYR WSC	DEMAND REDUCTION	\$1091	\$1087	13	13	13	13	13	13
Zephyr WSC*	F	WATER AUDITS AND LEAK - ZEPHYR WSC	DEMAND REDUCTION	\$5958	\$6384	19	19	18	18	18	18
REGION F RECOMMENDED WMS SUPPLY TOTAL						77,525	140,159	165,361	169,912	174,746	180,842

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Region F Recommended Projects Associated with Water Management Strategies

SPONSOR NAME	SPONSOR IS WWP?	ONLINE DECADE	PROJECT NAME	PROJECT DESCRIPTION	CAPITAL COST
Abilene	YES	2030	WEST TEXAS WATER PARTNERSHIP	CONVEYANCE/TRANSMISSION PIPELINE; EVAPORATIVE POND; MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT; PUMP STATION; STORAGE TANK	\$162,408,000
Balmorhea	YES	2030	DEVELOP EDWARDS-TRINITY-PLATEAU AQUIFER SUPPLIES - BALMORHEA	CONVEYANCE/TRANSMISSION PIPELINE; MULTIPLE WELLS/WELL FIELD	\$1,948,000
Big Spring	YES	2030	NEW WATER TREATMENT PLANT - BIG SPRING	NEW WATER TREATMENT PLANT	\$104,651,000
Brady	YES	2020	ADVANCED GROUNDWATER TREATMENT - BRADY	NEW WATER TREATMENT PLANT	\$29,719,000
Bronte	YES	2030	BRONTE - DEVELOP EDWARDS TRINITY PLATEAU AQUIFER SUPPLIES IN NOLAN CO	CONVEYANCE/TRANSMISSION PIPELINE; MULTIPLE WELLS/WELL FIELD	\$4,232,000
Bronte	YES	2030	REHABILITATION OF OAK CREEK PIPELINE - BRONTE	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK	\$9,896,000
Bronte	YES	2030	WATER TREATMENT PLANT EXPANSION - BRONTE	WATER TREATMENT PLANT EXPANSION	\$10,270,000
Brookesmith SUD	YES	2020	WATER AUDITS AND LEAK - BROOKESMITH SUD 2020	WATER LOSS CONTROL	\$1,737,000
Brookesmith SUD	YES	2040	WATER AUDITS AND LEAK - BROOKESMITH SUD 2040	WATER LOSS CONTROL	\$1,756,500
Brookesmith SUD	YES	2060	WATER AUDITS AND LEAK - BROOKESMITH SUD 2060	WATER LOSS CONTROL	\$1,756,500
Coleman	YES	2020	WATER AUDITS AND LEAK - COLEMAN 2020	WATER LOSS CONTROL	\$1,074,800
Coleman	YES	2040	WATER AUDITS AND LEAK - COLEMAN 2040	WATER LOSS CONTROL	\$1,085,600
Coleman	YES	2060	WATER AUDITS AND LEAK - COLEMAN 2060	WATER LOSS CONTROL	\$1,085,600
Colorado River MWD	YES	2050	CRMWD - WARD COUNTY WELL FIELD EXPANSION AND DEVELOPMENT OF WINKLER COUNTY WELL FIELD	CONVEYANCE/TRANSMISSION PIPELINE; MULTIPLE WELLS/WELL FIELD; PUMP STATION	\$168,324,000
Colorado River MWD	YES	2030	CRMWD - WARD COUNTY WELL REPLACEMENT	MULTIPLE WELLS/WELL FIELD	\$10,440,000
County-Other, Midland	YES	2030	DEVELOP PECOS VALLEY AQUIFER SUPPLIES FROM ROARK RANCH IN WINKLER CO - MIDLAND COUNTY OTHER	MULTIPLE WELLS/WELL FIELD	\$24,557,000
Grandfalls	NO	2050	DEVELOP PECOS VALLEY AQUIFER SUPPLIES - GRANDFALLS	MULTIPLE WELLS/WELL FIELD; CONVEYANCE/TRANSMISSION PIPELINE	\$2,410,000
Greater Gardendale WSC	NO	2030	PURCHASE TREATED WATER FROM CITY OF ODESSA - GREATER GARDENDALE WSC	CONVEYANCE/TRANSMISSION PIPELINE; NEW CONTRACT; PUMP STATION	\$6,078,000
Irrigation, Andrews	NO	2020	IRRIGATION CONSERVATION - ANDREWS COUNTY	CONSERVATION - AGRICULTURAL	\$1,547,740
Irrigation, Borden	NO	2020	IRRIGATION CONSERVATION - BORDEN COUNTY	CONSERVATION - AGRICULTURAL	\$224,124
Irrigation, Brown	NO	2020	IRRIGATION CONSERVATION - BROWN COUNTY	CONSERVATION - AGRICULTURAL	\$494,000
Irrigation, Coke	NO	2020	IRRIGATION CONSERVATION - COKE COUNTY	CONSERVATION - AGRICULTURAL	\$62,837
Irrigation, Coleman	NO	2020	IRRIGATION CONSERVATION - COLEMAN COUNTY	CONSERVATION - AGRICULTURAL	\$35,340
Irrigation, Concho	NO	2020	IRRIGATION CONSERVATION - CONCHO COUNTY	CONSERVATION - AGRICULTURAL	\$409,807
Irrigation, Crockett	YES	2020	IRRIGATION CONSERVATION - CROCKETT COUNTY	CONSERVATION - AGRICULTURAL	\$15,390
Irrigation, Ector	NO	2020	IRRIGATION CONSERVATION - ECTOR COUNTY	CONSERVATION - AGRICULTURAL	\$86,184
Irrigation, Glasscock	NO	2020	IRRIGATION CONSERVATION - GLASSCOCK COUNTY	CONSERVATION - AGRICULTURAL	\$1,558,122
Irrigation, Howard	NO	2020	IRRIGATION CONSERVATION - HOWARD COUNTY	CONSERVATION - AGRICULTURAL	\$575,419
Irrigation, Irion	YES	2020	IRRIGATION CONSERVATION - IRION COUNTY	CONSERVATION - AGRICULTURAL	\$120,042
Irrigation, Kimble	NO	2020	IRRIGATION CONSERVATION - KIMBLE COUNTY	CONSERVATION - AGRICULTURAL	\$242,318
Irrigation, Martin	NO	2020	IRRIGATION CONSERVATION - MARTIN COUNTY	CONSERVATION - AGRICULTURAL	\$4,159,974
Irrigation, Mason	NO	2020	IRRIGATION CONSERVATION - MASON COUNTY	CONSERVATION - AGRICULTURAL	\$566,124
Irrigation, McCulloch	NO	2020	IRRIGATION CONSERVATION - MCCULLOCH COUNTY	CONSERVATION - AGRICULTURAL	\$264,936
Irrigation, Menard	NO	2020	IRRIGATION CONSERVATION - MENARD COUNTY	CONSERVATION - AGRICULTURAL	\$417,582
Irrigation, Midland	NO	2020	IRRIGATION CONSERVATION - MIDLAND COUNTY	CONSERVATION - AGRICULTURAL	\$2,064,198
Irrigation, Mitchell	NO	2020	IRRIGATION CONSERVATION - MITCHELL COUNTY	CONSERVATION - AGRICULTURAL	\$194,362
Irrigation, Pecos	YES	2020	IRRIGATION CONSERVATION - PECOS COUNTY	CONSERVATION - AGRICULTURAL	\$16,341,330
Irrigation, Reagan	YES	2020	IRRIGATION CONSERVATION - REAGAN COUNTY	CONSERVATION - AGRICULTURAL	\$2,511,534
Irrigation, Reeves	YES	2020	IRRIGATION CONSERVATION - REEVES COUNTY	CONSERVATION - AGRICULTURAL	\$6,718,818
Irrigation, Runnels	NO	2020	IRRIGATION CONSERVATION - RUNNELS COUNTY	CONSERVATION - AGRICULTURAL	\$283,176
Irrigation, Schleicher	YES	2020	IRRIGATION CONSERVATION - SCHLEICHER COUNTY	CONSERVATION - AGRICULTURAL	\$82,582
Irrigation, Scurry	NO	2020	IRRIGATION CONSERVATION - SCURRY COUNTY	CONSERVATION - AGRICULTURAL	\$746,829
Irrigation, Sterling	YES	2020	IRRIGATION CONSERVATION - STERLING COUNTY	CONSERVATION - AGRICULTURAL	\$102,486
Irrigation, Sutton	YES	2020	IRRIGATION CONSERVATION - SUTTON COUNTY	CONSERVATION - AGRICULTURAL	\$128,000

Region F Recommended Projects Associated with Water Management Strategies

SPONSOR NAME	SPONSOR IS WWP?	ONLINE DECADE	PROJECT NAME	PROJECT DESCRIPTION	CAPITAL COST
Irrigation, Tom Green	YES	2020	IRRIGATION CONSERVATION - TOM GREEN COUNTY	CONSERVATION - AGRICULTURAL	\$3,875,362
Irrigation, Upton	NO	2020	IRRIGATION CONSERVATION - UPTON COUNTY	CONSERVATION - AGRICULTURAL	\$1,185,942
Irrigation, Ward	YES	2020	IRRIGATION CONSERVATION - WARD COUNTY	CONSERVATION - AGRICULTURAL	\$360,240
Irrigation, Winkler	NO	2020	IRRIGATION CONSERVATION - WINKLER COUNTY	CONSERVATION - AGRICULTURAL	\$399,798
Junction	YES	2030	DEVELOP EDWARDS-TRINITY PLATEAU AQUIFER SUPPLIES - JUNCTION	MULTIPLE WELLS/WELL FIELD; CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION	\$7,457,000
Junction	YES	2020	DREDGE RIVER INTAKE - JUNCTION	DREDGE TO RECOVER CAPACITY; SURFACE WATER INTAKE MODIFICATION	\$8,487,000
Manufacturing, Kimble	YES	2020	DEVELOP ADDITIONAL ELLENBURGER SAN SABA AQUIFER SUPPLIES - KIMBLE COUNTY MANUFACTURING	MULTIPLE WELLS/WELL FIELD	\$1,621,000
Manufacturing, Scurry	NO	2020	DEVELOP OTHER AQUIFER SUPPLIES - SCURRY COUNTY MANUFACTURING	MULTIPLE WELLS/WELL FIELD	\$677,000
Mason	YES	2020	ADDITIONAL TREATMENT - MASON	NEW WATER TREATMENT PLANT	\$2,605,000
Menard	NO	2020	DEVELOP ALLUVIAL WELL SUPPLIES - MENARD	CONVEYANCE/TRANSMISSION PIPELINE; MULTIPLE WELLS/WELL FIELD; STORAGE TANK; WATER TREATMENT PLANT EXPANSION	\$13,835,000
Midland	YES	2040	ADVANCED TREATMENT (RO) OF PAUL DAVIS WELL FIELD SUPPLIES - MIDLAND	NEW WATER TREATMENT PLANT; PUMP STATION; CONVEYANCE/TRANSMISSION PIPELINE	\$60,804,000
Midland	YES	2030	WEST TEXAS WATER PARTNERSHIP	CONVEYANCE/TRANSMISSION PIPELINE; EVAPORATIVE POND; MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT; PUMP STATION; STORAGE TANK	\$290,014,000
Millersview-Doole WSC	YES	2020	WATER AUDITS AND LEAK - MILLERSVIEW-DOOLE WSC 2020	WATER LOSS CONTROL	\$965,800
Millersview-Doole WSC	YES	2040	WATER AUDITS AND LEAK - MILLERSVIEW-DOOLE WSC 2040	WATER LOSS CONTROL	\$991,000
Millersview-Doole WSC	YES	2060	WATER AUDITS AND LEAK - MILLERSVIEW-DOOLE WSC 2060	WATER LOSS CONTROL	\$1,009,100
Mining, Andrews	NO	2020	MINING CONSERVATION - ANDREWS COUNTY	CONSERVATION - MINING	\$5,540,000
Mining, Borden	NO	2020	MINING CONSERVATION - BORDEN COUNTY	CONSERVATION - MINING	\$780,000
Mining, Brown	NO	2020	DEVELOP CROSS TIMBERS AQUIFER SUPPLIES - BROWN COUNTY, MINING	MULTIPLE WELLS/WELL FIELD	\$2,440,000
Mining, Brown	NO	2020	MINING CONSERVATION - BROWN COUNTY	CONSERVATION - MINING	\$1,340,000
Mining, Coke	NO	2020	MINING CONSERVATION - COKE COUNTY	CONSERVATION - MINING	\$400,000
Mining, Coleman	NO	2020	MINING CONSERVATION - COLEMAN COUNTY	CONSERVATION - MINING	\$100,000
Mining, Concho	NO	2020	MINING CONSERVATION - CONCHO COUNTY	CONSERVATION - MINING	\$400,000
Mining, Crane	NO	2020	MINING CONSERVATION - CRANE COUNTY	CONSERVATION - MINING	\$720,000
Mining, Crockett	NO	2020	MINING CONSERVATION - CROCKETT COUNTY	CONSERVATION - MINING	\$6,300,000
Mining, Ector	NO	2020	MINING CONSERVATION - ECTOR COUNTY	CONSERVATION - MINING	\$600,000
Mining, Glasscock	NO	2020	MINING CONSERVATION - GLASSCOCK COUNTY	CONSERVATION - MINING	\$4,960,000
Mining, Howard	NO	2020	MINING CONSERVATION - HOWARD COUNTY	CONSERVATION - MINING	\$2,860,000
Mining, Irion	NO	2020	MINING CONSERVATION - IRION COUNTY	CONSERVATION - MINING	\$6,440,000
Mining, Kimble	NO	2020	MINING CONSERVATION - KIMBLE COUNTY	CONSERVATION - MINING	\$20,000
Mining, Loving	NO	2020	MINING CONSERVATION - LOVING COUNTY	CONSERVATION - MINING	\$10,500,000
Mining, Martin	NO	2020	MINING CONSERVATION - MARTIN COUNTY	CONSERVATION - MINING	\$6,040,000
Mining, Mason	NO	2020	MINING CONSERVATION - MASON COUNTY	CONSERVATION - MINING	\$860,000
Mining, McCulloch	NO	2020	MINING CONSERVATION - MCCULLOCH COUNTY	CONSERVATION - MINING	\$7,500,000
Mining, Menard	NO	2020	MINING CONSERVATION - MENARD COUNTY	CONSERVATION - MINING	\$920,000
Mining, Midland	NO	2020	MINING CONSERVATION - MIDLAND COUNTY	CONSERVATION - MINING	\$8,900,000
Mining, Mitchell	NO	2020	MINING CONSERVATION - MITCHELL COUNTY	CONSERVATION - MINING	\$620,000
Mining, Pecos	NO	2020	DEVELOP PECOS VALLEY AQUIFER SUPPLIES - PECOS, MINING	MULTIPLE WELLS/WELL FIELD	\$492,000
Mining, Pecos	NO	2020	MINING CONSERVATION - PECOS COUNTY	CONSERVATION - MINING	\$10,780,000
Mining, Reagan	NO	2020	MINING CONSERVATION - REAGAN COUNTY	CONSERVATION - MINING	\$8,900,000
Mining, Reeves	NO	2020	DEVELOP ADDITIONAL PECOS VALLEY AQUIFER SUPPLIES - REEVES COUNTY MINING	MULTIPLE WELLS/WELL FIELD	\$17,465,000

Region F Recommended Projects Associated with Water Management Strategies

SPONSOR NAME	SPONSOR IS WWP?	ONLINE DECADE	PROJECT NAME	PROJECT DESCRIPTION	CAPITAL COST
Mining, Reeves	NO	2020	MINING CONSERVATION - REEVES COUNTY	CONSERVATION - MINING	\$17,640,000
Mining, Runnels	NO	2020	MINING CONSERVATION - RUNNELS COUNTY	CONSERVATION - MINING	\$220,000
Mining, Schleicher	NO	2020	MINING CONSERVATION - SCHLEICHER COUNTY	CONSERVATION - MINING	\$620,000
Mining, Scurry	NO	2020	MINING CONSERVATION - SCURRY COUNTY	CONSERVATION - MINING	\$680,000
Mining, Sterling	NO	2020	MINING CONSERVATION - STERLING COUNTY	CONSERVATION - MINING	\$800,000
Mining, Sutton	NO	2020	MINING CONSERVATION - SUTTON COUNTY	CONSERVATION - MINING	\$640,000
Mining, Tom Green	NO	2020	MINING CONSERVATION - TOM GREEN COUNTY	CONSERVATION - MINING	\$980,000
Mining, Upton	NO	2020	MINING CONSERVATION - UPTON COUNTY	CONSERVATION - MINING	\$2,020,000
Mining, Ward	NO	2020	MINING CONSERVATION - WARD COUNTY	CONSERVATION - MINING	\$1,600,000
Mining, Winkler	NO	2020	MINING CONSERVATION - WINKLER COUNTY	CONSERVATION - MINING	\$980,000
Odessa	YES	2030	RO TREATMENT OF EXISTING SUPPLIES - ODESSA	NEW WATER TREATMENT PLANT; CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK	\$83,062,000
Pecos	YES	2030	ADVANCED GROUNDWATER TREATMENT - PECOS CITY	NEW WATER TREATMENT PLANT	\$27,680,000
Pecos	YES	2020	DIRECT NON-POTABLE REUSE - PECOS CITY	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK	\$8,707,000
Pecos	YES	2030	DIRECT POTABLE REUSE - PECOS CITY	CONVEYANCE/TRANSMISSION PIPELINE; NEW WATER TREATMENT PLANT; PUMP STATION	\$29,541,000
Pecos	YES	2030	PARTNER WITH MADERA VALLEY WSC & EXPAND WELL FIELD - PECOS CITY	CONVEYANCE/TRANSMISSION PIPELINE; MULTIPLE WELLS/WELL FIELD; PUMP STATION; STORAGE TANK	\$43,107,000
Pecos County WCID 1	YES	2020	DEVELOP EDWARDS-TRINITY PLATEAU AQUIFER SUPPLIES - PECOS COUNTY WCID 1	MULTIPLE WELLS/WELL FIELD	\$3,630,000
Pecos County WCID 1	YES	2020	TRANSMISSION PIPELINE REPLACEMENT - PECOS COUNTY WCID 1	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK	\$26,102,000
San Angelo	YES	2020	CONCHO RIVER WATER PROJECT - SAN ANGELO	CONVEYANCE/TRANSMISSION PIPELINE; WATER TREATMENT PLANT EXPANSION; NEW SURFACE WATER INTAKE; PUMP STATION	\$116,861,000
San Angelo	YES	2030	HICKORY WELL FIELD EXPANSION IN MCCULLOCH COUNTY - SAN ANGELO	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT; PUMP STATION	\$55,491,000
San Angelo	YES	2030	WEST TEXAS WATER PARTNERSHIP	CONVEYANCE/TRANSMISSION PIPELINE; EVAPORATIVE POND; MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT; PUMP STATION; STORAGE TANK	\$96,671,000
Sonora	YES	2020	DEVELOP ADDITIONAL EDWARDS-TRINITY-PLATEAU AQUIFER SUPPLIES - SONORA	MULTIPLE WELLS/WELL FIELD; CONVEYANCE/TRANSMISSION PIPELINE	\$437,000
Sonora	YES	2020	WATER AUDITS AND LEAK - SONORA 2020	WATER LOSS CONTROL	\$679,900
Sonora	YES	2040	WATER AUDITS AND LEAK - SONORA 2040	WATER LOSS CONTROL	\$707,400
Sonora	YES	2060	WATER AUDITS AND LEAK - SONORA 2060	WATER LOSS CONTROL	\$720,800
Winters	YES	2020	PURCHASE FROM PROVIDER - WINTERS	CONVEYANCE/TRANSMISSION PIPELINE; NEW CONTRACT	\$974,000
Zephyr WSC	NO	2020	WATER AUDITS AND LEAK - ZEPHYR WSC 2020	WATER LOSS CONTROL	\$944,700
Zephyr WSC	NO	2040	WATER AUDITS AND LEAK - ZEPHYR WSC 2040	WATER LOSS CONTROL	\$954,800
Zephyr WSC	NO	2060	WATER AUDITS AND LEAK - ZEPHYR WSC 2060	WATER LOSS CONTROL	\$954,800

REGION F RECOMMENDED CAPITAL COST TOTAL **\$1,606,951,896**

Region F Alternative Water User Group (WUG) Water Management Strategies (WMS)

						WATER MANAGEMENT STRATEGY SUPPLY (ACRE-FEET PER YEAR)					
WUG ENTITY NAME	WMS SPONSOR REGION	WMS NAME	SOURCE NAME	UNIT COST 2020	UNIT COST 2070	2020	2030	2040	2050	2060	2070
Andrews	F	ANDREWS - DEVELOP OGALLALA AQUIFER SUPPLIES	F Ogallala and Edwards-Trinity-High Plains Aquifers Andrews COUNTY	\$496	\$104	2,810	2,810	2,810	2,810	2,810	2,810
Andrews	F	CITY OF ANDREWS - DEVELOP EDWARDS TRINITY PLATEAU AQUIFER SUPPLIES	F Ogallala and Edwards-Trinity-High Plains Aquifers Andrews COUNTY	\$433	\$50	2,600	2,600	2,600	2,600	2,600	2,600
Ballinger	F	REGIONAL SYSTEM FROM LAKE BROWNWOOD TO RUNNELS AND COKE COUNTIES	F Brownwood Lake/Reservoir	N/A	\$1005	0	0	1,345	1,345	1,345	1,345
Ballinger	F	REGIONAL SYSTEM FROM LAKE FT. PHANTOM HILL TO RUNNELS AND COKE COUNTIES	G Fort Phantom Hill Lake/Reservoir	N/A	\$1312	0	0	465	447	430	413
Bronte	F	BRONTE - DEVELOP GROUNDWATER FROM OTHER AQUIFER IN RUNNELS COUNTY	F Other Aquifer Runnels COUNTY	N/A	\$280	0	800	800	800	800	800
Bronte	F	DEVELOP OTHER AQUIFER SUPPLIES IN SOUTHWEST COKE COUNTY - BRONTE	F Other Aquifer Coke COUNTY	N/A	\$340	0	800	800	800	800	800
Bronte	F	REGIONAL SYSTEM FROM LAKE BROWNWOOD TO RUNNELS AND COKE COUNTIES	F Brownwood Lake/Reservoir	N/A	\$1005	0	0	280	280	280	280
Bronte	F	REGIONAL SYSTEM FROM LAKE FT. PHANTOM HILL TO RUNNELS AND COKE COUNTIES	G Fort Phantom Hill Lake/Reservoir	N/A	\$1312	0	0	325	313	301	288
Colorado City	F	COLORADO CITY - DOCKUM WELL FIELD EXPANSION	F Dockum Aquifer Mitchell COUNTY	\$1824	\$276	170	170	170	170	170	170
County-Other, Andrews	F	ANDREWS COUNTY OTHER - DEVELOP EDWARDS TRINITY PLATEAU AQUIFER SUPPLIES	F Ogallala and Edwards-Trinity-High Plains Aquifers Andrews COUNTY	\$252	\$40	250	250	250	250	250	250
Greater Gardendale WSC	F	GREATER GARDENDALE WSC - PURCHASE WATER FROM MIDLAND COUNTY FWSD 1	F Edwards-Trinity-Plateau and Pecos Valley Aquifers Winkler COUNTY	N/A	\$1890	0	445	445	445	445	445
Livestock, Andrews	F	ANDREWS COUNTY LIVESTOCK - DEVELOP EDWARDS TRINITY PLATEAU AQUIFER SUPPLIES	F Ogallala and Edwards-Trinity-High Plains Aquifers Andrews COUNTY	\$433	\$50	60	60	60	60	60	60
Manufacturing, Andrews	F	ANDREWS COUNTY MANUFACTURING - DEVELOP EDWARDS TRINITY PLATEAU AQUIFER SUPPLIES	F Ogallala and Edwards-Trinity-High Plains Aquifers Andrews COUNTY	\$543	\$43	210	210	210	210	210	210

*A single asterisk next to a WUG's name denotes that the WUG is split by two or more planning regions.

Region F Alternative Water User Group (WUG) Water Management Strategies (WMS)

						WATER MANAGEMENT STRATEGY SUPPLY (ACRE-FEET PER YEAR)					
WUG ENTITY NAME	WMS SPONSOR REGION	WMS NAME	SOURCE NAME	UNIT COST 2020	UNIT COST 2070	2020	2030	2040	2050	2060	2070
Menard	F	MENARD - DEVELOP HICKORY AQUIFER SUPPLIES	F Hickory Aquifer Menard COUNTY	N/A	\$165	0	200	200	200	200	200
Midland	F	WEST TEXAS WATER PARTNERSHIP (ALTERNATIVE)	F Edwards-Trinity-Plateau, Pecos Valley, and Trinity Aquifers Fresh/Brackish Pecos COUNTY	N/A	\$342	0	28,400	28,400	28,400	28,400	28,400
Odessa	F	ODESSA - DEVELOP CAPITAN REEF COMPLEX AQUIFER SUPPLIES IN WARD COUNTY	F Capitan Reef Complex Aquifer Fresh/Brackish Ward COUNTY	N/A	\$884	0	0	8,400	8,400	8,400	8,400
Odessa	F	ODESSA - DEVELOP EDWARDS-TRINITY AND CAPITAN REEF COMPLEX AQUIFER SUPPLIES IN PECOS COUNTY	F Capitan Reef Complex Aquifer Fresh/Brackish Pecos COUNTY	N/A	\$1172	0	0	5,600	14,000	14,000	14,000
Odessa	F	ODESSA - DEVELOP EDWARDS-TRINITY AND CAPITAN REEF COMPLEX AQUIFER SUPPLIES IN PECOS COUNTY	F Edwards-Trinity-Plateau, Pecos Valley, and Trinity Aquifers Fresh/Brackish Pecos COUNTY	N/A	\$1172	0	0	5,600	14,000	14,000	14,000
Pecos	F	PECOS - POTABLE REUSE WITH AQUIFER STORAGE AND RECOVERY (ASR)	F Edwards-Trinity-Plateau and Pecos Valley Aquifers ASR Reeves COUNTY	N/A	\$3301	0	695	695	695	695	695
Robert Lee	F	DEVELOP OTHER AQUIFER SUPPLIES IN SOUTHWEST COKE COUNTY - BRONTE	F Other Aquifer Coke COUNTY	N/A	N/A	0	0	0	0	0	0
Robert Lee	F	REGIONAL SYSTEM FROM LAKE BROWNWOOD TO RUNNELS AND COKE COUNTIES	F Brownwood Lake/Reservoir	N/A	\$1005	0	0	448	448	448	448
Robert Lee	F	REGIONAL SYSTEM FROM LAKE FT. PHANTOM HILL TO RUNNELS AND COKE COUNTIES	G Fort Phantom Hill Lake/Reservoir	N/A	\$1312	0	0	122	117	112	108
Robert Lee	F	ROBERT LEE - DEVELOPMENT OF EDWARDS TRINITY PLATEAU AQUIFER SUPPLIES IN TOM GREEN CO	F Edwards-Trinity-Plateau, Pecos Valley, and Trinity Aquifers Tom Green COUNTY	N/A	\$556	0	160	160	160	160	160
Robert Lee	F	ROBERT LEE - REPAIR AND EXPAND WATER TREATMENT PLANT	F EV Spence Lake/Reservoir Non-System Portion	N/A	\$1284	0	335	335	335	335	335
Robert Lee	F	ROBERT LEE - REPAIR AND EXPAND WATER TREATMENT PLANT	F Mountain Creek Lake/Reservoir	N/A	\$1284	0	168	168	168	168	168
San Angelo	F	SAN ANGELO - DEVELOP PECOS VALLEY, EDWARDS-TRINITY PLATEAU AQUIFER SUPPLIES IN PECOS CO.	F Edwards-Trinity-Plateau, Pecos Valley, and Trinity Aquifers Fresh/Brackish Pecos COUNTY	N/A	\$470	0	0	10,800	10,800	10,800	10,800

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Region F Alternative Water User Group (WUG) Water Management Strategies (WMS)

						WATER MANAGEMENT STRATEGY SUPPLY (ACRE-FEET PER YEAR)					
WUG ENTITY NAME	WMS SPONSOR REGION	WMS NAME	SOURCE NAME	UNIT COST 2020	UNIT COST 2070	2020	2030	2040	2050	2060	2070
San Angelo	F	SAN ANGELO - DEVELOPMENT OF EDWARDS TRINITY PLATEAU AQUIFER SUPPLIES IN SCHLEICHER CO	F Edwards-Trinity-Plateau, Pecos Valley, and Trinity Aquifers Schleicher COUNTY	N/A	\$209	0	0	4,500	4,500	4,500	4,500
San Angelo	F	WEST TEXAS WATER PARTNERSHIP (ALTERNATIVE)	F Colorado River MWD Lake/Reservoir System	N/A	\$342	0	5,000	5,000	5,000	5,000	5,000
Winters	F	REGIONAL SYSTEM FROM LAKE BROWNWOOD TO RUNNELS AND COKE COUNTIES	F Brownwood Lake/Reservoir	N/A	\$1005	0	0	729	729	729	729
Winters	F	REGIONAL SYSTEM FROM LAKE FT. PHANTOM HILL TO RUNNELS AND COKE COUNTIES	G Fort Phantom Hill Lake/Reservoir	N/A	\$1312	0	0	162	156	150	143
REGION F ALTERNATIVE WMS SUPPLY TOTAL						6,100	43,103	81,879	98,638	98,598	98,557

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Region F Alternative Projects Associated with Water Management Strategies

SPONSOR NAME	SPONSOR IS WWP?	ONLINE DECADE	PROJECT NAME	PROJECT DESCRIPTION	CAPITAL COST
Abilene	YES	2030	WEST TEXAS WATER PARTNERSHIP (ALTERNATIVE)	CONVEYANCE/TRANSMISSION PIPELINE; EVAPORATIVE POND; MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT; PUMP STATION; STORAGE TANK	\$96,867,000
Andrews	YES	2020	ANDREWS - DEVELOP OGALLALA AQUIFER SUPPLIES	CONVEYANCE/TRANSMISSION PIPELINE; MULTIPLE WELLS/WELL FIELD; PUMP STATION; STORAGE TANK	\$15,663,000
Andrews	YES	2020	CITY OF ANDREWS - DEVELOP EDWARDS TRINITY PLATEAU AQUIFER SUPPLIES	CONVEYANCE/TRANSMISSION PIPELINE; MULTIPLE WELLS/WELL FIELD; PUMP STATION	\$24,927,000
Ballinger	YES	2040	BALLINGER - REGIONAL SYSTEM FROM LAKE BROWNWOOD TO RUNNELS AND COKE COUNTIES	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK	\$55,414,000
Ballinger	YES	2040	BALLINGER - REGIONAL SYSTEM FROM LAKE FORT PHANTOM HILL TO RUNNELS AND COKE COUNTIES	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK	\$44,741,000
Bronte	YES	2030	BRONTE - DEVELOP GROUNDWATER FROM OTHER AQUIFER IN RUNNELS COUNTY	CONVEYANCE/TRANSMISSION PIPELINE; MULTIPLE WELLS/WELL FIELD; PUMP STATION	\$23,694,000
Bronte	YES	2040	BRONTE - REGIONAL SYSTEM FROM LAKE BROWNWOOD TO RUNNELS AND COKE COUNTIES	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK	\$11,536,000
Bronte	YES	2040	BRONTE - REGIONAL SYSTEM FROM LAKE FORT PHANTOM HILL TO RUNNELS AND COKE COUNTIES	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK	\$31,308,000
Bronte	YES	2030	DEVELOP OTHER AQUIFER SUPPLIES IN SOUTHWEST COKE COUNTY - BRONTE	CONVEYANCE/TRANSMISSION PIPELINE; MULTIPLE WELLS/WELL FIELD	\$23,694,000
Brown County WID 1	YES	2030	BCWID - DEVELOP ELLENBURGER-SAN SABA AQUIFER SUPPLIES	CONVEYANCE/TRANSMISSION PIPELINE; MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT; PUMP STATION	\$70,199,000
Colorado City	YES	2020	COLORADO CITY - DOCKUM WELL FIELD EXPANSION	CONVEYANCE/TRANSMISSION PIPELINE; MULTIPLE WELLS/WELL FIELD	\$3,744,000
Colorado River MWD	YES	2040	CRMWD - DEVELOP ADDITIONAL GROUNDWATER SUPPLIES FROM PECOS, REEVES, WARD AND WINKLER COUNTIES	CONVEYANCE/TRANSMISSION PIPELINE; MULTIPLE WELLS/WELL FIELD; PUMP STATION; STORAGE TANK; WATER RIGHT/PERMIT LEASE OR PURCHASE	\$147,558,000
County-Other, Andrews	NO	2020	ANDREWS COUNTY OTHER - DEVELOP EDWARDS TRINITY PLATEAU AQUIFER SUPPLIES	MULTIPLE WELLS/WELL FIELD	\$751,000
Great Plains Water System Inc	YES	2020	TEXLAND GREAT PLAINS - DEVELOP OGALLALA AQUIFER SUPPLIES FROM ANDREWS OR GAINES COUNTY	MULTIPLE WELLS/WELL FIELD	\$380,000
Greater Gardendale WSC	NO	2030	GREATER GARDENDALE WSC - PURCHASE WATER FROM MIDLAND COUNTY FWSD 1	CONVEYANCE/TRANSMISSION PIPELINE; NEW WATER TREATMENT PLANT; PUMP STATION; STORAGE TANK	\$2,946,000
Livestock, Andrews	NO	2020	ANDREWS COUNTY LIVESTOCK - DEVELOP EDWARDS TRINITY PLATEAU AQUIFER SUPPLIES	MULTIPLE WELLS/WELL FIELD	\$327,000
Manufacturing, Andrews	NO	2020	ANDREWS COUNTY MANUFACTURING - DEVELOP EDWARDS TRINITY PLATEAU AQUIFER SUPPLIES	MULTIPLE WELLS/WELL FIELD	\$591,000
Menard	NO	2030	MENARD - DEVELOP HICKORY AQUIFER SUPPLIES	MULTIPLE WELLS/WELL FIELD	\$3,287,000
Midland	YES	2030	WEST TEXAS WATER PARTNERSHIP (ALTERNATIVE)	CONVEYANCE/TRANSMISSION PIPELINE; EVAPORATIVE POND; MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT; PUMP STATION; STORAGE TANK	\$172,978,000
Odessa	YES	2040	ODESSA - DEVELOP CAPITAN REEF COMPLEX AQUIFER SUPPLIES IN WARD COUNTY	CONVEYANCE/TRANSMISSION PIPELINE; INJECTION WELL; MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT; STORAGE TANK	\$154,165,000
Odessa	YES	2040	ODESSA - DEVELOP EDWARDS-TRINITY AND CAPITAN REEF COMPLEX AQUIFER SUPPLIES IN PECOS COUNTY	CONVEYANCE/TRANSMISSION PIPELINE; INJECTION WELL; MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT; PUMP STATION; STORAGE TANK	\$826,808,000
Pecos	YES	2030	PECOS - POTABLE REUSE WITH AQUIFER STORAGE AND RECOVERY (ASR)	CONVEYANCE/TRANSMISSION PIPELINE; MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT; PUMP STATION; STORAGE TANK	\$34,456,000
Robert Lee	YES	2030	ROBERT LEE - DEVELOPMENT OF EDWARDS TRINITY PLATEAU AQUIFER SUPPLIES IN TOM GREEN CO	CONVEYANCE/TRANSMISSION PIPELINE; MULTIPLE WELLS/WELL FIELD; PUMP STATION	\$7,272,000
Robert Lee	YES	2040	ROBERT LEE - REGIONAL SYSTEM FROM LAKE BROWNWOOD TO RUNNELS AND COKE COUNTIES	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK	\$18,458,000
Robert Lee	YES	2040	ROBERT LEE - REGIONAL SYSTEM FROM LAKE FORT PHANTOM HILL TO RUNNELS AND COKE COUNTIES	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK	\$11,676,000
Robert Lee	YES	2030	ROBERT LEE - REPAIR AND EXPAND WATER TREATMENT PLANT	WATER TREATMENT PLANT EXPANSION	\$6,541,000
San Angelo	YES	2030	SAN ANGELO - DESALINATION OF BRACKISH GROUNDWATER SUPPLIES	INJECTION WELL; NEW WATER TREATMENT PLANT	\$70,709,000
San Angelo	YES	2040	SAN ANGELO - DEVELOP PECOS VALLEY, EDWARDS-TRINITY PLATEAU AQUIFER SUPPLIES IN PECOS CO	CONVEYANCE/TRANSMISSION PIPELINE; MULTIPLE WELLS/WELL FIELD; PUMP STATION; STORAGE TANK; WATER RIGHT/PERMIT LEASE OR PURCHASE	\$327,576,000

Region F Alternative Projects Associated with Water Management Strategies

SPONSOR NAME	SPONSOR IS WWP?	ONLINE DECADE	PROJECT NAME	PROJECT DESCRIPTION	CAPITAL COST
San Angelo	YES	2040	SAN ANGELO - DEVELOPMENT OF EDWARDS TRINITY PLATEAU AQUIFER SUPPLIES IN SCHLEICHER CO	CONVEYANCE/TRANSMISSION PIPELINE; MULTIPLE WELLS/WELL FIELD; PUMP STATION; STORAGE TANK	\$102,100,000
San Angelo	YES	2030	WEST TEXAS WATER PARTNERSHIP (ALTERNATIVE)	CONVEYANCE/TRANSMISSION PIPELINE; EVAPORATIVE POND; MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT; PUMP STATION; STORAGE TANK	\$57,659,000
Winters	YES	2040	WINTERS - REGIONAL SYSTEM FROM LAKE BROWNWOOD TO RUNNELS AND COKE COUNTIES	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK	\$30,035,000
Winters	YES	2040	WINTERS - REGIONAL SYSTEM FROM LAKE FORT PHANTOM HILL TO RUNNELS AND COKE COUNTIES	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK	\$15,603,000
REGION F ALTERNATIVE CAPITAL COST TOTAL					\$2,393,663,000

Region F Water User Group (WUG) Management Supply Factor

WUG supplies and projected demands are entered for each of a WUG's region-county-basin divisions. To calculate the Management Supply Factor for each WUG as a whole, not split by region-county-basin, the combined total of existing and future supply is divided by the total projected demand. If a WUG is split by more than one planning region, the whole WUG's management supply factor will show up in each of its planning region's management supply factor reports.

WUG NAME	WUG MANAGEMENT SUPPLY FACTOR					
	2020	2030	2040	2050	2060	2070
Airline Mobile Home Park Ltd	1.0	1.0	1.0	1.0	1.0	1.0
Andrews	1.0	0.9	0.9	0.8	0.8	0.7
Ballinger	3.4	3.4	3.4	3.5	3.5	3.5
Balmorhea	0.5	1.2	1.1	1.1	1.0	1.0
Bangs	1.0	1.0	1.0	1.0	1.0	1.0
Barstow	1.0	1.0	1.0	1.0	1.0	1.0
Big Lake	1.0	1.0	1.0	1.0	1.0	1.0
Big Spring	1.0	1.0	1.0	1.0	1.0	1.0
Brady	1.5	1.4	1.5	1.5	1.5	1.5
Bronte	0.2	1.7	1.7	1.7	1.7	1.7
Brookesmith SUD*	1.1	1.1	1.1	1.1	1.1	1.1
Brownwood	1.0	1.0	1.0	1.0	1.0	1.0
Coahoma	1.0	1.0	1.0	1.0	1.0	1.0
Coleman	1.7	1.7	1.7	1.7	1.6	1.6
Coleman County SUD*	1.0	1.0	1.0	1.0	1.0	1.0
Colorado City	1.0	0.9	0.9	0.9	0.9	0.9
Concho Rural Water	1.2	1.2	1.2	1.2	1.2	1.2
County-Other, Andrews	1.0	0.9	0.9	0.8	0.7	0.7
County-Other, Borden	1.0	1.0	1.0	1.0	1.0	1.0
County-Other, Brown	1.0	1.0	1.0	1.0	1.0	1.0
County-Other, Coke	1.0	1.0	1.0	1.0	1.0	1.0
County-Other, Coleman	1.0	1.0	1.0	1.0	1.0	1.0
County-Other, Concho	1.1	1.1	1.1	1.1	1.1	1.1
County-Other, Crane	1.0	1.0	1.0	1.0	1.0	1.0
County-Other, Crockett	1.0	1.0	1.0	1.0	1.0	1.0
County-Other, Ector	1.0	1.5	1.9	1.9	1.8	1.7
County-Other, Glasscock	1.0	1.0	1.0	1.0	1.0	1.0
County-Other, Howard	1.0	1.0	1.0	1.0	1.0	1.0
County-Other, Irion	1.0	1.0	1.0	1.0	1.0	1.0
County-Other, Kimble	1.0	1.0	1.0	1.0	1.0	1.0
County-Other, Loving	1.0	1.0	1.0	1.0	1.0	1.0
County-Other, Martin	1.0	1.0	1.0	1.0	1.0	1.0
County-Other, Mason	1.0	1.0	1.0	1.0	1.0	1.0
County-Other, McCulloch	1.0	1.0	1.0	1.0	1.0	1.0
County-Other, Menard	1.0	1.0	1.0	1.0	1.0	1.0
County-Other, Midland	1.0	1.8	1.8	1.7	1.6	1.6
County-Other, Mitchell	1.0	1.0	1.0	1.0	1.0	1.0
County-Other, Pecos	1.0	1.0	1.0	1.0	1.0	1.0
County-Other, Reagan	1.0	1.0	1.0	1.0	1.0	1.0
County-Other, Reeves	1.0	1.0	1.0	1.0	1.0	1.0
County-Other, Runnels	1.0	1.0	1.0	1.0	1.0	1.0
County-Other, Schleicher	1.0	1.0	1.0	1.0	1.0	1.0
County-Other, Scurry	1.0	1.0	1.0	1.0	1.0	1.0
County-Other, Sterling	1.0	1.0	1.0	1.0	1.0	1.0

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Region F Water User Group (WUG) Management Supply Factor

WUG NAME	WUG MANAGEMENT SUPPLY FACTOR					
	2020	2030	2040	2050	2060	2070
County-Other, Sutton	1.0	1.0	1.0	1.0	1.0	1.0
County-Other, Tom Green	1.4	1.4	1.3	1.3	1.3	1.2
County-Other, Upton	1.0	1.0	1.0	1.0	1.0	1.0
County-Other, Ward	1.0	1.0	1.0	1.0	1.0	1.0
County-Other, Winkler	1.0	1.0	1.0	1.0	1.0	1.0
Crane	1.0	1.0	1.0	1.0	1.0	1.0
Crockett County WCID 1	1.0	1.0	1.0	1.0	1.0	1.0
DADS Supported Living Center	1.0	1.0	1.0	1.0	1.0	1.0
Early	1.0	1.0	1.0	1.0	1.0	1.0
Ector County Utility District	1.0	1.0	1.0	1.0	1.0	1.0
Eden	1.1	1.1	1.1	1.1	1.1	1.1
Eldorado	1.0	1.0	1.0	1.0	1.0	1.0
Fort Stockton	1.0	1.0	1.0	1.0	1.0	1.0
Goodfellow Air Force Base	1.0	1.0	1.0	1.0	1.0	1.0
Grandfalls	1.0	1.0	1.0	2.0	1.0	1.0
Greater Gardendale WSC	1.0	1.8	1.8	1.6	1.5	1.4
Greenwood Water	1.0	1.0	1.0	1.0	1.0	1.0
Iraan	1.0	1.0	1.0	1.0	1.0	1.0
Irrigation, Andrews	1.0	0.8	0.7	0.7	0.6	0.6
Irrigation, Borden	1.0	1.1	1.0	1.0	1.0	1.0
Irrigation, Brown	0.8	0.9	0.9	0.9	0.9	0.9
Irrigation, Coke	1.0	1.1	1.1	1.1	1.1	1.1
Irrigation, Coleman	1.1	1.1	1.1	1.1	1.1	1.1
Irrigation, Concho	1.0	1.1	1.1	1.1	1.1	1.1
Irrigation, Crockett	1.1	1.1	1.2	1.2	1.2	1.2
Irrigation, Ector	2.4	2.5	2.5	2.5	2.5	2.5
Irrigation, Glasscock	1.0	1.0	1.0	1.0	1.0	1.0
Irrigation, Howard	1.0	1.1	1.1	1.1	1.1	1.1
Irrigation, Irion	0.8	0.8	0.9	0.9	0.9	0.9
Irrigation, Kimble	0.6	0.7	0.7	0.7	0.7	0.7
Irrigation, Martin	1.1	1.1	0.9	0.9	0.8	0.8
Irrigation, Mason	1.0	1.1	1.2	1.2	1.2	1.2
Irrigation, McCulloch	1.0	1.1	1.2	1.2	1.2	1.2
Irrigation, Menard	1.2	1.2	1.3	1.3	1.3	1.3
Irrigation, Midland	1.1	1.1	1.1	1.2	1.2	1.2
Irrigation, Mitchell	0.9	0.9	0.9	0.9	0.9	0.9
Irrigation, Pecos	1.1	1.1	1.2	1.2	1.2	1.2
Irrigation, Reagan	1.1	1.2	1.2	1.2	1.2	1.2
Irrigation, Reeves	1.1	1.1	1.2	1.2	1.2	1.2
Irrigation, Runnels	1.0	1.1	1.1	1.1	1.1	1.1
Irrigation, Schleicher	1.2	1.2	1.2	1.2	1.2	1.2
Irrigation, Scurry	0.2	0.2	0.3	0.3	0.3	0.3
Irrigation, Sterling	1.1	1.2	1.2	1.2	1.2	1.2
Irrigation, Sutton	1.1	1.1	1.2	1.2	1.2	1.2
Irrigation, Tom Green	1.1	1.2	1.2	1.2	1.2	1.2
Irrigation, Upton	1.0	1.1	1.1	1.1	1.1	1.1
Irrigation, Ward	2.0	2.1	2.1	2.2	2.2	2.2
Irrigation, Winkler	1.0	1.1	1.1	1.1	1.1	1.1

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Region F Water User Group (WUG) Management Supply Factor

WUG NAME	WUG MANAGEMENT SUPPLY FACTOR					
	2020	2030	2040	2050	2060	2070
Junction	0.4	1.0	1.0	1.0	1.0	1.0
Kermit	1.0	1.0	1.0	1.0	1.0	1.0
Livestock, Andrews	1.0	0.9	0.9	0.8	0.8	0.7
Livestock, Borden	1.0	1.0	1.0	1.0	1.0	1.0
Livestock, Brown	1.0	1.0	1.0	1.0	1.0	1.0
Livestock, Coke	1.0	1.0	1.0	1.0	1.0	1.0
Livestock, Coleman	1.1	1.1	1.1	1.1	1.1	1.1
Livestock, Concho	1.0	1.0	1.0	1.0	1.0	1.0
Livestock, Crane	1.0	1.0	1.0	1.0	1.0	1.0
Livestock, Crockett	1.0	1.0	1.0	1.0	1.0	1.0
Livestock, Ector	1.0	1.0	1.0	1.0	1.0	1.0
Livestock, Glasscock	1.0	1.0	1.0	1.0	1.0	1.0
Livestock, Howard	1.2	1.2	1.2	1.2	1.2	1.2
Livestock, Irion	1.0	1.0	1.0	1.0	1.0	1.0
Livestock, Kimble	1.0	1.0	1.0	1.0	1.0	1.0
Livestock, Loving	1.0	1.0	1.0	1.0	1.0	1.0
Livestock, Martin	1.0	1.0	1.0	1.0	1.0	1.0
Livestock, Mason	1.0	1.0	1.0	1.0	1.0	1.0
Livestock, McCulloch	1.0	1.0	1.0	1.0	1.0	1.0
Livestock, Menard	1.0	1.0	1.0	1.0	1.0	1.0
Livestock, Midland	1.0	1.0	1.0	1.0	1.0	1.0
Livestock, Mitchell	1.0	1.0	1.0	1.0	1.0	1.0
Livestock, Pecos	1.0	1.0	1.0	1.0	1.0	1.0
Livestock, Reagan	1.0	1.0	1.0	1.0	1.0	1.0
Livestock, Reeves	1.0	1.0	1.0	1.0	1.0	1.0
Livestock, Runnels	1.0	1.0	1.0	1.0	1.0	1.0
Livestock, Schleicher	1.0	1.0	1.0	1.0	1.0	1.0
Livestock, Scurry	1.0	1.0	1.0	1.0	1.0	1.0
Livestock, Sterling	1.0	1.0	1.0	1.0	1.0	1.0
Livestock, Sutton	1.0	1.0	1.0	1.0	1.0	1.0
Livestock, Tom Green	1.0	1.0	1.0	1.0	1.0	1.0
Livestock, Upton	1.0	1.0	1.0	1.0	1.0	1.0
Livestock, Ward	1.0	1.0	1.0	1.0	1.0	1.0
Livestock, Winkler	1.0	1.0	1.0	1.0	1.0	1.0
Loraine	1.0	1.0	1.0	1.0	1.0	1.0
Madera Valley WSC	1.0	1.0	1.0	1.0	1.0	1.0
Manufacturing, Andrews	0.9	0.9	0.9	0.8	0.7	0.7
Manufacturing, Brown	1.0	1.0	1.0	1.0	1.0	1.0
Manufacturing, Coleman	1.0	1.0	1.0	1.0	1.0	1.0
Manufacturing, Crane	1.0	1.0	1.0	1.0	1.0	1.0
Manufacturing, Crockett	1.0	1.0	1.0	1.0	1.0	1.0
Manufacturing, Ector	1.6	1.4	1.4	1.4	1.2	1.2
Manufacturing, Glasscock	1.0	1.0	1.0	1.0	1.0	1.0
Manufacturing, Howard	1.0	1.1	1.1	1.1	1.1	1.1
Manufacturing, Irion	1.0	1.0	1.0	1.0	1.0	1.0
Manufacturing, Kimble	1.2	1.0	1.0	1.0	1.0	1.0
Manufacturing, McCulloch	1.0	1.0	1.0	1.0	1.0	1.0
Manufacturing, Midland	1.0	1.0	1.0	1.0	1.0	1.0

*A single asterisk next to a WUG's name denotes that the WUG is split by more than one planning region.

Region F Water User Group (WUG) Management Supply Factor

WUG NAME	WUG MANAGEMENT SUPPLY FACTOR					
	2020	2030	2040	2050	2060	2070
Manufacturing, Mitchell	1.0	1.0	1.0	1.0	1.0	1.0
Manufacturing, Pecos	1.0	1.0	1.0	1.0	1.0	1.0
Manufacturing, Reeves	1.0	1.0	1.0	1.0	1.0	1.0
Manufacturing, Runnels	1.0	1.0	1.0	1.0	1.0	1.0
Manufacturing, Scurry	1.2	1.0	1.0	1.0	1.0	1.0
Manufacturing, Sutton	1.0	1.0	1.0	1.0	1.0	1.0
Manufacturing, Tom Green	1.0	1.0	1.0	1.0	1.0	1.0
Manufacturing, Upton	1.0	1.0	1.0	1.0	1.0	1.0
Manufacturing, Ward	1.0	1.0	1.0	1.0	1.0	1.0
Manufacturing, Winkler	1.0	1.0	1.0	1.0	1.0	1.0
Mason	1.0	1.0	1.0	1.0	1.0	1.0
McCamey	1.0	1.0	1.0	1.0	1.0	1.0
Menard	3.3	3.3	3.4	3.4	3.4	3.4
Mertzon	1.0	1.0	1.0	1.0	1.0	1.0
Midland	1.7	1.3	1.4	1.3	1.2	1.1
Miles	1.2	1.2	1.2	1.2	1.2	1.2
Millersview-Doole WSC	1.4	1.4	1.4	1.4	1.4	1.4
Mining, Andrews	0.8	0.8	1.0	1.2	1.6	2.0
Mining, Borden	1.0	1.0	1.0	1.0	1.0	1.0
Mining, Brown	1.0	1.0	1.0	1.0	1.0	1.0
Mining, Coke	1.0	1.0	1.0	1.0	1.0	1.0
Mining, Coleman	1.0	1.0	1.0	1.0	1.0	1.0
Mining, Concho	1.0	1.0	1.0	1.0	1.0	1.0
Mining, Crane	1.0	1.0	1.0	1.0	1.0	1.0
Mining, Crockett	1.2	1.2	1.6	2.2	4.9	10.8
Mining, Ector	1.2	1.1	1.1	1.3	1.6	1.9
Mining, Glasscock	1.0	1.0	1.0	1.0	1.0	1.0
Mining, Howard	1.0	1.0	1.0	1.0	1.0	1.0
Mining, Irion	0.7	0.7	0.9	1.1	1.1	1.2
Mining, Kimble	1.1	1.1	1.1	1.1	1.1	1.1
Mining, Loving	0.5	0.5	0.6	0.7	0.8	0.8
Mining, Martin	1.0	1.0	1.0	1.3	2.4	4.6
Mining, Mason	1.0	1.0	1.0	1.0	1.0	1.0
Mining, McCulloch	1.0	1.0	1.0	1.0	1.0	1.0
Mining, Menard	1.0	1.0	1.0	1.0	1.0	1.0
Mining, Midland	1.0	1.0	1.0	1.0	1.1	1.5
Mining, Mitchell	1.0	1.0	1.0	1.0	1.0	1.0
Mining, Pecos	1.0	1.0	1.0	1.2	1.5	2.0
Mining, Reagan	1.0	1.0	1.0	1.1	2.8	7.8
Mining, Reeves	1.1	1.1	1.1	1.3	1.7	2.1
Mining, Runnels	1.0	1.0	1.0	1.0	1.0	1.0
Mining, Schleicher	1.0	1.0	1.0	1.0	1.0	1.0
Mining, Scurry	0.2	0.2	0.2	0.2	0.2	0.2
Mining, Sterling	1.0	1.0	1.0	1.0	1.0	1.0
Mining, Sutton	1.0	1.0	1.0	1.0	1.0	1.0
Mining, Tom Green	1.0	1.0	1.0	1.0	1.0	1.0
Mining, Upton	1.1	1.1	1.2	1.5	2.1	3.0
Mining, Ward	1.0	1.0	1.0	1.0	1.0	1.0

*A single asterisk next to a WUG's name denotes that the WUG is split by more than one planning region.

Region F Water User Group (WUG) Management Supply Factor

WUG NAME	WUG MANAGEMENT SUPPLY FACTOR					
	2020	2030	2040	2050	2060	2070
Mining, Winkler	1.0	1.0	1.0	1.0	1.0	1.0
Mitchell County Utility	1.0	1.0	1.0	1.0	1.0	1.0
Monahans	1.6	1.5	1.5	1.5	1.4	1.4
North Runnels WSC*	1.0	1.0	1.0	1.0	1.0	1.0
Odessa	1.0	1.0	1.0	1.0	1.0	1.0
Pecos	1.2	5.5	5.3	5.2	5.1	5.0
Pecos County Fresh Water	1.0	1.0	1.0	1.0	1.0	1.0
Pecos County WCID 1	1.7	1.7	1.6	1.6	1.6	1.6
Rankin	1.0	1.0	1.0	1.0	1.0	1.0
Richland SUD*	1.5	1.5	1.5	1.5	1.5	1.5
Robert Lee	0.2	1.0	1.0	1.0	1.0	1.0
San Angelo	1.3	1.5	1.5	1.4	1.3	1.2
Santa Anna	1.0	1.0	1.0	1.0	1.0	1.0
Snyder	1.0	1.0	1.0	1.0	1.0	1.0
Sonora	1.1	1.1	1.1	1.1	1.1	1.1
Southwest Sandhills WSC	1.1	1.1	1.1	1.1	1.1	1.2
Stanton	1.1	1.0	1.0	1.0	1.0	1.0
Steam-Electric Power, Ector	1.0	1.0	1.0	1.0	1.0	1.0
Steam-Electric Power, Howard	1.0	1.0	1.0	1.0	1.0	1.0
Steam-Electric Power, Mitchell	0.1	0.1	0.1	0.1	0.1	0.1
Steam-Electric Power, Ward	0.1	0.1	0.1	0.1	0.1	0.1
Sterling City	1.0	1.0	1.0	1.0	1.0	1.0
Tom Green County FWSD 3	1.0	1.0	1.0	1.0	1.0	1.0
Wickett	5.7	5.4	5.3	5.2	5.1	5.0
Wink	1.0	1.0	1.0	1.0	1.0	1.0
Winters	1.0	1.0	1.1	1.1	1.1	1.1
Zephyr WSC*	1.1	1.1	1.1	1.1	1.1	1.1

*A single asterisk next to a WUG's name denotes that the WUG is split by more than one planning region.

Region F Water User Group (WUG) Strategy Supplies by Water Management Strategy (WMS) Type

WMS TYPE *	STRATEGY SUPPLY (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
Agricultural conservation	22,950	43,364	60,232	60,232	60,232	60,232
Aquifer storage and recovery	0	0	0	0	0	0
Conjunctive use	0	0	0	0	0	0
Direct potable reuse	0	925	925	925	925	925
Drought management	0	0	0	0	0	0
Groundwater desalination	0	20,209	20,070	19,930	19,791	19,651
Groundwater wells and other	16,455	41,494	49,524	50,016	50,288	50,520
Indirect reuse	7,941	7,936	7,926	7,917	7,908	7,901
Industrial conservation	5,494	5,527	4,482	3,042	1,897	1,483
Municipal conservation	2,859	3,272	3,507	3,752	3,982	4,258
New major reservoir	0	0	0	0	0	0
Other direct reuse	560	560	560	560	560	560
Other strategies	5,217	5,217	5,217	5,217	5,217	5,217
Other surface water	16,049	11,655	12,918	18,321	23,946	30,095
Seawater desalination	0	0	0	0	0	0
TOTAL STRATEGY SUPPLIES	77,525	140,159	165,361	169,912	174,746	180,842

* WMS type descriptions can be found on the interactive state water plan website at <http://texasstatewaterplan.org/> using the 'View data for' drop-down menus to navigate to a specific WMS Type page. The data used to create each WMS type value is available in Appendix 3 of the Guidelines for Regional Water Planning Data Deliverable (Exhibit D) document at http://www.twdb.texas.gov/waterplanning/rwp/planningdocu/2021/doc/current_docs/contract_docs/ExhibitD.pdf.

Region F Water User Group (WUG)
Recommended Water Management Strategy (WMS) Supplies by Source Type

SOURCE SUBTYPE*	STRATEGY SUPPLY (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
Aquifer Storage and Recovery	0	0	0	0	0	0
Groundwater	16,455	61,703	69,594	69,946	70,079	70,171
Groundwater TOTAL STRATEGY SUPPLIES	16,455	61,703	69,594	69,946	70,079	70,171
Direct Non-Potable Reuse	560	560	560	560	560	560
Direct Potable Reuse	0	925	925	925	925	925
Indirect Non-Potable Reuse	0	0	0	0	0	0
Indirect Potable Reuse	7,941	7,936	7,926	7,917	7,908	7,901
Reuse TOTAL STRATEGY SUPPLIES	8,501	9,421	9,411	9,402	9,393	9,386
Atmosphere	5,127	5,127	5,127	5,127	5,127	5,127
Gulf of Mexico	0	0	0	0	0	0
Livestock Local Supply	0	0	0	0	0	0
Other Local Supply	0	0	0	0	0	0
Rainwater Harvesting	0	0	0	0	0	0
Reservoir	4,572	4,418	4,389	4,358	4,344	4,410
Reservoir System	9,552	5,312	6,604	12,038	17,677	23,760
Run-of-River	2,015	2,015	2,015	2,015	2,015	2,015
Surface Water TOTAL STRATEGY SUPPLIES	21,266	16,872	18,135	23,538	29,163	35,312
REGION F TOTAL STRATEGY SUPPLIES	46,222	87,996	97,140	102,886	108,635	114,869

* A full list of source subtype definitions can be found in section 3 of the Guidelines for Regional Water Planning Data Deliverable (Exhibit D) document at http://www.twdb.texas.gov/waterplanning/rwp/planningdocu/2021/doc/current_docs/contract_docs/ExhibitD.pdf.

Region F Major Water Provider (MWP) Water Management Strategy (WMS) Summary

MWPs are entities of significance to a region's water supply as defined by the Regional Water Planning Group (RWPG) and may be a Water User Group (WUG) entity, Wholesale Water Provider (WWP) entity, or both (WUG/WWP). 'MWP Retail Customers' denotes recommended WMS supply used by the WUG. 'Transfers Related to Wholesale Customers' denotes a WWP or WUG/WWP selling or transferring recommended WMS supply to another entity. Supply associated with the MWP's wholesale transfers will only display if it is listed as the main seller in the State Water Planning database, even if multiple sellers are involved with the sale of water to WUGs. Unallocated water volumes represent MWP recommended WMS supply not currently allocated to a customer of the MWP. 'Total MWP Related WMS Supply' will display if the MWP's WMS is related to more than one WMS supply type (retail, wholesale, and/or unallocated). Associated WMS Projects are listed when the MWP is one of the project's sponsors. Report contains draft data and is subject to change.

Brown County WID 1 BRUSH CONTROL - BCWID						
DATA DESCRIPTION	WATER VOLUMES (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
RELATED UNALLOCATED WMS WATER VOLUMES	400	400	400	400	400	400

Brown County WID 1 SUBORDINATION - LAKE BROWNWOOD						
DATA DESCRIPTION	WATER VOLUMES (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
RELATED UNALLOCATED WMS WATER VOLUMES	5,440	5,466	5,492	5,518	5,544	5,570

Colorado River MWD SUBORDINATION - CRMWD SYSTEM						
DATA DESCRIPTION	WATER VOLUMES (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
TRANSFERS RELATED TO WHOLESALE CUSTOMERS	6,479	6,440	7,841	13,401	19,165	25,371
RELATED UNALLOCATED WMS WATER VOLUMES	19,729	19,892	18,514	12,983	7,225	952
TOTAL MWP RELATED WMS SUPPLY	26,208	26,332	26,355	26,384	26,390	26,323

Colorado River MWD SUBORDINATION - OH IVIE NON SYSTEM PORTION						
DATA DESCRIPTION	WATER VOLUMES (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
TRANSFERS RELATED TO WHOLESALE CUSTOMERS	1,082	1,077	1,173	1,263	1,376	1,562

Colorado River MWD WARD COUNTY WELL FIELD EXPANSION AND DEVELOPMENT OF WINKLER COUNTY WELL FIELD - CRMWD						
DATA DESCRIPTION	WATER VOLUMES (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
RELATED UNALLOCATED WMS WATER VOLUMES	0	0	0	22,400	22,400	22,400
WMS RELATED MWP SPONSORED PROJECTS	PROJECT DESCRIPTION					
CRMWD - WARD COUNTY WELL FIELD EXPANSION AND DEVELOPMENT OF WINKLER COUNTY WELL FIELD	CONVEYANCE/TRANSMISSION PIPELINE; MULTIPLE WELLS/WELL FIELD; PUMP STATION					

Colorado River MWD WARD COUNTY WELL FIELD WELL REPLACEMENT - CRMWD						
DATA DESCRIPTION	WATER VOLUMES (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
RELATED UNALLOCATED WMS WATER VOLUMES	0	755	2,650	6,296	8,361	10,343
WMS RELATED MWP SPONSORED PROJECTS	PROJECT DESCRIPTION					
CRMWD - WARD COUNTY WELL REPLACEMENT	MULTIPLE WELLS/WELL FIELD					

Colorado River MWD WEST TEXAS WATER PARTNERSHIP						
DATA DESCRIPTION	WATER VOLUMES (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
TRANSFERS RELATED TO WHOLESALE CUSTOMERS	0	8,400	8,400	8,400	8,400	8,400

Midland ADVANCED TREATMENT (RO) OF PAUL DAVIS WELL FIELD SUPPLIES - MIDLAND	
	WATER VOLUMES (ACRE-FEET PER YEAR)

Region F Major Water Provider (MWP) Water Management Strategy (WMS) Summary

DATA DESCRIPTION	2020	2030	2040	2050	2060	2070
MWP RETAIL CUSTOMERS	0	0	5,899	6,101	6,235	6,327
WMS RELATED MWP SPONSORED PROJECTS	PROJECT DESCRIPTION					
ADVANCED TREATMENT (RO) OF PAUL DAVIS WELL FIELD SUPPLIES - MIDLAND	NEW WATER TREATMENT PLANT; PUMP STATION; CONVEYANCE/TRANSMISSION PIPELINE					

Midland MUNICIPAL CONSERVATION - MIDLAND						
DATA DESCRIPTION	WATER VOLUMES (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
MWP RETAIL CUSTOMERS	631	755	816	882	944	1,012

Midland SUBORDINATION - CRMWD SYSTEM						
DATA DESCRIPTION	WATER VOLUMES (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
MWP RETAIL CUSTOMERS	1,844	0	0	0	0	0

Midland SUBORDINATION - OH IVIE NON SYSTEM PORTION						
DATA DESCRIPTION	WATER VOLUMES (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
MWP RETAIL CUSTOMERS	329	0	0	0	0	0

Midland WEST TEXAS WATER PARTNERSHIP						
DATA DESCRIPTION	WATER VOLUMES (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
MWP RETAIL CUSTOMERS	0	20,209	20,070	19,930	19,791	19,651
WMS RELATED MWP SPONSORED PROJECTS	PROJECT DESCRIPTION					
WEST TEXAS WATER PARTNERSHIP	CONVEYANCE/TRANSMISSION PIPELINE; EVAPORATIVE POND; MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT; PUMP STATION; STORAGE TANK					

Odessa MUNICIPAL CONSERVATION - ODESSA						
DATA DESCRIPTION	WATER VOLUMES (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
MWP RETAIL CUSTOMERS	568	680	752	829	905	990

Odessa SUBORDINATION - CRMWD SYSTEM						
DATA DESCRIPTION	WATER VOLUMES (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
MWP RETAIL CUSTOMERS	2,451	2	0	3,492	7,263	11,493
WMS RELATED MWP SPONSORED PROJECTS	PROJECT DESCRIPTION					
RO TREATMENT OF EXISTING SUPPLIES - ODESSA	NEW WATER TREATMENT PLANT; CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK					

San Angelo BRUSH CONTROL - SAN ANGELO						
DATA DESCRIPTION	WATER VOLUMES (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
MWP RETAIL CUSTOMERS	90	90	90	90	90	90

San Angelo CONCHO RIVER WATER PROJECT - SAN ANGELO						
DATA DESCRIPTION	WATER VOLUMES (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
MWP RETAIL CUSTOMERS	7,723	7,518	7,447	7,365	7,277	7,187

Region F Major Water Provider (MWP) Water Management Strategy (WMS) Summary

TRANSFERS RELATED TO WHOLESALE CUSTOMERS	677	882	953	1,035	1,123	1,213
TOTAL MWP RELATED WMS SUPPLY	8,400	8,400	8,400	8,400	8,400	8,400

WMS RELATED MWP SPONSORED PROJECTS	PROJECT DESCRIPTION					
CONCHO RIVER WATER PROJECT - SAN ANGELO	CONVEYANCE/TRANSMISSION PIPELINE; WATER TREATMENT PLANT EXPANSION; NEW SURFACE WATER INTAKE; PUMP STATION					

San Angelo HICKORY WELL FIELD EXPANSION IN MCCULLOCH COUNTY - SAN ANGELO						
DATA DESCRIPTION	WATER VOLUMES (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
MWP RETAIL CUSTOMERS	0	1,040	3,040	3,040	3,040	3,040
WMS RELATED MWP SPONSORED PROJECTS	PROJECT DESCRIPTION					
HICKORY WELL FIELD EXPANSION IN MCCULLOCH COUNTY - SAN ANGELO	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT; PUMP STATION					

San Angelo MUNICIPAL CONSERVATION - SAN ANGELO						
DATA DESCRIPTION	WATER VOLUMES (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
MWP RETAIL CUSTOMERS	459	532	558	592	629	668

San Angelo SUBORDINATION - OH IVIE NON SYSTEM PORTION						
DATA DESCRIPTION	WATER VOLUMES (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
MWP RETAIL CUSTOMERS	329	0	0	0	0	0

San Angelo SUBORDINATION - SAN ANGELO SYSTEM						
DATA DESCRIPTION	WATER VOLUMES (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
MWP RETAIL CUSTOMERS	1,547	1,460	1,375	1,288	1,203	1,117
TRANSFERS RELATED TO WHOLESALE CUSTOMERS	123	115	105	97	87	78
TOTAL MWP RELATED WMS SUPPLY	1,670	1,575	1,480	1,385	1,290	1,195

San Angelo WEST TEXAS WATER PARTNERSHIP						
DATA DESCRIPTION	WATER VOLUMES (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
MWP RETAIL CUSTOMERS	0	8,191	8,330	8,470	8,609	8,749
WMS RELATED MWP SPONSORED PROJECTS	PROJECT DESCRIPTION					
WEST TEXAS WATER PARTNERSHIP	CONVEYANCE/TRANSMISSION PIPELINE; EVAPORATIVE POND; MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT; PUMP STATION; STORAGE TANK					