

REGION F WATER PLANNING AREA TECHNICAL MEMORANDUM

Prepared for:

Texas Water Development Board
On behalf of the Region F Water Planning Group

November 2018

Prepared by:

FREESE AND NICHOLS, INC.
4055 International Plaza, Suite 200
Fort Worth, Texas 76109
817-735-7300



TABLE OF CONTENTS

| | |
|--|----|
| EXECUTIVE SUMMARY | 1 |
| 1.0 TWDB DB22 REPORTS..... | 1 |
| 1.1 Population and Water Demand Projections | 1 |
| 1.2 Source Water Availability | 3 |
| 1.2.2 Surface Water | 4 |
| 1.2.3 Groundwater..... | 5 |
| 1.3 Existing Water Supplies..... | 6 |
| 1.4 Identified Water Needs/Surpluses..... | 7 |
| 1.5 Source Water Balance..... | 8 |
| 1.6 Comparison to 2016 Regional Water Plan | 9 |
| 2.0 DETERMINING SOURCE AVAILABILITY | 9 |
| 2.1 Surface Water..... | 9 |
| 2.1.1 Hydrologic Models..... | 9 |
| 2.1.2 Versions and Dates of Hydrologic Models..... | 10 |
| 2.2 Groundwater..... | 11 |
| 2.2.1 Written Summary of Modeled Available Groundwater (MAGs) | 11 |
| 2.2.2 Documented Methodologies Utilized for Non-MAGs Availabilities..... | 13 |
| 2.2.3 Declaration that No GAM Models were Used | 13 |
| 3.0 POTENTIALLY FEASIBLE WATER MANAGEMENT STRATEGIES..... | 14 |
| 3.1 Process for Identifying Potentially Feasible WMS | 14 |
| 3.2 List of Potentially Feasible WMS..... | 14 |
| 4.0 SIMPLIFIED PLANNING OPTION | 14 |
| 5.0 PUBLIC COMMENT | 14 |



List of Figures

Figure 1-1: Total Water Demand Projections for Region F by Use Type and Decade in Acre-Feet per Year 3
Figure 1-2: Water Supply Needs by Use Type and Decade in Acre-Feet per Year 8

List of Tables

Table 1-1: Adopted Population Projections for Region F by County 2
Table 1-2: Overall Water Supply Source Availability in the Region F (Acre-Feet per Year)..... 4
Table 1-3. Overall Groundwater Supplies Available to Region F in Acre-Feet per Year..... 6
Table 1-5: Existing Water Supplies Available to Region F by Source in Acre-Feet per Year..... 7
Table 1-6: Source Water Balance in Region F by Source in Acre-Feet per Year 8
Table 2-1: Hydrologic Models Used in Determining Surface Water Availability 10
Table 2-2: Estimated Firm and Safe Yields for Major Reservoirs in Region F 11
Table 2-3: GAM Models Used in Determining Ground Water Availability 11
Table 2-4. Modeled Available Groundwater Supplies for Region F in Acre-Feet per Year 13

APPENDICES

- Appendix A – DB22 Reports
- Appendix B – Hydrologic Variance Request and Approval for Surface Water
- Appendix C – Methodology for Non-Relevant Areas and Other Aquifer Availabilities
- Appendix D – Methodology for Identifying Potentially Feasible WMSs
- Appendix E – Potentially Feasible WMSs

EXECUTIVE SUMMARY

This Technical Memorandum discusses population and water demand projections, water availability, existing water supplies, and identified potentially feasible water management strategies in Region F for the fifth cycle of regional water plan development. Included in this report are the required Texas Water Development Board (TWDB) Database 2022 (DB22) reports (nine) along with the additional information required for the Technical Memorandum submittal as set forth in Section 13.1.1 of TWDB's *Second Amended Exhibit C (General Guidelines for Fifth Cycle of the Regional Water Plan Development)* dated April 2018. A public meeting was held on November 15, 2018 to discuss the contents of this memorandum. Notice of the meeting was posted on November 1, 2018. Public comments were solicited at the public meeting and for two weeks following the meeting, closing on November 29, 2018.

1.0 TWDB DB22 REPORTS

All DB22 reports are located in Appendix A of this document. The nine required DB22 reports for this Technical Memorandum are summarized below. These include DB22 reports numbered 1 through 6, 9, and 10 (10a and 10b). DB22 reports 7 and 8 (concerning needs after implementation of conservation and direct reuse strategies) are not required for the Technical Memorandum but are required for the Initially Prepared Plan and Final Plan.

1.1 POPULATION AND WATER DEMAND PROJECTIONS

In early 2017, TWDB released their draft population and demand projections for all regions. Each Regional Planning Group was given the ability to make limited adjustments to the projections. The Region F Water Planning Group (RFWPG) recommended adjustments to the projections which were reviewed by TWDB staff prior to approval by the RFWPG. At the November 16, 2017 RFWPG Meeting, the RFWPG approved these updated population and demand projections. TWDB approved the projections in April 2018.

Appendix A contains three database reports related to population and demand. The reports are:

- **TWDB DB22 Report #1 - WUG Population Projections**
- **TWDB DB22 Report #2 - WUG Water Demand Projections**
- **TWDB DB22 Report #3 - WUG Category Summary**

TWDB DB22 Report #1 presents the projected populations for each municipal water user group. This includes water utilities or water systems that provide an average of more than 100 acre-feet per year to retail municipal customers, and rural/unincorporated areas of municipal water use, known as County Other. **TWDB DB22 Report #2** provides the projected water demands for each water user group. This includes both municipal and non-municipal demands. The data in Reports #1 and #2 are reported by entity, county, and river basin. **TWDB DB22 Report #3** summarizes the population, demands, supplies, and water needs by each water use type (municipal, manufacturing, mining, livestock, irrigation, and steam electric power).

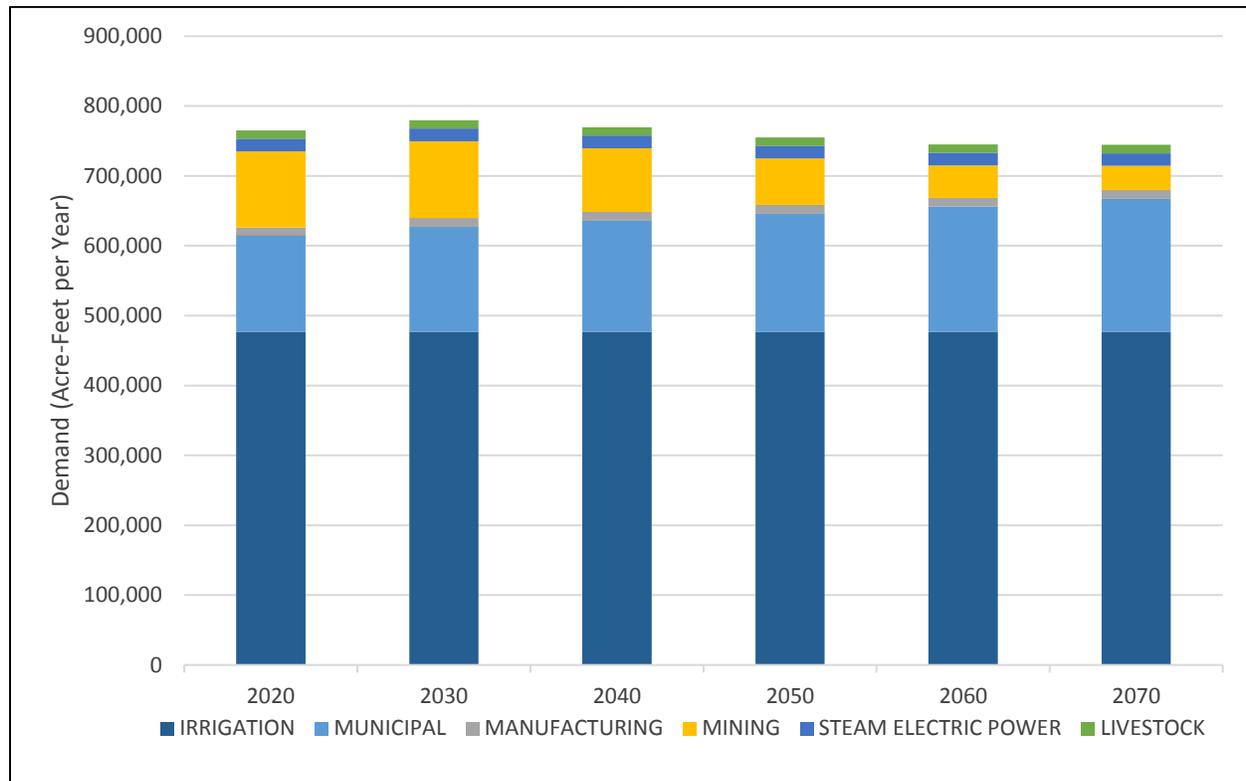
In addition to these summary tables, **Table 1-1** shows the population projections by county. The population for Region F is expected to increase from 715,773 to 1,039,502 over the planning horizon. Most of the increase in population and municipal demands occur in Ector, Midland, and Tom Green Counties.

Table 1-1: Adopted Population Projections for Region F by County

| County | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
|-----------------------|----------------|----------------|----------------|----------------|----------------|------------------|
| ANDREWS | 19,089 | 22,847 | 26,246 | 30,111 | 34,526 | 39,574 |
| BORDEN | 659 | 671 | 671 | 671 | 671 | 671 |
| BROWN | 39,761 | 40,717 | 40,717 | 40,717 | 40,717 | 40,717 |
| COKE | 3,320 | 3,320 | 3,320 | 3,320 | 3,320 | 3,320 |
| COLEMAN | 9,103 | 9,307 | 9,307 | 9,307 | 9,307 | 9,307 |
| CONCHO | 2,781 | 2,852 | 2,852 | 2,852 | 2,852 | 2,852 |
| CRANE | 5,056 | 5,713 | 6,241 | 6,737 | 7,151 | 7,501 |
| CROCKETT | 4,111 | 4,386 | 4,446 | 4,486 | 4,500 | 4,506 |
| ECTOR | 164,289 | 187,604 | 210,926 | 233,048 | 255,083 | 278,740 |
| GLASSCOCK | 1,341 | 1,429 | 1,429 | 1,429 | 1,429 | 1,429 |
| HOWARD | 37,310 | 38,936 | 39,603 | 39,603 | 39,603 | 39,603 |
| IRION | 1,684 | 1,702 | 1,702 | 1,702 | 1,702 | 1,702 |
| KIMBLE | 4,710 | 4,754 | 4,754 | 4,754 | 4,754 | 4,754 |
| LOVING | 82 | 82 | 82 | 82 | 82 | 82 |
| MARTIN | 5,433 | 5,986 | 6,382 | 6,735 | 7,000 | 7,205 |
| MASON | 4,012 | 4,012 | 4,012 | 4,012 | 4,012 | 4,012 |
| MCCULLOCH | 8,635 | 9,000 | 9,030 | 9,125 | 9,152 | 9,165 |
| MENARD | 2,242 | 2,242 | 2,242 | 2,242 | 2,242 | 2,242 |
| MIDLAND | 169,062 | 195,286 | 213,581 | 232,357 | 250,264 | 269,070 |
| MITCHELL | 10,531 | 11,329 | 11,566 | 11,706 | 11,826 | 11,930 |
| PECOS | 17,718 | 19,224 | 20,802 | 22,021 | 23,109 | 24,090 |
| REAGAN | 3,853 | 4,303 | 4,571 | 4,812 | 4,980 | 5,102 |
| REEVES | 15,125 | 16,193 | 17,057 | 17,650 | 18,106 | 18,443 |
| RUNNELS | 10,883 | 11,300 | 11,300 | 11,300 | 11,300 | 11,300 |
| SCHLEICHER | 3,811 | 4,106 | 4,259 | 4,350 | 4,406 | 4,440 |
| SCURRY | 19,911 | 22,497 | 24,249 | 26,236 | 28,246 | 30,322 |
| STERLING | 1,215 | 1,260 | 1,275 | 1,275 | 1,275 | 1,275 |
| SUTTON | 3,817 | 4,094 | 4,198 | 4,279 | 4,322 | 4,347 |
| TOM GREEN | 123,052 | 137,486 | 145,685 | 154,230 | 163,215 | 172,642 |
| UPTON | 3,690 | 3,990 | 4,128 | 4,272 | 4,360 | 4,421 |
| WARD | 11,454 | 12,144 | 12,634 | 13,029 | 13,329 | 13,557 |
| WINKLER | 8,033 | 8,817 | 9,459 | 10,147 | 10,702 | 11,181 |
| Region F Total | 715,773 | 797,589 | 858,726 | 918,597 | 977,543 | 1,039,502 |

Figure 1-1 is a graph of demands by use type and decade for Region F. Irrigation use accounts for over half of the demand in Region F. While population and municipal water demands are expected to increase over time, total water demands in Region F are expected to decrease slightly over time due to projected decreases in mining water use.

Figure 1-1: Total Water Demand Projections for Region F by Use Type and Decade in Acre-Feet per Year



1.2 SOURCE WATER AVAILABILITY

TWDB Report #4 – Source Water Availability presents the available water by source. Under the TWDB regional water planning guidelines, each region is to identify available water supplies within the region. The supplies available by source are based on the supply available during drought of record conditions. For surface water reservoirs, this is generally the equivalent of firm yield supply or the permitted amount, whichever is lower. Region F has chosen to use safe yields, as opposed to firm yields, as the available supply. The safe yield is less than the firm yield and leaves a one-year supply reserve in storage at the end of the drought of record. For run-of-river supplies, the reliable supply is the minimum modeled annual diversion over the historical record. Available groundwater supplies are defined by county and aquifer. Through the Joint Planning Process, Modeled Available Groundwater (MAG) values were developed by

the TWDB to define the long-term available groundwater supply for the major and minor aquifers within Region F. MAG values were not developed for aquifers or portions of aquifers that were declared “non-relevant” and other formations that are not modeled (such as “other aquifer” and Cross Timbers Aquifer).

The Region F has 1.3 million acre-feet per year of available water in 2020. This includes both developed and undeveloped supplies. Most of this supply is associated with groundwater sources. **Table 1-2** shows the overall water supply source availability in Region F. It should be noted that these supplies have not been limited by the current infrastructure that treats and delivers the water. The amount of supply available when considering infrastructure limitations is referred to as “Existing Water Supplies” and is discussed in Section 1.3 of this Technical Memorandum.

Table 1-2: Overall Water Supply Source Availability in the Region F (Acre-Feet per Year)

| | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
|---------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| RESERVOIRS | 103,860 | 102,620 | 101,380 | 100,140 | 98,900 | 97,660 |
| RUN-OF-RIVER | 26,457 | 26,457 | 26,457 | 26,457 | 26,457 | 26,457 |
| LOCAL SUPPLY ¹ | 5,272 | 5,272 | 5,272 | 5,272 | 5,272 | 5,272 |
| GROUNDWATER | 1,135,369 | 1,113,627 | 1,100,027 | 1,091,697 | 1,085,680 | 1,082,668 |
| REUSE | 32,773 | 32,773 | 32,773 | 32,773 | 32,773 | 32,773 |
| REGION F TOTAL | 1,303,731 | 1,280,749 | 1,265,909 | 1,256,339 | 1,249,082 | 1,244,830 |

1. Local supplies are surface water supplies that do not require a State water right permit. These supplies generally consist of stock tanks for livestock use.

1.2.2 Surface Water

In regional planning, surface water supplies from reservoirs and run-of-river rights are derived from the Water Availability Models (WAMs) developed by the Texas Commission on Environmental Quality (TCEQ). The TWDB requires the use of Full Authorization Run (Run 3) of the approved TCEQ WAM for regional water planning. Full Authorization assumes that all water rights will be fully met in priority order. Under this analysis, many water rights in Region F show no availability (due to senior water rights in the lower basin). Because this does not give an accurate assessment of water supplies based on the way the basin has historically been operation, Region F considers subordination of the Lower Colorado basin (Region K) to the Upper Colorado basin (Region F) a water management strategy. Water management strategies will be discussed as the next phase of regional planning and are not considered a current supply. Current surface water supplies (not constrained by infrastructure) in Region F are 135,696 acre-feet in 2020 and 129,496 acre-feet in 2070. The small decrease in these supplies over time is due to sedimentation in the region’s reservoirs.

Local supplies are surface water supplies that do not require a State water permit. These supplies are mainly stock tanks for livestock use and estimated based on historical use information from the TWDB.

1.2.3 Groundwater

Groundwater supplies in the RFWPA are primarily obtained from the following major and minor aquifers:

- Ogallala Aquifer
- Edwards-Trinity (Plateau) Aquifer
- Pecos Valley Aquifer
- Trinity Aquifer
- Capitan Reef Complex Aquifer
- Dockum Aquifer
- Edwards-Trinity (High Plains) Aquifer
- Ellenburger – San Saba Aquifer
- Hickory Aquifer
- Marble Falls Aquifer
- Rustler Aquifer
- Additional supplies in Region F are available from non-relevant portions of the major and minor aquifers, which also includes the Lipan, Igneous and Seymour Aquifers, and
- Locally undifferentiated formations, referred to as “Other Aquifer” including the newly designated Cross Timbers Aquifer.

As required by regional planning rules, MAG estimates provided by the TWDB were used to determine groundwater availability. For Region F, TWDB provided MAG estimates for the named aquifers listed above and some of the non-MAG availability estimates for non-relevant portions of the listed aquifers. A comparison of MAG totals from the previous and current planning cycles indicate a decrease of groundwater availability in all aquifers except Other Aquifer, due to the addition of the groundwater volume discharging to the surface from the San Andres Formation in Pecos County. In GMA-7, the three major aquifers have been combined since the last planning cycle. The Edwards-Trinity (Plateau), Pecos Valley, and Trinity Aquifers are lumped into one volume in the MAG estimate. The Ogallala and Edwards-Trinity (High Plains) are also combined (as they were in the previous planning cycle).

Region F includes parts of Groundwater Management Areas (GMAs) 2, 3, 7 and 8. The groundwater supplies available to Region F are summarized in **Table 1-3**. The total availability volume for Region F

represents estimates of existing supplies plus potentially recoverable groundwater supply volumes from areas that have not been developed. **Table 1-3** totals the groundwater supply availability estimates for MAGs, non-relevant aquifers and other aquifers.

Table 1-3. Overall Groundwater Supplies Available to Region F in Acre-Feet per Year

| Source | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
|---|------------------|------------------|------------------|------------------|------------------|------------------|
| OGALLALA AND EDWARDS-TRINITY (HIGH PLAINS) AQUIFER | 168,536 | 146,798 | 133,194 | 124,868 | 118,847 | 115,839 |
| EDWARDS-TRINITY (PLATEAU), PECOS VALLEY, AND TRINITY AQUIFERS (GMA-7) | 758,749 | 758,749 | 758,749 | 758,749 | 758,749 | 758,749 |
| TRINITY AQUIFER (GMA-8) | 1,450 | 1,446 | 1,450 | 1,446 | 1,450 | 1,446 |
| CAPITAN REEF COMPLEX AQUIFER | 27,552 | 27,552 | 27,552 | 27,552 | 27,552 | 27,552 |
| DOCKUM AQUIFER | 42,038 | 42,038 | 42,038 | 42,038 | 42,038 | 42,038 |
| ELLENBURGER – SAN SABA AQUIFER | 8,562 | 8,562 | 8,562 | 8,562 | 8,562 | 8,562 |
| HICKORY AQUIFER | 41,018 | 41,018 | 41,018 | 41,018 | 41,018 | 41,018 |
| MARBLE FALLS AQUIFER | 275 | 275 | 275 | 275 | 275 | 275 |
| RUSTLER AQUIFER | 11,130 | 11,130 | 11,130 | 11,130 | 11,130 | 11,130 |
| IGNEOUS AQUIFER | 380 | 380 | 380 | 380 | 380 | 380 |
| LIPAN AQUIFER | 46,539 | 46,539 | 46,539 | 46,539 | 46,539 | 46,539 |
| SEYMOUR AQUIFER | 10 | 10 | 10 | 10 | 10 | 10 |
| OTHER AQUIFER | 29,130 | 29,130 | 29,130 | 29,130 | 29,130 | 29,130 |
| RFWPA TOTAL | 1,135,369 | 1,113,627 | 1,100,027 | 1,091,697 | 1,085,680 | 1,082,668 |

1.3 EXISTING WATER SUPPLIES

Existing Water Supplies (sometimes referred to as “currently available supplies” or “connected supplies”) are supplies that are limited by water rights, groundwater permits, contracts, and facilities that are currently in place. The Existing Water Supplies are less than the overall supplies available to the region (Source Water Availability from Section 1.2) because the facilities needed to use some of the source water have not yet been developed. Common constraints limiting supplies include the hydrogeologic properties of the source aquifers, capacity of transmission systems, treatment plants, wells, and permit limits.

Table 1-5 shows the Existing Water Supplies in Region F by different source types.

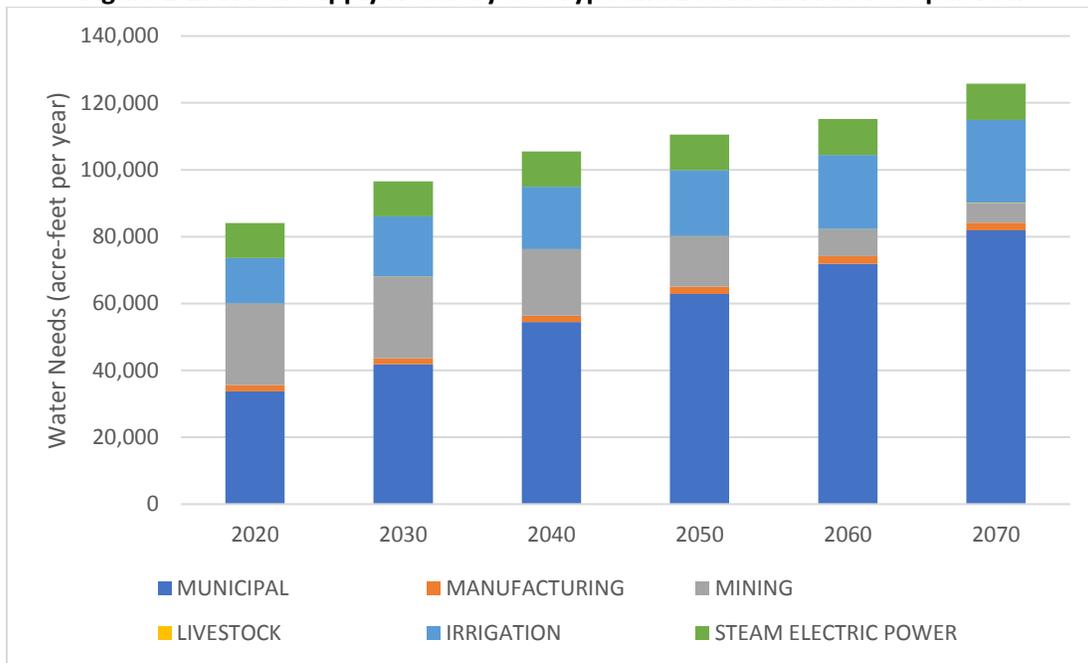
Table 1-4: Existing Water Supplies Available to Region F by Source in Acre-Feet per Year

| Source | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
|-----------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| RESERVOIRS | 63,447 | 62,622 | 61,621 | 60,681 | 59,799 | 58,931 |
| RUN-OF-RIVER | 26,387 | 26,387 | 26,387 | 26,387 | 26,387 | 26,387 |
| LOCAL SUPPLY | 5,272 | 5,272 | 5,272 | 5,272 | 5,272 | 5,272 |
| GROUNDWATER | 569,828 | 570,848 | 553,409 | 536,883 | 528,676 | 521,929 |
| REUSE | 23,916 | 23,914 | 23,915 | 23,915 | 23,916 | 23,916 |
| REGION F TOTAL | 688,850 | 689,043 | 670,604 | 653,138 | 644,050 | 636,435 |

1.4 IDENTIFIED WATER NEEDS/SURPLUSES

For each Water User Group, the Existing Water Supply was compared to the projected demand, resulting in either a need or a surplus for the WUG. The total water needs for Region F increase from about 84,000 acre-feet in 2020 to over 125,000 acre-feet in 2070. This is largely driven by anticipated population growth and the resulting municipal water demand. Mining needs shrink considerably over the planning cycle as demands are anticipated to decrease in later decades. Needs for other use types are relatively constant over the planning horizon. The water supply needs (no surpluses) that are unmet by existing water supplies are outlined below in Figure 1-2 by category of use. **TWDB DB22 Report #6 – WUG Identified Water Needs/Surpluses** is a compilation of this information for all WUGs. As previously discussed, a summary of the water needs by water use category is presented in **TWDB Report #3**.

Figure 1-2: Water Supply Needs by Use Type and Decade in Acre-Feet per Year



1.5 SOURCE WATER BALANCE

TWDB DB22 Report #9 – Source Water Balance shows the remaining balance of supply after all allocations to WUGs have been made. Table 1-5 shows sources available for new development in Region F, the majority (95%) of which is from groundwater. Some of this supply is quality impaired and may require blending, desalination, or other types of advanced treatment before use. Supplies from other sources could be sold or transferred from current users.

Table 1-5: Source Water Balance in Region F by Source in Acre-Feet per Year

| Source | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
|-----------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| RESERVOIRS | 31,148 | 30,955 | 30,763 | 30,570 | 30,378 | 30,185 |
| RUN-OF-RIVER | 70 | 70 | 70 | 70 | 70 | 70 |
| LOCAL SUPPLY | 0 | 0 | 0 | 0 | 0 | 0 |
| GROUNDWATER | 569,470 | 546,782 | 550,766 | 558,976 | 561,170 | 564,911 |
| REUSE | 552 | 552 | 552 | 552 | 552 | 552 |
| REGION F TOTAL | 601,240 | 578,359 | 582,151 | 590,168 | 592,170 | 595,718 |

1.6 COMPARISON TO 2016 REGIONAL WATER PLAN

Using its online database (DB22), TWDB has developed comparisons of information from this 2021 Regional Water Plan to information from the 2016 Regional Water Plan. The comparisons have been done for each Water User Group and for each supply source type by county, which are contained in **TWDB DB22 Report #10a – Comparison of Supply, Demands, and Needs to 2016 RWP** and **TWDB DB22 Report #10b – Comparison of Availability to 2016 RWP**. Both reports are included in **Appendix A**.

In Region F, total source availability (before allocation to users) increased from the 2016 to 2021 plan slightly. Groundwater availability went up about 7.5 percent due to changes in MAGs. Reuse availability increased as more users implemented reuse strategies (about 31 percent). Total surface water availability decreased very slightly (less than one percent) due to updates to the TCEQ WAM.

Projected demands in Region F decreased between 7 and 13 percent over the planning horizon from the 2016 to 2021 plan. This is mostly due to changes in demand projection methodology for non-municipal water use types. Existing supplies to water user groups increased slightly and overall water needs decreased significantly. This is largely due to updated MAG availabilities in Andrews, Martin, and McCulloch counties that reduced artificial MAG related shortages in the 2016 plan.

The availability from the Hickory Aquifer in McCulloch County increased by nearly 130 percent. The Ogallala Aquifer MAG volumes for Andrews, Borden, Howard, and Martin Counties all increased significantly because the DFCs in the Southern portion of GMA-2 are much less restrictive than what were initially adopted in 2010. However, in Glasscock County, the MAG decreased by about 15 percent (13,424 afy). Also, Ward County MAG volumes decreased ten percent primarily in the Dockum, Capitan Reef Complex and Rustler Aquifers.

2.0 DETERMINING SOURCE AVAILABILITY

2.1 SURFACE WATER

2.1.1 Hydrologic Models

Surface water supplies in Region F are obtained from mostly from the Colorado River Basin and the Pecos River Basin, which is a tributary of the Rio Grande River Basin. A small amount of Region lies in the Brazos River Basin but there is little to no surface water supplied to Region F from this basin. In accordance with TWDB rules, Region F used the Full Authorization (Run 3) of the TCEQ-approved WAMS to determine

surface water availability. In Region F, many reservoirs and run-of-river water rights show no availability under a strict priority analysis like TCEQ WAM Run 3. Subordination of downstream water rights in Region K is major a source of supply for Region F but is considered a strategy and is not included in existing supplies in Technical Memorandum. Region F requested hydrologic variances, mainly the use of safe (instead of firm) yield, to more accurately reflect some of the other current conditions and operations in the region. This request is detailed in **Appendix B**.

2.1.2 Versions and Dates of Hydrologic Models

The following information is required for the hydrologic models used to determine Source Water Availability. More discussion on Source Water Availability is included in **Section 1.2** of this report.

TCEQ-approved Water Availability Models (WAM) were used to determine the surface water availability for Region F. The version date and run type for each model is reported in **Table 2-1**. The respective input and output files are provided electronically with this Technical Memorandum.

Table 2-1: Hydrologic Models Used in Determining Surface Water Availability

| Hydrologic Model | Date Used | Run Used | Comments |
|------------------|------------------------|----------|---|
| Colorado WAM | August 2018 | Run 3 | Current and 2070 Firm and Safe Yield |
| Rio Grande WAM | February 2018 | Run 3 | Current and 2070 Firm and Safe Yield |
| Brazos WAM | See Region G Tech Memo | Run 3 | Used to determine run-of-river supplies |

Modifications to the surface water availability analysis are described in **Appendix B**, which contains the letter of request dated December 1, 2017 for hydrologic variances including modifications to the WAM. TWDB's response letter dated February 9, 2018 approving the requested modifications is also included in **Appendix B**. The analyses of surface water availability were carried out by Freese and Nichols, Inc. for the Colorado and Rio Grande River Basins, and by HDR, Inc. for the Brazos River Basin.

Table 2-2 presents the firm and safe yields for major reservoirs in Region F.

Table 2-2: Estimated Firm and Safe Yields for Major Reservoirs in Region F

| Scenario | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
|----------------------------|--------|--------|--------|--------|--------|--------|
| Lake Ivie | | | | | | |
| Firm Yield (ac-ft/yr) | 35,700 | 34,580 | 33,460 | 32,340 | 31,220 | 30,100 |
| Safe Yield (ac-ft/yr) | 30,350 | 29,320 | 28,290 | 27,260 | 26,230 | 25,200 |
| Lake Brownwood | | | | | | |
| Firm Yield (ac-ft/yr) | 24,000 | 23,820 | 23,640 | 23,460 | 23,280 | 23,100 |
| Safe Yield (ac-ft/yr) | 18,900 | 18,760 | 18,620 | 18,480 | 18,340 | 18,200 |
| Lake Balmorhea | | | | | | |
| Firm Yield (ac-ft/yr) | 18,800 | 18,800 | 18,800 | 18,800 | 18,800 | 18,800 |
| Red Bluff Reservoir | | | | | | |
| Firm Yield (ac-ft/yr) | 38,630 | 38,548 | 38,466 | 38,384 | 38,302 | 38,220 |
| Safe Yield (ac-ft/yr) | 30,050 | 29,980 | 29,910 | 29,840 | 29,770 | 29,700 |

2.2 GROUNDWATER

2.2.1 Written Summary of Modeled Available Groundwater (MAGs)

The MAGs for this planning cycle came from four GAM run documents as follows (see **Table 2-3**):

- GAM RUN 16-028, which summarizes the MAG volumes for all aquifers within GMA-2,
- GAM RUN 16-027, which summarizes the MAG volumes for all aquifers in GMA-3,
- GAM RUN 16-026 Version 2, which summarizes the MAG volumes for all aquifers in GMA-7, and
- GAM RUN 16-029, which summarizes the MAG volumes for all aquifers in GMA-8.

Table 2-3: GAM Models Used in Determining Ground Water Availability

| GAM Version | Date Results Published | Model Inputs/ Outputs Files Used | GMA |
|---------------------|------------------------|--|--------------------|
| GR 16-028 | May 12, 2017 | High Plains Aquifer System GAM; adopted DFCs | GMA-2 ¹ |
| GR 16-027 | March 14, 2018 | Eastern Arm of the Capitan Reef Complex Aquifer GAM, Alternative one-layer Edwards-Trinity (Plateau) and Pecos Valley model, High Plains Aquifer System GAM, Rustler Aquifer GAM; adopted DFCs | GMA-3 |
| GR 16-026 Version 2 | September 21, 2018 | Capitan Reef Complex Aquifer GAM, High Plains Aquifer System GAM, Llano Uplift Aquifer System GAM, Rustler Aquifer GAM, Alternative one-layer Edwards-Trinity (Plateau), Pecos Valley, and Trinity Aquifer model; adopted DFCs | GMA-7 |
| GR 16-029 | January 19, 2018 | North Trinity Woodbine GAM; adopted DFCs | GMA-8 ² |

1. Only Andrews, Borden, Howard, and Martin Counties within Region F are in GMA 2.
2. Brown is the only county within Region F in GMA 8.

GR 16-028 summarizes MAGs for the Ogallala, Edwards-Trinity (High Plains), and the Dockum Aquifers using the High Plains Aquifer System (HPAS) GAM. In GMA-2, the Ogallala and Edwards-Trinity (High Plains) availability volumes were lumped together and range from 114,157 acre-feet per year in 2020 to 71,177 acre-feet per year in 2070 for Andrews, Borden, Howard and Martin Counties only. The MAG estimate for the Dockum Aquifer for Andrews, Borden, Howard and Martin Counties is 3,817 acre-feet a year for the 50-year planning cycle.

GR 16-027 summarizes MAGs for the Capitan Reef Complex, Dockum, Edwards-Trinity (Plateau), Pecos Valley and Rustler Aquifers. The Edwards-Trinity (Plateau) and the Pecos Valley Aquifers MAGs total 420,541 acre-feet per year in GMA-3 for the 50-year planning cycle. The Capitan, Dockum, and Rustler Aquifer MAG estimates are 381, 17,378, and 2,590 acre-feet per year, respectively.

GR 16-026 Version 2 estimates MAGs for the portions of the Capitan Reef Complex, Dockum, Edwards-Trinity (Plateau), Ellenburger-San Saba, Hickory, Ogallala, Pecos Valley, Rustler and Trinity Aquifers that are located within GMA-7 and determined to be relevant for planning. Total MAG estimates for GMA-7 range between 590,469 in 202 and 589,114 acre-feet per year in 2070.

GR116-029 summarizes MAG volumes for all aquifers within GMA-8. However, the only availability volumes that apply to Region F are the Trinity Aquifer MAG estimates for Brown County, which range between 1,450 and 1,446 acre-feet per year. The units of the Trinity Aquifer that have DFCs in Brown County are the Antlers, Travis Peak, Hensell and Hosston Formations. However, only the MAG volumes for the Antlers and the Travis Peak are applicable.

Table 2-4 summarizes the MAG volumes from these GAM runs for each aquifer.

Table 2-4. Modeled Available Groundwater Supplies for Region F in Acre-Feet per Year

| Source | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
|---|----------------|----------------|----------------|----------------|----------------|----------------|
| OGALLALA AND EDWARDS-TRINITY (HIGH PLAINS) AQUIFER | 122,082 | 102,204 | 91,361 | 85,000 | 80,755 | 77,747 |
| EDWARDS-TRINITY (PLATEAU), PECOS VALLEY, AND TRINITY AQUIFERS (GMA-7) | 752,584 | 752,584 | 752,584 | 752,584 | 752,584 | 752,584 |
| TRINITY AQUIFER (GMA-8) | 1,450 | 1,446 | 1,450 | 1,446 | 1,450 | 1,446 |
| CAPITAN REEF COMPLEX AQUIFER | 26,545 | 26,545 | 26,545 | 26,545 | 26,545 | 26,545 |
| DOCKUM AQUIFER | 23,519 | 23,519 | 23,519 | 23,519 | 23,519 | 23,519 |
| ELLENBURGER – SAN SABA AQUIFER | 8,562 | 8,562 | 8,562 | 8,562 | 8,562 | 8,562 |
| HICKORY AQUIFER | 40,518 | 40,518 | 40,518 | 40,518 | 40,518 | 40,518 |
| MARBLE FALLS AQUIFER | 25 | 25 | 25 | 25 | 25 | 25 |
| RUSTLER AQUIFER | 9,630 | 9,630 | 9,630 | 9,630 | 9,630 | 9,630 |
| RFWPA TOTAL | 984,915 | 965,033 | 954,194 | 947,829 | 943,588 | 940,576 |

2.2.2 Documented Methodologies Utilized for Non-MAGs Availabilities

The total estimated groundwater availability for non-MAG aquifers or portions of aquifers is 149,298 acre-feet per year. The availability volumes and methodologies used to derive these estimates are tabulated in Appendix C.

2.2.3 Declaration that No GAM Models were Used

Non-MAG and partial-MAG estimates determined by the TWDB were adopted where they were available. For the county/ aquifer/ basin areas that did not already have TWDB-estimated volumes available, no GAM models were used to determine availability volumes. These estimates are detailed in Appendix C.

3.0 POTENTIALLY FEASIBLE WATER MANAGEMENT STRATEGIES

3.1 PROCESS FOR IDENTIFYING POTENTIALLY FEASIBLE WMS

The process for identifying potentially feasible water management strategies was presented at the March 15, 2018 RFWPG meeting in Big Spring. There were no public comments and the RFWPG approved the methodology. A description of the methodology is presented in **Appendix D**.

3.2 LIST OF POTENTIALLY FEASIBLE WMS

A list of potentially feasible water management strategies is included in **Appendix E**. These strategies are based on preliminary discussions with wholesale water providers, water user survey responses, and recommendations from the 2016 regional water plan. During analysis and development of the regional water plan, other strategies may be identified and included in this list. The types of strategies considered include:

- Conservation (municipal and irrigation)
- Purchase water from a provider (Voluntary Transfer)
- Develop additional groundwater
- Water treatment
- Direct potable reuse
- Indirect potable reuse
- Direct non-potable reuse
- Brush control
- Conjunctive Use (may be combined with other strategy types)
- Aquifer, storage and recovery (may be combined with other strategy types)

4.0 SIMPLIFIED PLANNING OPTION

The RFWPG will not pursue the simplified planning option offered by TWDB for the fifth cycle of regional water planning.

5.0 PUBLIC COMMENT

Per the TWDB Regional Planning Rules [31 TAC Section 357.21(c)(7)(C)], written comments from the public were accepted for the period of 14 days after the public meeting on November 15, 2018 when this Technical Memorandum was presented and considered for approval by the RFWPG. Public comments

were also accepted at this meeting. One public comment was received at the RFWPG Meeting. The comment was presented orally by Raymond Straub and expressed concern over large, named aquifers being declared non-relevant by the GMA resulting in no MAG values. This comment was specifically directed at the Ogallala aquifer in Midland county. Region F noted this comment. No additional comments were received.

APPENDIX A
TWDB DB22 Reports

TWDB DB22 Report #1 - WUG Population Projections

Region F Water User Group (WUG) Population

| | WUG POPULATION | | | | | |
|-------------------------------|----------------|---------------|---------------|---------------|---------------|---------------|
| | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| ANDREWS | 14,661 | 17,907 | 20,804 | 24,171 | 28,082 | 32,627 |
| COUNTY-OTHER | 4,415 | 4,925 | 5,426 | 5,923 | 6,425 | 6,927 |
| COLORADO BASIN TOTAL | 19,076 | 22,832 | 26,230 | 30,094 | 34,507 | 39,554 |
| COUNTY-OTHER | 13 | 15 | 16 | 17 | 19 | 20 |
| RIO GRANDE BASIN TOTAL | 13 | 15 | 16 | 17 | 19 | 20 |
| ANDREWS COUNTY TOTAL | 19,089 | 22,847 | 26,246 | 30,111 | 34,526 | 39,574 |
| COUNTY-OTHER | 40 | 41 | 41 | 41 | 41 | 41 |
| BRAZOS BASIN TOTAL | 40 | 41 | 41 | 41 | 41 | 41 |
| COUNTY-OTHER | 619 | 630 | 630 | 630 | 630 | 630 |
| COLORADO BASIN TOTAL | 619 | 630 | 630 | 630 | 630 | 630 |
| BORDEN COUNTY TOTAL | 659 | 671 | 671 | 671 | 671 | 671 |
| COUNTY-OTHER | 75 | 77 | 77 | 77 | 77 | 77 |
| BRAZOS BASIN TOTAL | 75 | 77 | 77 | 77 | 77 | 77 |
| BANGS | 2,506 | 2,566 | 2,566 | 2,566 | 2,566 | 2,566 |
| BROOKESMITH SUD | 8,047 | 8,240 | 8,241 | 8,240 | 8,240 | 8,241 |
| BROWNWOOD | 19,926 | 20,406 | 20,406 | 20,406 | 20,406 | 20,406 |
| COLEMAN COUNTY SUD | 195 | 199 | 199 | 199 | 199 | 199 |
| EARLY | 2,907 | 2,978 | 2,978 | 2,978 | 2,978 | 2,978 |
| ZEPHYR WSC | 4,173 | 4,274 | 4,274 | 4,274 | 4,274 | 4,274 |
| COUNTY-OTHER | 1,932 | 1,977 | 1,976 | 1,977 | 1,977 | 1,976 |
| COLORADO BASIN TOTAL | 39,686 | 40,640 | 40,640 | 40,640 | 40,640 | 40,640 |
| BROWN COUNTY TOTAL | 39,761 | 40,717 | 40,717 | 40,717 | 40,717 | 40,717 |
| BRONTE | 1,085 | 1,085 | 1,085 | 1,085 | 1,085 | 1,085 |
| ROBERT LEE | 1,050 | 1,050 | 1,050 | 1,050 | 1,050 | 1,050 |
| COUNTY-OTHER | 1,185 | 1,185 | 1,185 | 1,185 | 1,185 | 1,185 |
| COLORADO BASIN TOTAL | 3,320 | 3,320 | 3,320 | 3,320 | 3,320 | 3,320 |
| COKE COUNTY TOTAL | 3,320 | 3,320 | 3,320 | 3,320 | 3,320 | 3,320 |
| BROOKESMITH SUD | 41 | 42 | 42 | 42 | 42 | 42 |
| COLEMAN | 4,820 | 4,928 | 4,928 | 4,928 | 4,928 | 4,928 |
| COLEMAN COUNTY SUD | 2,927 | 2,998 | 2,998 | 2,998 | 2,998 | 2,998 |
| SANTA ANNA | 1,121 | 1,148 | 1,148 | 1,148 | 1,148 | 1,148 |
| COUNTY-OTHER | 194 | 191 | 191 | 191 | 191 | 191 |
| COLORADO BASIN TOTAL | 9,103 | 9,307 | 9,307 | 9,307 | 9,307 | 9,307 |
| COLEMAN COUNTY TOTAL | 9,103 | 9,307 | 9,307 | 9,307 | 9,307 | 9,307 |
| EDEN | 1,264 | 1,310 | 1,310 | 1,310 | 1,310 | 1,310 |
| MILLERSVIEW-DOOLE WSC | 650 | 661 | 661 | 661 | 661 | 661 |
| COUNTY-OTHER | 867 | 881 | 881 | 881 | 881 | 881 |
| COLORADO BASIN TOTAL | 2,781 | 2,852 | 2,852 | 2,852 | 2,852 | 2,852 |
| CONCHO COUNTY TOTAL | 2,781 | 2,852 | 2,852 | 2,852 | 2,852 | 2,852 |
| CRANE | 3,645 | 3,926 | 4,152 | 4,365 | 4,542 | 4,692 |

Region F Water User Group (WUG) Population

| | WUG POPULATION | | | | | |
|-------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| COUNTY-OTHER | 1,878 | 1,878 | 1,878 | 1,878 | 1,878 | 1,878 |
| COLORADO BASIN TOTAL | 4,012 | 4,012 | 4,012 | 4,012 | 4,012 | 4,012 |
| MASON COUNTY TOTAL | 4,012 | 4,012 | 4,012 | 4,012 | 4,012 | 4,012 |
| BRADY | 5,773 | 6,018 | 6,039 | 6,101 | 6,119 | 6,129 |
| MILLERSVIEW-DOOLE WSC | 1,025 | 1,068 | 1,072 | 1,083 | 1,087 | 1,087 |
| RICHLAND SUD | 999 | 1,041 | 1,045 | 1,056 | 1,058 | 1,060 |
| COUNTY-OTHER | 838 | 873 | 874 | 885 | 888 | 889 |
| COLORADO BASIN TOTAL | 8,635 | 9,000 | 9,030 | 9,125 | 9,152 | 9,165 |
| MCCULLOCH COUNTY TOTAL | 8,635 | 9,000 | 9,030 | 9,125 | 9,152 | 9,165 |
| MENARD | 1,492 | 1,492 | 1,492 | 1,492 | 1,492 | 1,492 |
| COUNTY-OTHER | 750 | 750 | 750 | 750 | 750 | 750 |
| COLORADO BASIN TOTAL | 2,242 | 2,242 | 2,242 | 2,242 | 2,242 | 2,242 |
| MENARD COUNTY TOTAL | 2,242 | 2,242 | 2,242 | 2,242 | 2,242 | 2,242 |
| AIRLINE MOBILE HOME PARK LTD | 2,221 | 2,407 | 2,660 | 2,917 | 3,169 | 3,417 |
| GREATER GARDENDALE WSC | 1,299 | 1,514 | 1,723 | 1,933 | 2,141 | 2,346 |
| GREENWOOD WATER | 993 | 1,075 | 1,189 | 1,303 | 1,416 | 1,527 |
| MIDLAND | 141,690 | 164,437 | 179,850 | 194,767 | 208,838 | 223,926 |
| ODESSA | 2,455 | 3,161 | 3,768 | 4,372 | 4,956 | 5,563 |
| COUNTY-OTHER | 20,404 | 22,692 | 24,391 | 27,065 | 29,744 | 32,291 |
| COLORADO BASIN TOTAL | 169,062 | 195,286 | 213,581 | 232,357 | 250,264 | 269,070 |
| MIDLAND COUNTY TOTAL | 169,062 | 195,286 | 213,581 | 232,357 | 250,264 | 269,070 |
| COLORADO CITY | 5,149 | 5,781 | 5,898 | 5,957 | 6,017 | 6,078 |
| LORAIN | 656 | 677 | 691 | 701 | 708 | 713 |
| MITCHELL COUNTY UTILITY | 1,596 | 1,717 | 1,753 | 1,774 | 1,792 | 1,807 |
| COUNTY-OTHER | 3,130 | 3,154 | 3,224 | 3,274 | 3,309 | 3,332 |
| COLORADO BASIN TOTAL | 10,531 | 11,329 | 11,566 | 11,706 | 11,826 | 11,930 |
| MITCHELL COUNTY TOTAL | 10,531 | 11,329 | 11,566 | 11,706 | 11,826 | 11,930 |
| FORT STOCKTON | 11,776 | 12,731 | 13,774 | 14,498 | 15,143 | 15,726 |
| IRAAN | 1,347 | 1,447 | 1,546 | 1,636 | 1,717 | 1,790 |
| PECOS COUNTY FRESH WATER | 748 | 804 | 858 | 908 | 954 | 994 |
| PECOS COUNTY WCID 1 | 3,019 | 3,244 | 3,465 | 3,668 | 3,849 | 4,012 |
| COUNTY-OTHER | 828 | 998 | 1,159 | 1,311 | 1,446 | 1,568 |
| RIO GRANDE BASIN TOTAL | 17,718 | 19,224 | 20,802 | 22,021 | 23,109 | 24,090 |
| PECOS COUNTY TOTAL | 17,718 | 19,224 | 20,802 | 22,021 | 23,109 | 24,090 |
| BIG LAKE | 3,357 | 3,749 | 3,982 | 4,193 | 4,339 | 4,445 |
| COUNTY-OTHER | 496 | 554 | 589 | 619 | 641 | 657 |
| COLORADO BASIN TOTAL | 3,853 | 4,303 | 4,571 | 4,812 | 4,980 | 5,102 |
| REAGAN COUNTY TOTAL | 3,853 | 4,303 | 4,571 | 4,812 | 4,980 | 5,102 |
| BALMORHEA | 517 | 553 | 583 | 603 | 619 | 630 |

Region F Water User Group (WUG) Population

| | WUG POPULATION | | | | | |
|--------------------------------|----------------|---------------|---------------|---------------|---------------|---------------|
| | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| MADERA VALLEY WSC | 1,541 | 1,650 | 1,738 | 1,798 | 1,845 | 1,879 |
| PECOS | 9,398 | 10,062 | 10,599 | 10,967 | 11,250 | 11,460 |
| COUNTY-OTHER | 3,669 | 3,928 | 4,137 | 4,282 | 4,392 | 4,474 |
| RIO GRANDE BASIN TOTAL | 15,125 | 16,193 | 17,057 | 17,650 | 18,106 | 18,443 |
| REEVES COUNTY TOTAL | 15,125 | 16,193 | 17,057 | 17,650 | 18,106 | 18,443 |
| BALLINGER | 3,864 | 3,966 | 3,966 | 3,966 | 3,966 | 3,966 |
| COLEMAN COUNTY SUD | 165 | 169 | 169 | 169 | 169 | 169 |
| MILES | 977 | 1,135 | 1,135 | 1,135 | 1,135 | 1,135 |
| MILLERSVIEW-DOOLE WSC | 749 | 749 | 749 | 749 | 749 | 749 |
| NORTH RUNNELS WSC | 1,594 | 1,656 | 1,672 | 1,684 | 1,693 | 1,700 |
| WINTERS | 2,763 | 2,835 | 2,835 | 2,835 | 2,835 | 2,835 |
| COUNTY-OTHER | 771 | 790 | 774 | 762 | 753 | 746 |
| COLORADO BASIN TOTAL | 10,883 | 11,300 | 11,300 | 11,300 | 11,300 | 11,300 |
| RUNNELS COUNTY TOTAL | 10,883 | 11,300 | 11,300 | 11,300 | 11,300 | 11,300 |
| ELDORADO | 2,104 | 2,104 | 2,104 | 2,104 | 2,104 | 2,104 |
| COUNTY-OTHER | 1,496 | 1,755 | 1,889 | 1,968 | 2,017 | 2,047 |
| COLORADO BASIN TOTAL | 3,600 | 3,859 | 3,993 | 4,072 | 4,121 | 4,151 |
| COUNTY-OTHER | 211 | 247 | 266 | 278 | 285 | 289 |
| RIO GRANDE BASIN TOTAL | 211 | 247 | 266 | 278 | 285 | 289 |
| SCHLEICHER COUNTY TOTAL | 3,811 | 4,106 | 4,259 | 4,350 | 4,406 | 4,440 |
| COUNTY-OTHER | 2,053 | 2,235 | 2,409 | 2,605 | 2,803 | 3,009 |
| BRAZOS BASIN TOTAL | 2,053 | 2,235 | 2,409 | 2,605 | 2,803 | 3,009 |
| SNYDER | 13,307 | 15,307 | 16,500 | 17,855 | 19,228 | 20,642 |
| COUNTY-OTHER | 4,551 | 4,955 | 5,340 | 5,776 | 6,215 | 6,671 |
| COLORADO BASIN TOTAL | 17,858 | 20,262 | 21,840 | 23,631 | 25,443 | 27,313 |
| SCURRY COUNTY TOTAL | 19,911 | 22,497 | 24,249 | 26,236 | 28,246 | 30,322 |
| STERLING CITY | 944 | 979 | 991 | 991 | 991 | 991 |
| COUNTY-OTHER | 271 | 281 | 284 | 284 | 284 | 284 |
| COLORADO BASIN TOTAL | 1,215 | 1,260 | 1,275 | 1,275 | 1,275 | 1,275 |
| STERLING COUNTY TOTAL | 1,215 | 1,260 | 1,275 | 1,275 | 1,275 | 1,275 |
| COUNTY-OTHER | 189 | 203 | 209 | 213 | 215 | 216 |
| COLORADO BASIN TOTAL | 189 | 203 | 209 | 213 | 215 | 216 |
| SONORA | 2,800 | 2,999 | 3,075 | 3,133 | 3,165 | 3,183 |
| COUNTY-OTHER | 828 | 892 | 914 | 933 | 942 | 948 |
| RIO GRANDE BASIN TOTAL | 3,628 | 3,891 | 3,989 | 4,066 | 4,107 | 4,131 |
| SUTTON COUNTY TOTAL | 3,817 | 4,094 | 4,198 | 4,279 | 4,322 | 4,347 |
| CONCHO RURAL WATER | 6,376 | 6,800 | 7,126 | 7,423 | 7,710 | 7,981 |
| DADS Supported Living Center | 253 | 253 | 253 | 253 | 253 | 253 |
| GOODFELLOW AIR FORCE BASE | 2,500 | 2,820 | 2,995 | 3,179 | 3,376 | 3,584 |
| MILLERSVIEW-DOOLE WSC | 1,825 | 1,931 | 2,019 | 2,097 | 2,170 | 2,237 |

Region F Water User Group (WUG) Population

| | WUG POPULATION | | | | | |
|----------------------------------|----------------|----------------|----------------|----------------|----------------|------------------|
| | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| SAN ANGELO | 103,243 | 116,437 | 123,653 | 131,315 | 139,451 | 148,090 |
| TOM GREEN COUNTY FWSD 3 | 1,132 | 1,265 | 1,340 | 1,419 | 1,502 | 1,589 |
| COUNTY-OTHER | 7,723 | 7,980 | 8,299 | 8,544 | 8,753 | 8,908 |
| COLORADO BASIN TOTAL | 123,052 | 137,486 | 145,685 | 154,230 | 163,215 | 172,642 |
| TOM GREEN COUNTY TOTAL | 123,052 | 137,486 | 145,685 | 154,230 | 163,215 | 172,642 |
| COUNTY-OTHER | 235 | 254 | 263 | 272 | 278 | 281 |
| COLORADO BASIN TOTAL | 235 | 254 | 263 | 272 | 278 | 281 |
| MCCAMEY | 2,215 | 2,395 | 2,478 | 2,564 | 2,617 | 2,654 |
| RANKIN | 856 | 926 | 958 | 991 | 1,012 | 1,026 |
| COUNTY-OTHER | 384 | 415 | 429 | 445 | 453 | 460 |
| RIO GRANDE BASIN TOTAL | 3,455 | 3,736 | 3,865 | 4,000 | 4,082 | 4,140 |
| UPTON COUNTY TOTAL | 3,690 | 3,990 | 4,128 | 4,272 | 4,360 | 4,421 |
| BARSTOW | 375 | 398 | 414 | 427 | 436 | 444 |
| GRANDFALLS | 427 | 453 | 471 | 486 | 497 | 505 |
| MONAHANS | 7,473 | 7,923 | 8,243 | 8,500 | 8,696 | 8,845 |
| SOUTHWEST SANDHILLS WSC | 1,937 | 2,053 | 2,136 | 2,203 | 2,253 | 2,292 |
| WICKETT | 512 | 543 | 565 | 582 | 596 | 606 |
| COUNTY-OTHER | 730 | 774 | 805 | 831 | 851 | 865 |
| RIO GRANDE BASIN TOTAL | 11,454 | 12,144 | 12,634 | 13,029 | 13,329 | 13,557 |
| WARD COUNTY TOTAL | 11,454 | 12,144 | 12,634 | 13,029 | 13,329 | 13,557 |
| KERMIT | 5,917 | 5,993 | 6,057 | 6,124 | 6,178 | 6,225 |
| WINK | 1,059 | 1,162 | 1,246 | 1,337 | 1,410 | 1,473 |
| COUNTY-OTHER | 1,057 | 1,662 | 2,156 | 2,686 | 3,114 | 3,483 |
| RIO GRANDE BASIN TOTAL | 8,033 | 8,817 | 9,459 | 10,147 | 10,702 | 11,181 |
| WINKLER COUNTY TOTAL | 8,033 | 8,817 | 9,459 | 10,147 | 10,702 | 11,181 |
| REGION F TOTAL POPULATION | 715,773 | 797,589 | 858,726 | 918,597 | 977,543 | 1,039,502 |

TWDB DB22 Report #2 - WUG Water Demand Projections

Region F Water User Group (WUG) Demand

| | WUG DEMAND (ACRE-FEET PER YEAR) | | | | | |
|-------------------------------|---------------------------------|---------------|---------------|---------------|---------------|---------------|
| | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| ANDREWS | 4,182 | 5,026 | 5,785 | 6,692 | 7,767 | 9,021 |
| COUNTY-OTHER | 535 | 575 | 616 | 664 | 718 | 774 |
| MANUFACTURING | 580 | 617 | 617 | 617 | 617 | 617 |
| MINING | 3,682 | 3,450 | 2,955 | 2,333 | 1,794 | 1,379 |
| LIVESTOCK | 178 | 178 | 178 | 178 | 178 | 178 |
| IRRIGATION | 19,550 | 19,550 | 19,550 | 19,550 | 19,550 | 19,550 |
| COLORADO BASIN TOTAL | 28,707 | 29,396 | 29,701 | 30,034 | 30,624 | 31,519 |
| COUNTY-OTHER | 2 | 2 | 2 | 2 | 2 | 2 |
| MINING | 277 | 260 | 222 | 176 | 135 | 104 |
| LIVESTOCK | 32 | 32 | 32 | 32 | 32 | 32 |
| IRRIGATION | 815 | 815 | 815 | 815 | 815 | 815 |
| RIO GRANDE BASIN TOTAL | 1,126 | 1,109 | 1,071 | 1,025 | 984 | 953 |
| ANDREWS COUNTY TOTAL | 29,833 | 30,505 | 30,772 | 31,059 | 31,608 | 32,472 |
| COUNTY-OTHER | 11 | 11 | 11 | 11 | 11 | 11 |
| LIVESTOCK | 12 | 12 | 12 | 12 | 12 | 12 |
| IRRIGATION | 826 | 826 | 826 | 826 | 826 | 826 |
| BRAZOS BASIN TOTAL | 849 | 849 | 849 | 849 | 849 | 849 |
| COUNTY-OTHER | 167 | 167 | 164 | 164 | 164 | 164 |
| MINING | 679 | 927 | 784 | 494 | 244 | 121 |
| LIVESTOCK | 163 | 163 | 163 | 163 | 163 | 163 |
| IRRIGATION | 2,123 | 2,123 | 2,123 | 2,123 | 2,123 | 2,123 |
| COLORADO BASIN TOTAL | 3,132 | 3,380 | 3,234 | 2,944 | 2,694 | 2,571 |
| BORDEN COUNTY TOTAL | 3,981 | 4,229 | 4,083 | 3,793 | 3,543 | 3,420 |
| COUNTY-OTHER | 6 | 6 | 6 | 6 | 6 | 6 |
| LIVESTOCK | 12 | 12 | 12 | 12 | 12 | 12 |
| IRRIGATION | 387 | 387 | 387 | 387 | 387 | 387 |
| BRAZOS BASIN TOTAL | 405 | 405 | 405 | 405 | 405 | 405 |
| BANGS | 310 | 305 | 296 | 291 | 290 | 290 |
| BROOKESMITH SUD | 1,199 | 1,195 | 1,170 | 1,156 | 1,153 | 1,153 |
| BROWNWOOD | 3,717 | 3,713 | 3,640 | 3,600 | 3,593 | 3,593 |
| COLEMAN COUNTY SUD | 24 | 24 | 23 | 23 | 23 | 23 |
| EARLY | 292 | 287 | 277 | 271 | 270 | 270 |
| ZEPHYR WSC | 343 | 339 | 330 | 325 | 324 | 324 |
| COUNTY-OTHER | 164 | 166 | 165 | 164 | 163 | 163 |
| MANUFACTURING | 548 | 651 | 651 | 651 | 651 | 651 |
| MINING | 943 | 948 | 951 | 952 | 948 | 944 |
| LIVESTOCK | 1,107 | 1,107 | 1,107 | 1,107 | 1,107 | 1,107 |
| IRRIGATION | 7,738 | 7,738 | 7,738 | 7,738 | 7,738 | 7,738 |
| COLORADO BASIN TOTAL | 16,385 | 16,473 | 16,348 | 16,278 | 16,260 | 16,256 |
| BROWN COUNTY TOTAL | 16,790 | 16,878 | 16,753 | 16,683 | 16,665 | 16,661 |
| BRONTE | 273 | 269 | 265 | 262 | 262 | 262 |
| ROBERT LEE | 295 | 290 | 286 | 286 | 285 | 285 |
| COUNTY-OTHER | 118 | 112 | 107 | 105 | 105 | 105 |
| MINING | 488 | 482 | 430 | 376 | 328 | 286 |
| LIVESTOCK | 306 | 306 | 306 | 306 | 306 | 306 |
| IRRIGATION | 689 | 689 | 689 | 689 | 689 | 689 |

Region F Water User Group (WUG) Demand

| | WUG DEMAND (ACRE-FEET PER YEAR) | | | | | |
|-------------------------------|---------------------------------|---------------|---------------|---------------|---------------|---------------|
| | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| LIVESTOCK | 169 | 169 | 169 | 169 | 169 | 169 |
| IRRIGATION | 678 | 678 | 678 | 678 | 678 | 678 |
| COLORADO BASIN TOTAL | 38,327 | 42,202 | 45,430 | 48,652 | 52,085 | 55,935 |
| COUNTY-OTHER | 114 | 116 | 140 | 154 | 169 | 185 |
| MINING | 652 | 714 | 635 | 519 | 419 | 355 |
| LIVESTOCK | 30 | 30 | 30 | 30 | 30 | 30 |
| IRRIGATION | 78 | 78 | 78 | 78 | 78 | 78 |
| RIO GRANDE BASIN TOTAL | 874 | 938 | 883 | 781 | 696 | 648 |
| ECTOR COUNTY TOTAL | 39,201 | 43,140 | 46,313 | 49,433 | 52,781 | 56,583 |
| COUNTY-OTHER | 161 | 165 | 160 | 160 | 159 | 159 |
| MANUFACTURING | 25 | 33 | 33 | 33 | 33 | 33 |
| MINING | 5,900 | 5,900 | 4,500 | 3,200 | 2,100 | 1,500 |
| LIVESTOCK | 147 | 147 | 147 | 147 | 147 | 147 |
| IRRIGATION | 51,254 | 51,254 | 51,254 | 51,254 | 51,254 | 51,254 |
| COLORADO BASIN TOTAL | 57,487 | 57,499 | 56,094 | 54,794 | 53,693 | 53,093 |
| GLASSCOCK COUNTY TOTAL | 57,487 | 57,499 | 56,094 | 54,794 | 53,693 | 53,093 |
| BIG SPRING | 6,227 | 6,368 | 6,379 | 6,327 | 6,316 | 6,316 |
| COAHOMA | 526 | 534 | 537 | 537 | 536 | 536 |
| COUNTY-OTHER | 652 | 650 | 646 | 644 | 642 | 642 |
| MANUFACTURING | 3,723 | 3,746 | 3,746 | 3,746 | 3,746 | 3,746 |
| MINING | 3,400 | 3,400 | 2,400 | 1,400 | 600 | 300 |
| STEAM ELECTRIC POWER | 427 | 427 | 427 | 427 | 427 | 427 |
| LIVESTOCK | 229 | 229 | 229 | 229 | 229 | 229 |
| IRRIGATION | 6,883 | 6,883 | 6,883 | 6,883 | 6,883 | 6,883 |
| COLORADO BASIN TOTAL | 22,067 | 22,237 | 21,247 | 20,193 | 19,379 | 19,079 |
| HOWARD COUNTY TOTAL | 22,067 | 22,237 | 21,247 | 20,193 | 19,379 | 19,079 |
| MERTZON | 101 | 99 | 96 | 94 | 94 | 94 |
| COUNTY-OTHER | 104 | 101 | 98 | 97 | 97 | 97 |
| MANUFACTURING | 6 | 7 | 7 | 7 | 7 | 7 |
| MINING | 4,600 | 4,600 | 3,300 | 2,000 | 1,000 | 500 |
| LIVESTOCK | 232 | 232 | 232 | 232 | 232 | 232 |
| IRRIGATION | 1,053 | 1,053 | 1,053 | 1,053 | 1,053 | 1,053 |
| COLORADO BASIN TOTAL | 6,096 | 6,092 | 4,786 | 3,483 | 2,483 | 1,983 |
| IRION COUNTY TOTAL | 6,096 | 6,092 | 4,786 | 3,483 | 2,483 | 1,983 |
| JUNCTION | 626 | 620 | 609 | 605 | 604 | 604 |
| COUNTY-OTHER | 254 | 248 | 241 | 237 | 236 | 236 |
| MANUFACTURING | 605 | 706 | 706 | 706 | 706 | 706 |
| MINING | 19 | 19 | 19 | 19 | 19 | 19 |
| LIVESTOCK | 320 | 320 | 320 | 320 | 320 | 320 |
| IRRIGATION | 2,657 | 2,657 | 2,657 | 2,657 | 2,657 | 2,657 |
| COLORADO BASIN TOTAL | 4,481 | 4,570 | 4,552 | 4,544 | 4,542 | 4,542 |
| KIMBLE COUNTY TOTAL | 4,481 | 4,570 | 4,552 | 4,544 | 4,542 | 4,542 |
| COUNTY-OTHER | 10 | 10 | 9 | 9 | 9 | 9 |
| MINING | 7,500 | 7,500 | 6,600 | 5,400 | 4,300 | 3,400 |
| LIVESTOCK | 32 | 32 | 32 | 32 | 32 | 32 |
| RIO GRANDE BASIN TOTAL | 7,542 | 7,542 | 6,641 | 5,441 | 4,341 | 3,441 |
| LOVING COUNTY TOTAL | 7,542 | 7,542 | 6,641 | 5,441 | 4,341 | 3,441 |

Region F Water User Group (WUG) Demand

| | WUG DEMAND (ACRE-FEET PER YEAR) | | | | | |
|-------------------------------|---------------------------------|---------------|---------------|---------------|---------------|---------------|
| | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| STANTON | 514 | 552 | 578 | 605 | 628 | 646 |
| COUNTY-OTHER | 358 | 380 | 394 | 410 | 426 | 438 |
| MINING | 7,200 | 7,200 | 5,400 | 3,500 | 1,900 | 1,000 |
| LIVESTOCK | 119 | 119 | 119 | 119 | 119 | 119 |
| IRRIGATION | 36,491 | 36,491 | 36,491 | 36,491 | 36,491 | 36,491 |
| COLORADO BASIN TOTAL | 44,682 | 44,742 | 42,982 | 41,125 | 39,564 | 38,694 |
| MARTIN COUNTY TOTAL | 44,682 | 44,742 | 42,982 | 41,125 | 39,564 | 38,694 |
| MASON | 700 | 690 | 682 | 677 | 676 | 676 |
| COUNTY-OTHER | 231 | 224 | 218 | 215 | 214 | 214 |
| MINING | 1,023 | 941 | 708 | 568 | 460 | 372 |
| LIVESTOCK | 714 | 714 | 714 | 714 | 714 | 714 |
| IRRIGATION | 4,966 | 4,966 | 4,966 | 4,966 | 4,966 | 4,966 |
| COLORADO BASIN TOTAL | 7,634 | 7,535 | 7,288 | 7,140 | 7,030 | 6,942 |
| MASON COUNTY TOTAL | 7,634 | 7,535 | 7,288 | 7,140 | 7,030 | 6,942 |
| BRADY | 1,391 | 1,420 | 1,402 | 1,410 | 1,412 | 1,414 |
| MILLERSVIEW-DOOLE WSC | 148 | 150 | 147 | 146 | 147 | 147 |
| RICHLAND SUD | 234 | 240 | 238 | 239 | 239 | 240 |
| COUNTY-OTHER | 132 | 135 | 134 | 135 | 135 | 135 |
| MANUFACTURING | 523 | 609 | 609 | 609 | 609 | 609 |
| MINING | 8,927 | 8,347 | 6,641 | 5,627 | 4,836 | 4,201 |
| LIVESTOCK | 651 | 651 | 651 | 651 | 651 | 651 |
| IRRIGATION | 2,324 | 2,324 | 2,324 | 2,324 | 2,324 | 2,324 |
| COLORADO BASIN TOTAL | 14,330 | 13,876 | 12,146 | 11,141 | 10,353 | 9,721 |
| MCCULLOCH COUNTY TOTAL | 14,330 | 13,876 | 12,146 | 11,141 | 10,353 | 9,721 |
| MENARD | 350 | 342 | 336 | 335 | 335 | 335 |
| COUNTY-OTHER | 92 | 89 | 86 | 85 | 84 | 84 |
| MINING | 1,086 | 1,071 | 952 | 827 | 717 | 622 |
| LIVESTOCK | 294 | 294 | 294 | 294 | 294 | 294 |
| IRRIGATION | 3,663 | 3,663 | 3,663 | 3,663 | 3,663 | 3,663 |
| COLORADO BASIN TOTAL | 5,485 | 5,459 | 5,331 | 5,204 | 5,093 | 4,998 |
| MENARD COUNTY TOTAL | 5,485 | 5,459 | 5,331 | 5,204 | 5,093 | 4,998 |
| AIRLINE MOBILE HOME PARK LTD | 228 | 236 | 252 | 273 | 295 | 318 |
| GREATER GARDENDALE WSC | 108 | 120 | 132 | 146 | 161 | 176 |
| GREENWOOD WATER | 211 | 224 | 244 | 265 | 288 | 310 |
| MIDLAND | 27,972 | 31,803 | 34,256 | 36,811 | 39,405 | 42,232 |
| ODESSA | 481 | 605 | 709 | 817 | 924 | 1,037 |
| COUNTY-OTHER | 3,253 | 3,506 | 3,689 | 4,050 | 4,441 | 4,819 |
| MANUFACTURING | 981 | 1,177 | 1,177 | 1,177 | 1,177 | 1,177 |
| MINING | 10,600 | 10,600 | 8,200 | 5,500 | 3,300 | 2,300 |
| LIVESTOCK | 243 | 243 | 243 | 243 | 243 | 243 |
| IRRIGATION | 18,107 | 18,107 | 18,107 | 18,107 | 18,107 | 18,107 |
| COLORADO BASIN TOTAL | 62,184 | 66,621 | 67,009 | 67,389 | 68,341 | 70,719 |
| MIDLAND COUNTY TOTAL | 62,184 | 66,621 | 67,009 | 67,389 | 68,341 | 70,719 |
| COLORADO CITY | 1,308 | 1,440 | 1,451 | 1,462 | 1,475 | 1,490 |
| LORAIN | 76 | 75 | 74 | 74 | 75 | 75 |
| MITCHELL COUNTY UTILITY | 210 | 217 | 215 | 217 | 218 | 220 |

Region F Water User Group (WUG) Demand

| | WUG DEMAND (ACRE-FEET PER YEAR) | | | | | |
|-------------------------------|---------------------------------|----------------|----------------|----------------|----------------|----------------|
| | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| COUNTY-OTHER | 545 | 538 | 541 | 544 | 549 | 553 |
| MANUFACTURING | 4 | 5 | 5 | 5 | 5 | 5 |
| MINING | 593 | 738 | 632 | 493 | 375 | 290 |
| STEAM ELECTRIC POWER | 10,326 | 10,326 | 10,326 | 10,326 | 10,326 | 10,326 |
| LIVESTOCK | 376 | 376 | 376 | 376 | 376 | 376 |
| IRRIGATION | 12,787 | 12,787 | 12,787 | 12,787 | 12,787 | 12,787 |
| COLORADO BASIN TOTAL | 26,225 | 26,502 | 26,407 | 26,284 | 26,186 | 26,122 |
| MITCHELL COUNTY TOTAL | 26,225 | 26,502 | 26,407 | 26,284 | 26,186 | 26,122 |
| FORT STOCKTON | 4,841 | 5,172 | 5,548 | 5,813 | 6,067 | 6,300 |
| IRAAN | 458 | 485 | 513 | 540 | 567 | 591 |
| PECOS COUNTY FRESH WATER | 201 | 212 | 223 | 235 | 247 | 257 |
| PECOS COUNTY WCID 1 | 384 | 398 | 415 | 433 | 453 | 472 |
| COUNTY-OTHER | 110 | 127 | 147 | 165 | 182 | 197 |
| MANUFACTURING | 413 | 433 | 433 | 433 | 433 | 433 |
| MINING | 7,700 | 7,700 | 7,700 | 6,200 | 4,800 | 3,700 |
| LIVESTOCK | 687 | 687 | 687 | 687 | 687 | 687 |
| IRRIGATION | 143,345 | 143,345 | 143,345 | 143,345 | 143,345 | 143,345 |
| RIO GRANDE BASIN TOTAL | 158,139 | 158,559 | 159,011 | 157,851 | 156,781 | 155,982 |
| PECOS COUNTY TOTAL | 158,139 | 158,559 | 159,011 | 157,851 | 156,781 | 155,982 |
| BIG LAKE | 730 | 795 | 834 | 877 | 906 | 928 |
| COUNTY-OTHER | 70 | 76 | 79 | 82 | 85 | 87 |
| MINING | 9,857 | 9,857 | 7,161 | 4,092 | 1,581 | 558 |
| LIVESTOCK | 175 | 175 | 175 | 175 | 175 | 175 |
| IRRIGATION | 22,031 | 22,031 | 22,031 | 22,031 | 22,031 | 22,031 |
| COLORADO BASIN TOTAL | 32,863 | 32,934 | 30,280 | 27,257 | 24,778 | 23,779 |
| MINING | 743 | 743 | 539 | 308 | 119 | 42 |
| LIVESTOCK | 8 | 8 | 8 | 8 | 8 | 8 |
| RIO GRANDE BASIN TOTAL | 751 | 751 | 547 | 316 | 127 | 50 |
| REAGAN COUNTY TOTAL | 33,614 | 33,685 | 30,827 | 27,573 | 24,905 | 23,829 |
| BALMORHEA | 203 | 214 | 225 | 233 | 238 | 243 |
| MADERA VALLEY WSC | 446 | 468 | 489 | 506 | 518 | 528 |
| PECOS | 2,916 | 3,065 | 3,215 | 3,322 | 3,405 | 3,468 |
| COUNTY-OTHER | 532 | 561 | 586 | 603 | 617 | 628 |
| MANUFACTURING | 286 | 305 | 305 | 305 | 305 | 305 |
| MINING | 12,600 | 12,600 | 12,100 | 9,900 | 7,800 | 6,200 |
| LIVESTOCK | 368 | 368 | 368 | 368 | 368 | 368 |
| IRRIGATION | 58,937 | 58,937 | 58,937 | 58,937 | 58,937 | 58,937 |
| RIO GRANDE BASIN TOTAL | 76,288 | 76,518 | 76,225 | 74,174 | 72,188 | 70,677 |
| REEVES COUNTY TOTAL | 76,288 | 76,518 | 76,225 | 74,174 | 72,188 | 70,677 |
| BALLINGER | 689 | 687 | 671 | 669 | 667 | 667 |
| COLEMAN COUNTY SUD | 20 | 20 | 20 | 19 | 19 | 19 |
| MILES | 113 | 126 | 122 | 121 | 120 | 120 |
| MILLERSVIEW-DOOLE WSC | 108 | 105 | 103 | 101 | 101 | 101 |
| NORTH RUNNELS WSC | 169 | 167 | 163 | 162 | 162 | 163 |
| WINTERS | 226 | 218 | 206 | 205 | 204 | 204 |
| COUNTY-OTHER | 76 | 74 | 69 | 68 | 67 | 66 |

Region F Water User Group (WUG) Demand

| | WUG DEMAND (ACRE-FEET PER YEAR) | | | | | |
|--------------------------------|---------------------------------|---------------|---------------|---------------|---------------|---------------|
| | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| MANUFACTURING | 10 | 11 | 11 | 11 | 11 | 11 |
| MINING | 272 | 269 | 240 | 210 | 184 | 161 |
| LIVESTOCK | 705 | 705 | 705 | 705 | 705 | 705 |
| IRRIGATION | 3,105 | 3,105 | 3,105 | 3,105 | 3,105 | 3,105 |
| COLORADO BASIN TOTAL | 5,493 | 5,487 | 5,415 | 5,376 | 5,345 | 5,322 |
| RUNNELS COUNTY TOTAL | 5,493 | 5,487 | 5,415 | 5,376 | 5,345 | 5,322 |
| ELDORADO | 662 | 652 | 643 | 639 | 638 | 638 |
| COUNTY-OTHER | 216 | 247 | 262 | 272 | 278 | 281 |
| MINING | 460 | 542 | 416 | 290 | 179 | 110 |
| LIVESTOCK | 293 | 293 | 293 | 293 | 293 | 293 |
| IRRIGATION | 1,160 | 1,160 | 1,160 | 1,160 | 1,160 | 1,160 |
| COLORADO BASIN TOTAL | 2,791 | 2,894 | 2,774 | 2,654 | 2,548 | 2,482 |
| COUNTY-OTHER | 31 | 35 | 37 | 38 | 39 | 40 |
| MINING | 161 | 190 | 146 | 102 | 62 | 38 |
| LIVESTOCK | 96 | 96 | 96 | 96 | 96 | 96 |
| IRRIGATION | 651 | 651 | 651 | 651 | 651 | 651 |
| RIO GRANDE BASIN TOTAL | 939 | 972 | 930 | 887 | 848 | 825 |
| SCHLEICHER COUNTY TOTAL | 3,730 | 3,866 | 3,704 | 3,541 | 3,396 | 3,307 |
| COUNTY-OTHER | 251 | 263 | 275 | 293 | 315 | 337 |
| MINING | 78 | 127 | 135 | 101 | 69 | 47 |
| LIVESTOCK | 92 | 92 | 92 | 92 | 92 | 92 |
| IRRIGATION | 1,698 | 1,698 | 1,698 | 1,698 | 1,698 | 1,698 |
| BRAZOS BASIN TOTAL | 2,119 | 2,180 | 2,200 | 2,184 | 2,174 | 2,174 |
| SNYDER | 1,980 | 2,201 | 2,320 | 2,499 | 2,686 | 2,882 |
| COUNTY-OTHER | 557 | 583 | 611 | 650 | 697 | 748 |
| MANUFACTURING | 156 | 186 | 186 | 186 | 186 | 186 |
| MINING | 202 | 329 | 348 | 262 | 177 | 120 |
| LIVESTOCK | 369 | 369 | 369 | 369 | 369 | 369 |
| IRRIGATION | 5,861 | 5,861 | 5,861 | 5,861 | 5,861 | 5,861 |
| COLORADO BASIN TOTAL | 9,125 | 9,529 | 9,695 | 9,827 | 9,976 | 10,166 |
| SCURRY COUNTY TOTAL | 11,244 | 11,709 | 11,895 | 12,011 | 12,150 | 12,340 |
| STERLING CITY | 276 | 281 | 281 | 280 | 280 | 280 |
| COUNTY-OTHER | 32 | 32 | 32 | 32 | 32 | 32 |
| MINING | 780 | 953 | 812 | 522 | 270 | 140 |
| LIVESTOCK | 234 | 234 | 234 | 234 | 234 | 234 |
| IRRIGATION | 899 | 899 | 899 | 899 | 899 | 899 |
| COLORADO BASIN TOTAL | 2,221 | 2,399 | 2,258 | 1,967 | 1,715 | 1,585 |
| STERLING COUNTY TOTAL | 2,221 | 2,399 | 2,258 | 1,967 | 1,715 | 1,585 |
| COUNTY-OTHER | 26 | 27 | 27 | 28 | 28 | 28 |
| MANUFACTURING | 3 | 3 | 3 | 3 | 3 | 3 |
| MINING | 89 | 144 | 152 | 114 | 78 | 53 |
| LIVESTOCK | 198 | 198 | 198 | 198 | 198 | 198 |
| IRRIGATION | 179 | 179 | 179 | 179 | 179 | 179 |
| COLORADO BASIN TOTAL | 495 | 551 | 559 | 522 | 486 | 461 |
| SONORA | 1,045 | 1,105 | 1,123 | 1,139 | 1,150 | 1,156 |

Region F Water User Group (WUG) Demand

| | WUG DEMAND (ACRE-FEET PER YEAR) | | | | | |
|-------------------------------|---------------------------------|----------------|----------------|----------------|----------------|----------------|
| | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| RIO GRANDE BASIN TOTAL | 10,954 | 11,091 | 10,983 | 10,687 | 10,368 | 10,131 |
| WARD COUNTY TOTAL | 10,954 | 11,091 | 10,983 | 10,687 | 10,368 | 10,131 |
| LIVESTOCK | 1 | 1 | 1 | 1 | 1 | 1 |
| COLORADO BASIN TOTAL | 1 | 1 | 1 | 1 | 1 | 1 |
| KERMIT | 1,811 | 1,803 | 1,799 | 1,816 | 1,830 | 1,844 |
| WINK | 358 | 387 | 412 | 441 | 465 | 486 |
| COUNTY-OTHER | 188 | 293 | 378 | 470 | 545 | 609 |
| MANUFACTURING | 64 | 76 | 76 | 76 | 76 | 76 |
| MINING | 787 | 1,169 | 991 | 756 | 531 | 373 |
| LIVESTOCK | 100 | 100 | 100 | 100 | 100 | 100 |
| IRRIGATION | 3,507 | 3,507 | 3,507 | 3,507 | 3,507 | 3,507 |
| RIO GRANDE BASIN TOTAL | 6,815 | 7,335 | 7,263 | 7,166 | 7,054 | 6,995 |
| WINKLER COUNTY TOTAL | 6,816 | 7,336 | 7,264 | 7,167 | 7,055 | 6,996 |
| REGION F TOTAL DEMAND | 765,150 | 779,505 | 769,525 | 755,112 | 744,947 | 744,366 |

TWDB DB22 Report #3 - WUG Category Summary

Region F Water User Group (WUG) Category Summary*

| MUNICIPAL | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
|--|-------------|-------------|-------------|-------------|-------------|-------------|
| POPULATION | 622,738 | 697,545 | 750,008 | 801,928 | 853,242 | 907,937 |
| DEMAND (acre-feet per year) | 125,009 | 136,751 | 144,752 | 153,550 | 162,965 | 173,202 |
| EXISTING SUPPLIES (acre-feet per year) | 93,926 | 96,011 | 91,437 | 91,895 | 92,394 | 92,844 |
| NEEDS (acre-feet per year) | 33,113 | 41,105 | 53,681 | 62,020 | 70,929 | 80,707 |

| COUNTY-OTHER | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
|--|-------------|-------------|-------------|-------------|-------------|-------------|
| POPULATION | 93,035 | 100,044 | 108,718 | 116,669 | 124,301 | 131,565 |
| DEMAND (acre-feet per year) | 12,718 | 13,309 | 14,205 | 15,152 | 16,133 | 17,088 |
| EXISTING SUPPLIES (acre-feet per year) | 12,229 | 12,808 | 13,585 | 14,384 | 15,209 | 16,005 |
| NEEDS (acre-feet per year) | 655 | 679 | 759 | 875 | 1,003 | 1,138 |

| MANUFACTURING | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
|--|-------------|-------------|-------------|-------------|-------------|-------------|
| DEMAND (acre-feet per year) | 11,591 | 12,607 | 12,607 | 12,607 | 12,607 | 12,607 |
| EXISTING SUPPLIES (acre-feet per year) | 9,936 | 10,968 | 10,752 | 10,519 | 10,378 | 10,271 |
| NEEDS (acre-feet per year) | 1,849 | 1,866 | 1,980 | 2,110 | 2,229 | 2,336 |

| MINING | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
|--|-------------|-------------|-------------|-------------|-------------|-------------|
| DEMAND (acre-feet per year) | 108,841 | 109,847 | 90,970 | 66,812 | 46,251 | 34,478 |
| EXISTING SUPPLIES (acre-feet per year) | 86,527 | 87,335 | 73,783 | 56,558 | 48,984 | 43,018 |
| NEEDS (acre-feet per year) | 24,419 | 24,428 | 19,839 | 15,124 | 8,037 | 5,924 |

| STEAM ELECTRIC POWER | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
|--|-------------|-------------|-------------|-------------|-------------|-------------|
| DEMAND (acre-feet per year) | 18,092 | 18,092 | 18,092 | 18,092 | 18,092 | 18,092 |
| EXISTING SUPPLIES (acre-feet per year) | 7,599 | 7,576 | 7,509 | 7,408 | 7,323 | 7,247 |
| NEEDS (acre-feet per year) | 10,493 | 10,516 | 10,583 | 10,684 | 10,769 | 10,845 |

| LIVESTOCK | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
|--|-------------|-------------|-------------|-------------|-------------|-------------|
| DEMAND (acre-feet per year) | 11,958 | 11,958 | 11,958 | 11,958 | 11,958 | 11,958 |
| EXISTING SUPPLIES (acre-feet per year) | 12,053 | 12,045 | 12,037 | 12,023 | 12,012 | 12,002 |
| NEEDS (acre-feet per year) | 9 | 17 | 25 | 39 | 50 | 60 |

| IRRIGATION | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
|--|-------------|-------------|-------------|-------------|-------------|-------------|
| DEMAND (acre-feet per year) | 476,941 | 476,941 | 476,941 | 476,941 | 476,941 | 476,941 |
| EXISTING SUPPLIES (acre-feet per year) | 466,580 | 462,300 | 461,501 | 460,351 | 457,750 | 455,048 |
| NEEDS (acre-feet per year) | 13,528 | 17,957 | 18,618 | 19,676 | 22,157 | 24,740 |

*WUG supplies and projected demands are entered for each of a WUG’s region-county-basin divisions. The needs shown in the WUG Category Summary report are calculated by first deducting the WUG split’s projected demand from its total existing water supply volume. If the WUG split has a greater existing 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 needs in the decade are included with the Needs totals.

TWDB Report #4 – Source Water Availability

Region F Source Availability

| GROUNDWATER SOURCE TYPE | | | | SOURCE AVAILABILITY (ACRE-FEET PER YEAR) | | | | | |
|---------------------------------|-----------|------------|--------------------|--|--------|--------|--------|--------|--------|
| SOURCE NAME | COUNTY | BASIN | SALINITY * | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| CAPITAN REEF COMPLEX AQUIFER | PECOS | RIO GRANDE | FRESH/ BRACKISH | 26,168 | 26,168 | 26,168 | 26,168 | 26,168 | 26,168 |
| CAPITAN REEF COMPLEX AQUIFER | REEVES | RIO GRANDE | FRESH | 1,007 | 1,007 | 1,007 | 1,007 | 1,007 | 1,007 |
| CAPITAN REEF COMPLEX AQUIFER | WARD | RIO GRANDE | FRESH/ BRACKISH | 103 | 103 | 103 | 103 | 103 | 103 |
| CAPITAN REEF COMPLEX AQUIFER | WINKLER | RIO GRANDE | FRESH | 274 | 274 | 274 | 274 | 274 | 274 |
| CROSS TIMBERS AQUIFER | BROWN | COLORADO | FRESH | 993 | 993 | 993 | 993 | 993 | 993 |
| CROSS TIMBERS AQUIFER | COLEMAN | COLORADO | FRESH | 108 | 108 | 108 | 108 | 108 | 108 |
| CROSS TIMBERS AQUIFER | CONCHO | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| CROSS TIMBERS AQUIFER | MCCULLOCH | COLORADO | FRESH | 103 | 103 | 103 | 103 | 103 | 103 |
| CROSS TIMBERS AQUIFER | RUNNELS | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| DOCKUM AQUIFER | ANDREWS | COLORADO | FRESH | 1,319 | 1,319 | 1,319 | 1,319 | 1,319 | 1,319 |
| DOCKUM AQUIFER | ANDREWS | RIO GRANDE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| DOCKUM AQUIFER | BORDEN | BRAZOS | FRESH | 284 | 284 | 284 | 284 | 284 | 284 |
| DOCKUM AQUIFER | BORDEN | COLORADO | FRESH | 617 | 617 | 617 | 617 | 617 | 617 |
| DOCKUM AQUIFER | COKE | COLORADO | FRESH/ BRACKISH | 100 | 100 | 100 | 100 | 100 | 100 |
| DOCKUM AQUIFER | CRANE | RIO GRANDE | FRESH | 94 | 94 | 94 | 94 | 94 | 94 |
| DOCKUM AQUIFER | CROCKETT | COLORADO | FRESH | 2 | 2 | 2 | 2 | 2 | 2 |
| DOCKUM AQUIFER | CROCKETT | RIO GRANDE | FRESH | 2 | 2 | 2 | 2 | 2 | 2 |
| DOCKUM AQUIFER | ECTOR | COLORADO | FRESH | 13 | 13 | 13 | 13 | 13 | 13 |
| DOCKUM AQUIFER | ECTOR | RIO GRANDE | FRESH | 515 | 515 | 515 | 515 | 515 | 515 |
| DOCKUM AQUIFER | GLASSCOCK | COLORADO | FRESH | 900 | 900 | 900 | 900 | 900 | 900 |
| DOCKUM AQUIFER | HOWARD | COLORADO | FRESH | 1,589 | 1,589 | 1,589 | 1,589 | 1,589 | 1,589 |
| DOCKUM AQUIFER | IRION | COLORADO | FRESH | 150 | 150 | 150 | 150 | 150 | 150 |
| DOCKUM AQUIFER | LOVING | RIO GRANDE | FRESH | 453 | 453 | 453 | 453 | 453 | 453 |
| DOCKUM AQUIFER | MARTIN | COLORADO | FRESH | 8 | 8 | 8 | 8 | 8 | 8 |
| DOCKUM AQUIFER | MIDLAND | COLORADO | FRESH/ BRACKISH | 400 | 400 | 400 | 400 | 400 | 400 |
| DOCKUM AQUIFER | MITCHELL | COLORADO | FRESH | 14,018 | 14,018 | 14,018 | 14,018 | 14,018 | 14,018 |
| DOCKUM AQUIFER | PECOS | RIO GRANDE | FRESH | 8,164 | 8,164 | 8,164 | 8,164 | 8,164 | 8,164 |
| DOCKUM AQUIFER | REAGAN | COLORADO | FRESH | 302 | 302 | 302 | 302 | 302 | 302 |
| DOCKUM AQUIFER | REAGAN | RIO GRANDE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| DOCKUM AQUIFER | REEVES | RIO GRANDE | FRESH | 2,539 | 2,539 | 2,539 | 2,539 | 2,539 | 2,539 |
| DOCKUM AQUIFER | SCURRY | BRAZOS | FRESH | 306 | 306 | 306 | 306 | 306 | 306 |
| DOCKUM AQUIFER | SCURRY | COLORADO | FRESH | 903 | 903 | 903 | 903 | 903 | 903 |
| DOCKUM AQUIFER | STERLING | COLORADO | FRESH | 10 | 10 | 10 | 10 | 10 | 10 |
| DOCKUM AQUIFER | TOM GREEN | COLORADO | FRESH/ BRACKISH | 200 | 200 | 200 | 200 | 200 | 200 |
| DOCKUM AQUIFER | UPTON | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| DOCKUM AQUIFER | UPTON | RIO GRANDE | FRESH | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 |
| DOCKUM AQUIFER | WARD | RIO GRANDE | FRESH | 2,150 | 2,150 | 2,150 | 2,150 | 2,150 | 2,150 |
| DOCKUM AQUIFER | WINKLER | COLORADO | FRESH | 13 | 13 | 13 | 13 | 13 | 13 |
| DOCKUM AQUIFER | WINKLER | RIO GRANDE | FRESH | 5,987 | 5,987 | 5,987 | 5,987 | 5,987 | 5,987 |
| EDWARDS-TRINITY-PLATEAU AQUIFER | ANDREWS | COLORADO | FRESH | 1,198 | 1,198 | 1,198 | 1,198 | 1,198 | 1,198 |
| EDWARDS-TRINITY-PLATEAU AQUIFER | HOWARD | COLORADO | FRESH | 672 | 672 | 672 | 672 | 672 | 672 |

*Salinity field indicates whether the source availability is considered 'fresh' (less than 1,000 mg/L), 'brackish' (1,000 to 10,000 mg/L), 'saline' (10,001 mg/L to 34,999 mg/L), or 'seawater' (35,000 mg/L or greater). Sources can also be labeled as 'fresh/brackish' or 'brackish/saline', if a combination of the salinity types is appropriate.

Region F Source Availability

| GROUNDWATER SOURCE TYPE | | | | SOURCE AVAILABILITY (ACRE-FEET PER YEAR) | | | | | |
|--|------------|------------|--------------------|--|---------|---------|---------|---------|---------|
| SOURCE NAME | COUNTY | BASIN | SALINITY * | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| EDWARDS-TRINITY-PLATEAU AQUIFER | MARTIN | COLORADO | FRESH | 242 | 242 | 242 | 242 | 242 | 242 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | COKE | COLORADO | FRESH | 997 | 997 | 997 | 997 | 997 | 997 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | CONCHO | COLORADO | FRESH | 459 | 459 | 459 | 459 | 459 | 459 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | CROCKETT | COLORADO | FRESH | 20 | 20 | 20 | 20 | 20 | 20 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | CROCKETT | RIO GRANDE | FRESH | 5,427 | 5,427 | 5,427 | 5,427 | 5,427 | 5,427 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | ECTOR | COLORADO | FRESH | 4,925 | 4,925 | 4,925 | 4,925 | 4,925 | 4,925 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | ECTOR | RIO GRANDE | FRESH | 617 | 617 | 617 | 617 | 617 | 617 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | GLASSCOCK | COLORADO | FRESH | 65,186 | 65,186 | 65,186 | 65,186 | 65,186 | 65,186 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | IRION | COLORADO | FRESH | 3,289 | 3,289 | 3,289 | 3,289 | 3,289 | 3,289 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | KIMBLE | COLORADO | FRESH | 1,386 | 1,386 | 1,386 | 1,386 | 1,386 | 1,386 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | MASON | COLORADO | FRESH | 18 | 18 | 18 | 18 | 18 | 18 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | MCCULLOCH | COLORADO | FRESH | 148 | 148 | 148 | 148 | 148 | 148 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | MENARD | COLORADO | FRESH | 2,594 | 2,594 | 2,594 | 2,594 | 2,594 | 2,594 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | MIDLAND | COLORADO | FRESH | 23,233 | 23,233 | 23,233 | 23,233 | 23,233 | 23,233 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | PECOS | RIO GRANDE | FRESH/ BRACKISH | 117,309 | 117,309 | 117,309 | 117,309 | 117,309 | 117,309 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | REAGAN | COLORADO | FRESH | 68,205 | 68,205 | 68,205 | 68,205 | 68,205 | 68,205 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | REAGAN | RIO GRANDE | FRESH | 28 | 28 | 28 | 28 | 28 | 28 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | SCHLEICHER | COLORADO | FRESH | 6,403 | 6,403 | 6,403 | 6,403 | 6,403 | 6,403 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | SCHLEICHER | RIO GRANDE | FRESH | 1,631 | 1,631 | 1,631 | 1,631 | 1,631 | 1,631 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | STERLING | COLORADO | FRESH | 2,495 | 2,495 | 2,495 | 2,495 | 2,495 | 2,495 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | SUTTON | COLORADO | FRESH | 388 | 388 | 388 | 388 | 388 | 388 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | SUTTON | RIO GRANDE | FRESH | 6,022 | 6,022 | 6,022 | 6,022 | 6,022 | 6,022 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | TOM GREEN | COLORADO | FRESH | 2,797 | 2,797 | 2,797 | 2,797 | 2,797 | 2,797 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | UPTON | COLORADO | FRESH | 21,243 | 21,243 | 21,243 | 21,243 | 21,243 | 21,243 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | UPTON | RIO GRANDE | FRESH | 1,126 | 1,126 | 1,126 | 1,126 | 1,126 | 1,126 |
| ELLENBURGER-SAN SABA AQUIFER | BROWN | COLORADO | FRESH | 131 | 131 | 131 | 131 | 131 | 131 |
| ELLENBURGER-SAN SABA AQUIFER | KIMBLE | COLORADO | FRESH | 521 | 521 | 521 | 521 | 521 | 521 |
| ELLENBURGER-SAN SABA AQUIFER | MASON | COLORADO | FRESH | 3,237 | 3,237 | 3,237 | 3,237 | 3,237 | 3,237 |
| ELLENBURGER-SAN SABA AQUIFER | MCCULLOCH | COLORADO | FRESH | 4,364 | 4,364 | 4,364 | 4,364 | 4,364 | 4,364 |
| ELLENBURGER-SAN SABA AQUIFER | MENARD | COLORADO | FRESH | 309 | 309 | 309 | 309 | 309 | 309 |

*Salinity field indicates whether the source availability is considered 'fresh' (less than 1,000 mg/L), 'brackish' (1,000 to 10,000 mg/L), 'saline' (10,001 mg/L to 34,999 mg/L), or 'seawater' (35,000 mg/L or greater). Sources can also be labeled as 'fresh/brackish' or 'brackish/saline', if a combination of the salinity types is appropriate.

Region F Source Availability

| GROUNDWATER SOURCE TYPE | | | | SOURCE AVAILABILITY (ACRE-FEET PER YEAR) | | | | | |
|--|-----------|------------|--------------------|--|--------|--------|--------|--------|--------|
| SOURCE NAME | COUNTY | BASIN | SALINITY * | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| HICKORY AQUIFER | BROWN | COLORADO | FRESH | 12 | 12 | 12 | 12 | 12 | 12 |
| HICKORY AQUIFER | COLEMAN | COLORADO | FRESH | 500 | 500 | 500 | 500 | 500 | 500 |
| HICKORY AQUIFER | CONCHO | COLORADO | FRESH | 27 | 27 | 27 | 27 | 27 | 27 |
| HICKORY AQUIFER | KIMBLE | COLORADO | FRESH | 165 | 165 | 165 | 165 | 165 | 165 |
| HICKORY AQUIFER | MASON | COLORADO | FRESH | 13,212 | 13,212 | 13,212 | 13,212 | 13,212 | 13,212 |
| HICKORY AQUIFER | MCCULLOCH | COLORADO | FRESH | 24,377 | 24,377 | 24,377 | 24,377 | 24,377 | 24,377 |
| HICKORY AQUIFER | MENARD | COLORADO | FRESH | 2,725 | 2,725 | 2,725 | 2,725 | 2,725 | 2,725 |
| IGNEOUS AQUIFER | PECOS | RIO GRANDE | FRESH | 80 | 80 | 80 | 80 | 80 | 80 |
| IGNEOUS AQUIFER | REEVES | RIO GRANDE | FRESH | 300 | 300 | 300 | 300 | 300 | 300 |
| LIPAN AQUIFER | COKE | COLORADO | FRESH/ BRACKISH | 160 | 160 | 160 | 160 | 160 | 160 |
| LIPAN AQUIFER | CONCHO | COLORADO | FRESH | 1,893 | 1,893 | 1,893 | 1,893 | 1,893 | 1,893 |
| LIPAN AQUIFER | GLASSCOCK | COLORADO | FRESH | 10 | 10 | 10 | 10 | 10 | 10 |
| LIPAN AQUIFER | IRION | COLORADO | FRESH | 13 | 13 | 13 | 13 | 13 | 13 |
| LIPAN AQUIFER | RUNNELS | COLORADO | FRESH | 45 | 45 | 45 | 45 | 45 | 45 |
| LIPAN AQUIFER | STERLING | COLORADO | FRESH | 850 | 850 | 850 | 850 | 850 | 850 |
| LIPAN AQUIFER | TOM GREEN | COLORADO | FRESH | 43,568 | 43,568 | 43,568 | 43,568 | 43,568 | 43,568 |
| MARBLE FALLS AQUIFER | BROWN | COLORADO | FRESH | 25 | 25 | 25 | 25 | 25 | 25 |
| MARBLE FALLS AQUIFER | KIMBLE | COLORADO | FRESH | 100 | 100 | 100 | 100 | 100 | 100 |
| MARBLE FALLS AQUIFER | MASON | COLORADO | FRESH | 100 | 100 | 100 | 100 | 100 | 100 |
| MARBLE FALLS AQUIFER | MCCULLOCH | COLORADO | FRESH | 50 | 50 | 50 | 50 | 50 | 50 |
| OGALLALA AQUIFER | ECTOR | COLORADO | FRESH | 8,026 | 7,730 | 7,171 | 7,135 | 6,727 | 6,727 |
| OGALLALA AQUIFER | GLASSCOCK | COLORADO | FRESH | 7,925 | 7,673 | 7,372 | 7,058 | 6,803 | 6,570 |
| OGALLALA AQUIFER | MIDLAND | COLORADO | FRESH | 38,388 | 36,824 | 34,623 | 32,693 | 31,325 | 31,325 |
| OGALLALA AQUIFER | WINKLER | RIO GRANDE | FRESH | 40 | 40 | 40 | 40 | 40 | 40 |
| OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER | ANDREWS | COLORADO | FRESH | 24,937 | 21,375 | 19,795 | 18,774 | 18,040 | 17,474 |
| OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER | ANDREWS | RIO GRANDE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER | BORDEN | BRAZOS | FRESH | 842 | 699 | 635 | 597 | 572 | 555 |
| OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER | BORDEN | COLORADO | FRESH | 5,080 | 3,940 | 3,433 | 3,140 | 2,849 | 2,657 |
| OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER | HOWARD | COLORADO | FRESH | 19,835 | 17,391 | 16,264 | 15,638 | 15,281 | 15,066 |
| OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER | MARTIN | COLORADO | FRESH | 63,463 | 51,126 | 43,861 | 39,793 | 37,210 | 35,425 |
| OTHER AQUIFER | BORDEN | COLORADO | FRESH | 2,598 | 2,598 | 2,598 | 2,598 | 2,598 | 2,598 |
| OTHER AQUIFER | COKE | COLORADO | FRESH | 2,100 | 2,100 | 2,100 | 2,100 | 2,100 | 2,100 |
| OTHER AQUIFER | COLEMAN | COLORADO | FRESH | 109 | 109 | 109 | 109 | 109 | 109 |
| OTHER AQUIFER | CONCHO | COLORADO | FRESH | 5,964 | 5,964 | 5,964 | 5,964 | 5,964 | 5,964 |
| OTHER AQUIFER | MCCULLOCH | COLORADO | FRESH | 103 | 103 | 103 | 103 | 103 | 103 |
| OTHER AQUIFER | MENARD | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| OTHER AQUIFER | MITCHELL | COLORADO | FRESH | 789 | 789 | 789 | 789 | 789 | 789 |
| OTHER AQUIFER | PECOS | RIO GRANDE | FRESH | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 |
| OTHER AQUIFER | RUNNELS | COLORADO | FRESH | 5,001 | 5,001 | 5,001 | 5,001 | 5,001 | 5,001 |
| OTHER AQUIFER | SCURRY | BRAZOS | BRACKISH | 74 | 74 | 74 | 74 | 74 | 74 |

*Salinity field indicates whether the source availability is considered 'fresh' (less than 1,000 mg/L), 'brackish' (1,000 to 10,000 mg/L), 'saline' (10,001 mg/L to 34,999 mg/L), or 'seawater' (35,000 mg/L or greater). Sources can also be labeled as 'fresh/brackish' or 'brackish/saline', if a combination of the salinity types is appropriate.

Region F Source Availability

| GROUNDWATER SOURCE TYPE | | | | SOURCE AVAILABILITY (ACRE-FEET PER YEAR) | | | | | |
|--|-----------|------------|--------------------|--|------------------|------------------|------------------|------------------|------------------|
| SOURCE NAME | COUNTY | BASIN | SALINITY * | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| OTHER AQUIFER | SCURRY | COLORADO | FRESH | 315 | 315 | 315 | 315 | 315 | 315 |
| OTHER AQUIFER | TOM GREEN | COLORADO | FRESH/ BRACKISH | 0 | 0 | 0 | 0 | 0 | 0 |
| OTHER AQUIFER | MASON | COLORADO | FRESH | 873 | 873 | 873 | 873 | 873 | 873 |
| PECOS VALLEY AQUIFER | ANDREWS | RIO GRANDE | FRESH | 150 | 150 | 150 | 150 | 150 | 150 |
| PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER | CRANE | RIO GRANDE | FRESH | 4,991 | 4,991 | 4,991 | 4,991 | 4,991 | 4,991 |
| PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER | LOVING | RIO GRANDE | FRESH | 2,982 | 2,982 | 2,982 | 2,982 | 2,982 | 2,982 |
| PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER | PECOS | RIO GRANDE | FRESH | 122,899 | 122,899 | 122,899 | 122,899 | 122,899 | 122,899 |
| PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER | REEVES | RIO GRANDE | FRESH | 189,744 | 189,744 | 189,744 | 189,744 | 189,744 | 189,744 |
| PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER | WARD | RIO GRANDE | FRESH | 49,976 | 49,976 | 49,976 | 49,976 | 49,976 | 49,976 |
| PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER | WINKLER | RIO GRANDE | FRESH | 49,949 | 49,949 | 49,949 | 49,949 | 49,949 | 49,949 |
| RUSTLER AQUIFER | LOVING | RIO GRANDE | FRESH | 200 | 200 | 200 | 200 | 200 | 200 |
| RUSTLER AQUIFER | PECOS | RIO GRANDE | FRESH | 7,043 | 7,043 | 7,043 | 7,043 | 7,043 | 7,043 |
| RUSTLER AQUIFER | REEVES | RIO GRANDE | FRESH | 2,387 | 2,387 | 2,387 | 2,387 | 2,387 | 2,387 |
| RUSTLER AQUIFER | WARD | RIO GRANDE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| RUSTLER AQUIFER | CRANE | RIO GRANDE | FRESH/ BRACKISH | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 |
| RUSTLER AQUIFER | WINKLER | RIO GRANDE | BRACKISH | 500 | 500 | 500 | 500 | 500 | 500 |
| SEYMOUR AQUIFER | SCURRY | BRAZOS | FRESH | 10 | 10 | 10 | 10 | 10 | 10 |
| TRINITY AQUIFER | BROWN | BRAZOS | FRESH | 51 | 51 | 51 | 51 | 51 | 51 |
| TRINITY AQUIFER | BROWN | COLORADO | FRESH | 1,399 | 1,395 | 1,399 | 1,395 | 1,399 | 1,395 |
| GROUNDWATER TOTAL SOURCE AVAILABILITY | | | | 1,135,369 | 1,113,627 | 1,100,027 | 1,091,697 | 1,085,680 | 1,082,668 |

| REUSE SOURCE TYPE | | | | SOURCE AVAILABILITY (ACRE-FEET PER YEAR) | | | | | |
|--|-----------|------------|------------|--|---------------|---------------|---------------|---------------|---------------|
| SOURCE NAME | COUNTY | BASIN | SALINITY * | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| DIRECT REUSE | ANDREWS | COLORADO | FRESH | 560 | 560 | 560 | 560 | 560 | 560 |
| DIRECT REUSE | CRANE | RIO GRANDE | FRESH | 73 | 73 | 73 | 73 | 73 | 73 |
| DIRECT REUSE | ECTOR | COLORADO | FRESH | 9,530 | 9,530 | 9,530 | 9,530 | 9,530 | 9,530 |
| DIRECT REUSE | HOWARD | COLORADO | FRESH | 1,855 | 1,855 | 1,855 | 1,855 | 1,855 | 1,855 |
| DIRECT REUSE | MIDLAND | COLORADO | FRESH | 11,211 | 11,211 | 11,211 | 11,211 | 11,211 | 11,211 |
| DIRECT REUSE | MITCHELL | COLORADO | FRESH | 552 | 552 | 552 | 552 | 552 | 552 |
| DIRECT REUSE | RUNNELS | COLORADO | FRESH | 22 | 22 | 22 | 22 | 22 | 22 |
| DIRECT REUSE | TOM GREEN | COLORADO | FRESH | 8,300 | 8,300 | 8,300 | 8,300 | 8,300 | 8,300 |
| DIRECT REUSE | WARD | RIO GRANDE | FRESH | 670 | 670 | 670 | 670 | 670 | 670 |
| REUSE TOTAL SOURCE AVAILABILITY | | | | 32,773 | 32,773 | 32,773 | 32,773 | 32,773 | 32,773 |

| SURFACE WATER SOURCE TYPE | | | | SOURCE AVAILABILITY (ACRE-FEET PER YEAR) | | | | | |
|---------------------------------|-----------|------------|------------|--|--------|--------|--------|--------|--------|
| SOURCE NAME | COUNTY | BASIN | SALINITY * | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| BALLINGER/MOONEN LAKE/RESERVOIR | RESERVOIR | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| BALMORHEA LAKE/RESERVOIR | RESERVOIR | RIO GRANDE | FRESH | 18,800 | 18,800 | 18,800 | 18,800 | 18,800 | 18,800 |
| BRADY CREEK LAKE/RESERVOIR | RESERVOIR | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |

*Salinity field indicates whether the source availability is considered 'fresh' (less than 1,000 mg/L), 'brackish' (1,000 to 10,000 mg/L), 'saline' (10,001 mg/L to 34,999 mg/L), or 'seawater' (35,000 mg/L or greater). Sources can also be labeled as 'fresh/brackish' or 'brackish/saline', if a combination of the salinity types is appropriate.

Region F Source Availability

| SURFACE WATER SOURCE TYPE | | | | SOURCE AVAILABILITY (ACRE-FEET PER YEAR) | | | | | |
|--|------------|----------|------------|--|--------|--------|--------|--------|--------|
| SOURCE NAME | COUNTY | BASIN | SALINITY * | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| BRAZOS LIVESTOCK LOCAL SUPPLY | BORDEN | BRAZOS | FRESH | 12 | 12 | 12 | 12 | 12 | 12 |
| BRAZOS LIVESTOCK LOCAL SUPPLY | BROWN | BRAZOS | FRESH | 12 | 12 | 12 | 12 | 12 | 12 |
| BRAZOS LIVESTOCK LOCAL SUPPLY | SCURRY | BRAZOS | FRESH | 88 | 88 | 88 | 88 | 88 | 88 |
| BROWNWOOD LAKE/RESERVOIR | RESERVOIR | COLORADO | FRESH | 18,900 | 18,760 | 18,620 | 18,480 | 18,340 | 18,200 |
| COLEMAN LAKE/RESERVOIR | RESERVOIR | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO CITY-CHAMPION LAKE/RESERVOIR SYSTEM | RESERVOIR | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO LIVESTOCK LOCAL SUPPLY | BORDEN | COLORADO | FRESH | 152 | 152 | 152 | 152 | 152 | 152 |
| COLORADO LIVESTOCK LOCAL SUPPLY | BROWN | COLORADO | FRESH | 1,050 | 1,050 | 1,050 | 1,050 | 1,050 | 1,050 |
| COLORADO LIVESTOCK LOCAL SUPPLY | COKE | COLORADO | FRESH | 84 | 84 | 84 | 84 | 84 | 84 |
| COLORADO LIVESTOCK LOCAL SUPPLY | COLEMAN | COLORADO | FRESH | 769 | 769 | 769 | 769 | 769 | 769 |
| COLORADO LIVESTOCK LOCAL SUPPLY | CONCHO | COLORADO | FRESH | 223 | 223 | 223 | 223 | 223 | 223 |
| COLORADO LIVESTOCK LOCAL SUPPLY | CROCKETT | COLORADO | FRESH | 14 | 14 | 14 | 14 | 14 | 14 |
| COLORADO LIVESTOCK LOCAL SUPPLY | ECTOR | COLORADO | FRESH | 25 | 25 | 25 | 25 | 25 | 25 |
| COLORADO LIVESTOCK LOCAL SUPPLY | GLASSCOCK | COLORADO | FRESH | 38 | 38 | 38 | 38 | 38 | 38 |
| COLORADO LIVESTOCK LOCAL SUPPLY | HOWARD | COLORADO | FRESH | 39 | 39 | 39 | 39 | 39 | 39 |
| COLORADO LIVESTOCK LOCAL SUPPLY | IRION | COLORADO | FRESH | 57 | 57 | 57 | 57 | 57 | 57 |
| COLORADO LIVESTOCK LOCAL SUPPLY | KIMBLE | COLORADO | FRESH | 138 | 138 | 138 | 138 | 138 | 138 |
| COLORADO LIVESTOCK LOCAL SUPPLY | MARTIN | COLORADO | FRESH | 47 | 47 | 47 | 47 | 47 | 47 |
| COLORADO LIVESTOCK LOCAL SUPPLY | MASON | COLORADO | FRESH | 227 | 227 | 227 | 227 | 227 | 227 |
| COLORADO LIVESTOCK LOCAL SUPPLY | MCCULLOCH | COLORADO | FRESH | 235 | 235 | 235 | 235 | 235 | 235 |
| COLORADO LIVESTOCK LOCAL SUPPLY | MENARD | COLORADO | FRESH | 48 | 48 | 48 | 48 | 48 | 48 |
| COLORADO LIVESTOCK LOCAL SUPPLY | MIDLAND | COLORADO | FRESH | 3 | 3 | 3 | 3 | 3 | 3 |
| COLORADO LIVESTOCK LOCAL SUPPLY | MITCHELL | COLORADO | FRESH | 308 | 308 | 308 | 308 | 308 | 308 |
| COLORADO LIVESTOCK LOCAL SUPPLY | REAGAN | COLORADO | FRESH | 60 | 60 | 60 | 60 | 60 | 60 |
| COLORADO LIVESTOCK LOCAL SUPPLY | RUNNELS | COLORADO | FRESH | 475 | 475 | 475 | 475 | 475 | 475 |
| COLORADO LIVESTOCK LOCAL SUPPLY | SCHLEICHER | COLORADO | FRESH | 17 | 17 | 17 | 17 | 17 | 17 |
| COLORADO LIVESTOCK LOCAL SUPPLY | SCURRY | COLORADO | FRESH | 352 | 352 | 352 | 352 | 352 | 352 |
| COLORADO LIVESTOCK LOCAL SUPPLY | STERLING | COLORADO | FRESH | 25 | 25 | 25 | 25 | 25 | 25 |
| COLORADO LIVESTOCK LOCAL SUPPLY | SUTTON | COLORADO | FRESH | 172 | 172 | 172 | 172 | 172 | 172 |
| COLORADO LIVESTOCK LOCAL SUPPLY | TOM GREEN | COLORADO | FRESH | 317 | 317 | 317 | 317 | 317 | 317 |
| COLORADO RIVER MWD LAKE/RESERVOIR SYSTEM | RESERVOIR | COLORADO | FRESH | 14,806 | 14,143 | 13,681 | 13,205 | 12,732 | 12,256 |
| COLORADO RUN-OF-RIVER | BROWN | COLORADO | FRESH | 276 | 276 | 276 | 276 | 276 | 276 |
| COLORADO RUN-OF-RIVER | COKE | COLORADO | FRESH | 16 | 16 | 16 | 16 | 16 | 16 |
| COLORADO RUN-OF-RIVER | COLEMAN | COLORADO | FRESH | 25 | 25 | 25 | 25 | 25 | 25 |
| COLORADO RUN-OF-RIVER | CONCHO | COLORADO | FRESH | 244 | 244 | 244 | 244 | 244 | 244 |
| COLORADO RUN-OF-RIVER | ECTOR | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO RUN-OF-RIVER | IRION | COLORADO | FRESH | 221 | 221 | 221 | 221 | 221 | 221 |
| COLORADO RUN-OF-RIVER | KIMBLE | COLORADO | FRESH | 1,113 | 1,113 | 1,113 | 1,113 | 1,113 | 1,113 |
| COLORADO RUN-OF-RIVER | MCCULLOCH | COLORADO | FRESH | 69 | 69 | 69 | 69 | 69 | 69 |
| COLORADO RUN-OF-RIVER | MENARD | COLORADO | FRESH | 2,090 | 2,090 | 2,090 | 2,090 | 2,090 | 2,090 |
| COLORADO RUN-OF-RIVER | MITCHELL | COLORADO | FRESH | 14 | 14 | 14 | 14 | 14 | 14 |
| COLORADO RUN-OF-RIVER | RUNNELS | COLORADO | FRESH | 262 | 262 | 262 | 262 | 262 | 262 |
| COLORADO RUN-OF-RIVER | SCURRY | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |

*Salinity field indicates whether the source availability is considered 'fresh' (less than 1,000 mg/L), 'brackish' (1,000 to 10,000 mg/L), 'saline' (10,001 mg/L to 34,999 mg/L), or 'seawater' (35,000 mg/L or greater). Sources can also be labeled as 'fresh/brackish' or 'brackish/saline', if a combination of the salinity types is appropriate.

Region F Source Availability

| SURFACE WATER SOURCE TYPE | | | | SOURCE AVAILABILITY (ACRE-FEET PER YEAR) | | | | | |
|--|------------|------------|------------|--|------------------|------------------|------------------|------------------|------------------|
| SOURCE NAME | COUNTY | BASIN | SALINITY * | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| COLORADO RUN-OF-RIVER | STERLING | COLORADO | FRESH | 30 | 30 | 30 | 30 | 30 | 30 |
| COLORADO RUN-OF-RIVER | SUTTON | COLORADO | FRESH | 2 | 2 | 2 | 2 | 2 | 2 |
| COLORADO RUN-OF-RIVER | TOM GREEN | COLORADO | FRESH | 1,969 | 1,969 | 1,969 | 1,969 | 1,969 | 1,969 |
| CRMWD DIVERTED WATER SYSTEM | RESERVOIR | COLORADO | BRACKISH | 5,760 | 5,760 | 5,760 | 5,760 | 5,760 | 5,760 |
| EV SPENCE LAKE/RESERVOIR NON-SYSTEM PORTION | RESERVOIR | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| HORDS CREEK LAKE/RESERVOIR | RESERVOIR | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| MOUNTAIN CREEK LAKE/RESERVOIR | RESERVOIR | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| OAK CREEK LAKE/RESERVOIR | RESERVOIR | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| OH IVIE LAKE/RESERVOIR NON-SYSTEM PORTION | RESERVOIR | COLORADO | FRESH | 15,544 | 15,177 | 14,609 | 14,055 | 13,498 | 12,944 |
| RED BLUFF LAKE/RESERVOIR | RESERVOIR | RIO GRANDE | FRESH | 30,050 | 29,980 | 29,910 | 29,840 | 29,770 | 29,700 |
| RIO GRANDE LIVESTOCK LOCAL SUPPLY | CRANE | RIO GRANDE | FRESH | 4 | 4 | 4 | 4 | 4 | 4 |
| RIO GRANDE LIVESTOCK LOCAL SUPPLY | CROCKETT | RIO GRANDE | FRESH | 16 | 16 | 16 | 16 | 16 | 16 |
| RIO GRANDE LIVESTOCK LOCAL SUPPLY | LOVING | RIO GRANDE | FRESH | 1 | 1 | 1 | 1 | 1 | 1 |
| RIO GRANDE LIVESTOCK LOCAL SUPPLY | PECOS | RIO GRANDE | FRESH | 37 | 37 | 37 | 37 | 37 | 37 |
| RIO GRANDE LIVESTOCK LOCAL SUPPLY | SCHLEICHER | RIO GRANDE | FRESH | 6 | 6 | 6 | 6 | 6 | 6 |
| RIO GRANDE LIVESTOCK LOCAL SUPPLY | SUTTON | RIO GRANDE | FRESH | 214 | 214 | 214 | 214 | 214 | 214 |
| RIO GRANDE LIVESTOCK LOCAL SUPPLY | WARD | RIO GRANDE | FRESH | 5 | 5 | 5 | 5 | 5 | 5 |
| RIO GRANDE LIVESTOCK LOCAL SUPPLY | WINKLER | RIO GRANDE | FRESH | 2 | 2 | 2 | 2 | 2 | 2 |
| RIO GRANDE RUN-OF-RIVER | PECOS | RIO GRANDE | FRESH | 18,672 | 18,672 | 18,672 | 18,672 | 18,672 | 18,672 |
| RIO GRANDE RUN-OF-RIVER | REEVES | RIO GRANDE | FRESH | 573 | 573 | 573 | 573 | 573 | 573 |
| RIO GRANDE RUN-OF-RIVER | WARD | RIO GRANDE | FRESH | 881 | 881 | 881 | 881 | 881 | 881 |
| SAN ANGELO LAKES LAKE/RESERVOIR SYSTEM | RESERVOIR | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| WINTERS LAKE/RESERVOIR | RESERVOIR | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| SURFACE WATER TOTAL SOURCE AVAILABILITY | | | | 135,589 | 134,349 | 133,109 | 131,869 | 130,629 | 129,389 |
| REGION F TOTAL SOURCE AVAILABILITY | | | | 1,303,731 | 1,280,749 | 1,265,909 | 1,256,339 | 1,249,082 | 1,244,830 |

*Salinity field indicates whether the source availability is considered 'fresh' (less than 1,000 mg/L), 'brackish' (1,000 to 10,000 mg/L), 'saline' (10,001 mg/L to 34,999 mg/L), or 'seawater' (35,000 mg/L or greater). Sources can also be labeled as 'fresh/brackish' or 'brackish/saline', if a combination of the salinity types is appropriate.

TWDB Report #5 – WUG Existing Water Supplies

Region F Water User Group (WUG) Existing Water Supply

| WUG NAME | SOURCE REGION | SOURCE DESCRIPTION | EXISTING SUPPLY (ACRE-FEET PER YEAR) | | | | | |
|-------------------------------|---------------|---|--------------------------------------|---------------|---------------|---------------|---------------|---------------|
| | | | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| ANDREWS | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER ANDREWS COUNTY | 3,990 | 4,610 | 5,070 | 5,395 | 5,788 | 6,221 |
| COUNTY-OTHER | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER ANDREWS COUNTY | 505 | 517 | 525 | 512 | 506 | 499 |
| MANUFACTURING | F | DOCKUM AQUIFER ANDREWS COUNTY | 10 | 10 | 10 | 10 | 10 | 10 |
| MANUFACTURING | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER ANDREWS COUNTY | 539 | 548 | 520 | 473 | 433 | 398 |
| MINING | F | DIRECT REUSE | 657 | 674 | 712 | 758 | 799 | 830 |
| MINING | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER ANDREWS COUNTY | 47 | 45 | 43 | 39 | 35 | 32 |
| LIVESTOCK | F | DOCKUM AQUIFER ANDREWS COUNTY | 9 | 9 | 9 | 9 | 9 | 9 |
| LIVESTOCK | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER ANDREWS COUNTY | 160 | 152 | 144 | 130 | 119 | 109 |
| IRRIGATION | F | DIRECT REUSE | 560 | 560 | 560 | 560 | 560 | 560 |
| IRRIGATION | F | EDWARDS-TRINITY-PLATEAU AQUIFER ANDREWS COUNTY | 1,198 | 1,198 | 1,198 | 1,198 | 1,198 | 1,198 |
| IRRIGATION | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER ANDREWS COUNTY | 16,792 | 12,803 | 12,120 | 10,981 | 10,023 | 9,174 |
| COLORADO BASIN TOTAL | | | 24,467 | 21,126 | 20,911 | 20,065 | 19,480 | 19,040 |
| COUNTY-OTHER | F | PECOS VALLEY AQUIFER ANDREWS COUNTY | 2 | 2 | 2 | 2 | 2 | 2 |
| MINING | F | DIRECT REUSE | 277 | 260 | 222 | 176 | 135 | 104 |
| LIVESTOCK | F | PECOS VALLEY AQUIFER ANDREWS COUNTY | 32 | 32 | 32 | 32 | 32 | 32 |
| IRRIGATION | F | PECOS VALLEY AQUIFER ANDREWS COUNTY | 116 | 116 | 116 | 116 | 116 | 116 |
| RIO GRANDE BASIN TOTAL | | | 427 | 410 | 372 | 326 | 285 | 254 |
| ANDREWS COUNTY TOTAL | | | 24,894 | 21,536 | 21,283 | 20,391 | 19,765 | 19,294 |
| COUNTY-OTHER | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER BORDEN COUNTY | 11 | 11 | 11 | 11 | 11 | 11 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 12 | 12 | 12 | 12 | 12 | 12 |
| IRRIGATION | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER BORDEN COUNTY | 826 | 688 | 624 | 586 | 561 | 544 |
| BRAZOS BASIN TOTAL | | | 849 | 711 | 647 | 609 | 584 | 567 |
| COUNTY-OTHER | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER BORDEN COUNTY | 21 | 21 | 18 | 18 | 18 | 18 |
| COUNTY-OTHER | O | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER DAWSON COUNTY | 72 | 72 | 72 | 72 | 72 | 72 |
| COUNTY-OTHER | F | OTHER AQUIFER BORDEN COUNTY | 74 | 74 | 74 | 74 | 74 | 74 |
| MINING | F | OTHER AQUIFER BORDEN COUNTY | 679 | 927 | 784 | 494 | 244 | 121 |
| LIVESTOCK | F | DOCKUM AQUIFER BORDEN COUNTY | 11 | 11 | 11 | 11 | 11 | 11 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 152 | 152 | 152 | 152 | 152 | 152 |
| IRRIGATION | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER BORDEN COUNTY | 1,720 | 1,720 | 1,720 | 1,720 | 1,720 | 1,720 |
| IRRIGATION | F | OTHER AQUIFER BORDEN COUNTY | 403 | 403 | 403 | 403 | 403 | 403 |
| COLORADO BASIN TOTAL | | | 3,132 | 3,380 | 3,234 | 2,944 | 2,694 | 2,571 |
| BORDEN COUNTY TOTAL | | | 3,981 | 4,091 | 3,881 | 3,553 | 3,278 | 3,138 |
| COUNTY-OTHER | F | TRINITY AQUIFER BROWN COUNTY | 6 | 6 | 6 | 6 | 6 | 6 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 12 | 12 | 12 | 12 | 12 | 12 |
| IRRIGATION | F | TRINITY AQUIFER BROWN COUNTY | 45 | 45 | 45 | 45 | 45 | 45 |
| BRAZOS BASIN TOTAL | | | 63 | 63 | 63 | 63 | 63 | 63 |
| BANGS | F | BROWNWOOD LAKE/RESERVOIR | 310 | 305 | 296 | 291 | 290 | 290 |
| BROOKESMITH SUD | F | BROWNWOOD LAKE/RESERVOIR | 1,199 | 1,195 | 1,170 | 1,156 | 1,154 | 1,154 |
| BROWNWOOD | F | BROWNWOOD LAKE/RESERVOIR | 3,717 | 3,713 | 3,640 | 3,600 | 3,593 | 3,593 |

Region F Water User Group (WUG) Existing Water Supply

| WUG NAME | SOURCE REGION | SOURCE DESCRIPTION | EXISTING SUPPLY (ACRE-FEET PER YEAR) | | | | | |
|-----------------------------|---------------|--|--------------------------------------|---------------|---------------|---------------|---------------|---------------|
| | | | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| COLEMAN COUNTY SUD | F | BROWNWOOD LAKE/RESERVOIR | 12 | 12 | 12 | 12 | 12 | 12 |
| COLEMAN COUNTY SUD | F | COLEMAN LAKE/RESERVOIR | 0 | 0 | 0 | 0 | 0 | 0 |
| COLEMAN COUNTY SUD | F | HORDS CREEK LAKE/RESERVOIR | 0 | 0 | 0 | 0 | 0 | 0 |
| EARLY | F | BROWNWOOD LAKE/RESERVOIR | 292 | 287 | 277 | 271 | 270 | 270 |
| ZEPHYR WSC | F | BROWNWOOD LAKE/RESERVOIR | 343 | 339 | 330 | 325 | 324 | 324 |
| COUNTY-OTHER | F | BROWNWOOD LAKE/RESERVOIR | 129 | 129 | 129 | 129 | 129 | 129 |
| COUNTY-OTHER | F | CROSS TIMBERS AQUIFER BROWN COUNTY | 16 | 18 | 17 | 17 | 15 | 15 |
| COUNTY-OTHER | F | TRINITY AQUIFER BROWN COUNTY | 19 | 19 | 19 | 18 | 19 | 19 |
| MANUFACTURING | F | BROWNWOOD LAKE/RESERVOIR | 548 | 651 | 651 | 651 | 651 | 651 |
| MINING | F | CROSS TIMBERS AQUIFER BROWN COUNTY | 300 | 300 | 300 | 300 | 300 | 300 |
| MINING | F | TRINITY AQUIFER BROWN COUNTY | 382 | 382 | 385 | 384 | 384 | 381 |
| LIVESTOCK | F | CROSS TIMBERS AQUIFER BROWN COUNTY | 45 | 45 | 45 | 45 | 45 | 45 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 1,050 | 1,050 | 1,050 | 1,050 | 1,050 | 1,050 |
| LIVESTOCK | F | TRINITY AQUIFER BROWN COUNTY | 12 | 12 | 12 | 12 | 12 | 12 |
| IRRIGATION | F | BROWNWOOD LAKE/RESERVOIR | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 |
| IRRIGATION | F | COLORADO RUN-OF-RIVER | 276 | 276 | 276 | 276 | 276 | 276 |
| IRRIGATION | F | CROSS TIMBERS AQUIFER BROWN COUNTY | 110 | 110 | 110 | 110 | 110 | 110 |
| IRRIGATION | F | TRINITY AQUIFER BROWN COUNTY | 986 | 982 | 983 | 981 | 984 | 983 |
| COLORADO BASIN TOTAL | | | 14,746 | 14,825 | 14,702 | 14,628 | 14,618 | 14,614 |
| BROWN COUNTY TOTAL | | | 14,809 | 14,888 | 14,765 | 14,691 | 14,681 | 14,677 |
| BRONTE | F | OAK CREEK LAKE/RESERVOIR | 0 | 0 | 0 | 0 | 0 | 0 |
| BRONTE | F | OTHER AQUIFER COKE COUNTY | 71 | 68 | 66 | 65 | 65 | 65 |
| ROBERT LEE | F | EV SPENCE LAKE/RESERVOIR NON-SYSTEM PORTION | 0 | 0 | 0 | 0 | 0 | 0 |
| ROBERT LEE | F | OAK CREEK LAKE/RESERVOIR | 0 | 0 | 0 | 0 | 0 | 0 |
| ROBERT LEE | F | OTHER AQUIFER COKE COUNTY | 56 | 55 | 53 | 53 | 53 | 53 |
| COUNTY-OTHER | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER COKE COUNTY | 25 | 25 | 25 | 25 | 25 | 25 |
| COUNTY-OTHER | F | OAK CREEK LAKE/RESERVOIR | 0 | 0 | 0 | 0 | 0 | 0 |
| COUNTY-OTHER | F | OTHER AQUIFER COKE COUNTY | 85 | 79 | 74 | 72 | 72 | 72 |
| MINING | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER COKE COUNTY | 488 | 482 | 430 | 376 | 328 | 286 |
| LIVESTOCK | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER COKE COUNTY | 91 | 91 | 91 | 91 | 91 | 91 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 84 | 84 | 84 | 84 | 84 | 84 |
| LIVESTOCK | F | OTHER AQUIFER COKE COUNTY | 131 | 131 | 131 | 131 | 131 | 131 |
| IRRIGATION | F | COLORADO RUN-OF-RIVER | 11 | 11 | 11 | 11 | 11 | 11 |
| IRRIGATION | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER COKE COUNTY | 43 | 43 | 43 | 43 | 43 | 43 |
| IRRIGATION | F | OTHER AQUIFER COKE COUNTY | 635 | 635 | 635 | 635 | 635 | 635 |
| COLORADO BASIN TOTAL | | | 1,720 | 1,704 | 1,643 | 1,586 | 1,538 | 1,496 |
| COKE COUNTY TOTAL | | | 1,720 | 1,704 | 1,643 | 1,586 | 1,538 | 1,496 |
| BROOKESMITH SUD | F | BROWNWOOD LAKE/RESERVOIR | 6 | 6 | 6 | 6 | 6 | 6 |
| COLEMAN | F | COLEMAN LAKE/RESERVOIR | 0 | 0 | 0 | 0 | 0 | 0 |
| COLEMAN | F | HORDS CREEK LAKE/RESERVOIR | 0 | 0 | 0 | 0 | 0 | 0 |
| COLEMAN COUNTY SUD | F | BROWNWOOD LAKE/RESERVOIR | 182 | 180 | 175 | 172 | 171 | 171 |
| COLEMAN COUNTY SUD | F | COLEMAN LAKE/RESERVOIR | 0 | 0 | 0 | 0 | 0 | 0 |
| COLEMAN COUNTY SUD | F | HORDS CREEK LAKE/RESERVOIR | 0 | 0 | 0 | 0 | 0 | 0 |
| SANTA ANNA | F | BROWNWOOD LAKE/RESERVOIR | 156 | 154 | 149 | 149 | 148 | 148 |
| COUNTY-OTHER | F | COLEMAN LAKE/RESERVOIR | 0 | 0 | 0 | 0 | 0 | 0 |

Region F Water User Group (WUG) Existing Water Supply

| WUG NAME | SOURCE | SOURCE DESCRIPTION | EXISTING SUPPLY (ACRE-FEET PER YEAR) | | | | | |
|-------------------------------|--------|--|--------------------------------------|--------------|--------------|--------------|--------------|--------------|
| | REGION | | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| COUNTY-OTHER | F | HORDS CREEK LAKE/RESERVOIR | 0 | 0 | 0 | 0 | 0 | 0 |
| MANUFACTURING | F | COLEMAN LAKE/RESERVOIR | 0 | 0 | 0 | 0 | 0 | 0 |
| MANUFACTURING | F | HORDS CREEK LAKE/RESERVOIR | 0 | 0 | 0 | 0 | 0 | 0 |
| MINING | F | OTHER AQUIFER COLEMAN COUNTY | 108 | 107 | 97 | 86 | 77 | 69 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 769 | 769 | 769 | 769 | 769 | 769 |
| IRRIGATION | F | COLEMAN LAKE/RESERVOIR | 0 | 0 | 0 | 0 | 0 | 0 |
| IRRIGATION | F | COLORADO RUN-OF-RIVER | 25 | 25 | 25 | 25 | 25 | 25 |
| IRRIGATION | F | CROSS TIMBERS AQUIFER COLEMAN COUNTY | 44 | 44 | 44 | 44 | 44 | 44 |
| COLORADO BASIN TOTAL | | | 1,290 | 1,285 | 1,265 | 1,251 | 1,240 | 1,232 |
| COLEMAN COUNTY TOTAL | | | 1,290 | 1,285 | 1,265 | 1,251 | 1,240 | 1,232 |
| EDEN | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER CONCHO COUNTY | 206 | 210 | 207 | 205 | 204 | 204 |
| EDEN | F | OTHER AQUIFER CONCHO COUNTY | 0 | 0 | 0 | 0 | 0 | 0 |
| MILLERSVIEW-DOOLE WSC | F | HICKORY AQUIFER MCCULLOCH COUNTY | 31 | 30 | 29 | 29 | 28 | 28 |
| MILLERSVIEW-DOOLE WSC | F | OH IVIE LAKE/RESERVOIR NON-SYSTEM PORTION | 40 | 51 | 46 | 41 | 37 | 34 |
| COUNTY-OTHER | F | COLORADO RUN-OF-RIVER | 38 | 38 | 38 | 38 | 38 | 38 |
| COUNTY-OTHER | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER CONCHO COUNTY | 56 | 54 | 51 | 50 | 49 | 49 |
| COUNTY-OTHER | F | MOUNTAIN CREEK LAKE/RESERVOIR | 0 | 0 | 0 | 0 | 0 | 0 |
| COUNTY-OTHER | F | OTHER AQUIFER CONCHO COUNTY | 0 | 0 | 0 | 0 | 0 | 0 |
| MINING | F | OTHER AQUIFER CONCHO COUNTY | 480 | 474 | 422 | 367 | 320 | 279 |
| LIVESTOCK | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER CONCHO COUNTY | 159 | 159 | 159 | 159 | 159 | 159 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 223 | 223 | 223 | 223 | 223 | 223 |
| IRRIGATION | F | COLORADO RUN-OF-RIVER | 206 | 206 | 206 | 206 | 206 | 206 |
| IRRIGATION | F | LIPAN AQUIFER CONCHO COUNTY | 1,893 | 1,893 | 1,893 | 1,893 | 1,893 | 1,893 |
| IRRIGATION | F | OTHER AQUIFER CONCHO COUNTY | 2,803 | 2,803 | 2,803 | 2,803 | 2,803 | 2,803 |
| COLORADO BASIN TOTAL | | | 6,135 | 6,141 | 6,077 | 6,014 | 5,960 | 5,916 |
| CONCHO COUNTY TOTAL | | | 6,135 | 6,141 | 6,077 | 6,014 | 5,960 | 5,916 |
| CRANE | F | DIRECT REUSE | 73 | 73 | 73 | 73 | 73 | 73 |
| CRANE | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER CRANE COUNTY | 1,002 | 1,063 | 1,112 | 1,164 | 1,210 | 1,250 |
| CRANE | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER WARD COUNTY | 186 | 203 | 216 | 230 | 242 | 252 |
| COUNTY-OTHER | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER CRANE COUNTY | 143 | 174 | 199 | 224 | 245 | 263 |
| COUNTY-OTHER | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER WARD COUNTY | 27 | 33 | 39 | 44 | 49 | 53 |
| MANUFACTURING | F | DOCKUM AQUIFER CRANE COUNTY | 80 | 80 | 80 | 80 | 80 | 80 |
| MANUFACTURING | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER CRANE COUNTY | 375 | 388 | 388 | 388 | 388 | 388 |
| MINING | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER CRANE COUNTY | 617 | 840 | 861 | 692 | 531 | 407 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 4 | 4 | 4 | 4 | 4 | 4 |
| LIVESTOCK | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER CRANE COUNTY | 68 | 68 | 68 | 68 | 68 | 68 |
| RIO GRANDE BASIN TOTAL | | | 2,575 | 2,926 | 3,040 | 2,967 | 2,890 | 2,838 |
| CRANE COUNTY TOTAL | | | 2,575 | 2,926 | 3,040 | 2,967 | 2,890 | 2,838 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 14 | 14 | 14 | 14 | 14 | 14 |
| IRRIGATION | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER CROCKETT COUNTY | 6 | 6 | 6 | 6 | 6 | 6 |

Region F Water User Group (WUG) Existing Water Supply

| WUG NAME | SOURCE REGION | SOURCE DESCRIPTION | EXISTING SUPPLY (ACRE-FEET PER YEAR) | | | | | |
|-------------------------------|---------------|--|--------------------------------------|--------------|--------------|--------------|--------------|--------------|
| | | | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| COLORADO BASIN TOTAL | | | 20 | 20 | 20 | 20 | 20 | 20 |
| CROCKETT COUNTY WCID 1 | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER CROCKETT COUNTY | 1,533 | 1,641 | 1,655 | 1,672 | 1,677 | 1,680 |
| COUNTY-OTHER | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER CROCKETT COUNTY | 27 | 20 | 18 | 17 | 17 | 17 |
| MANUFACTURING | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER CROCKETT COUNTY | 14 | 15 | 15 | 15 | 15 | 15 |
| MINING | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER CROCKETT COUNTY | 3,227 | 3,125 | 3,100 | 1,700 | 500 | 200 |
| LIVESTOCK | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER CROCKETT COUNTY | 497 | 497 | 497 | 497 | 497 | 497 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 16 | 16 | 16 | 16 | 16 | 16 |
| IRRIGATION | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER CROCKETT COUNTY | 129 | 129 | 129 | 129 | 129 | 129 |
| RIO GRANDE BASIN TOTAL | | | 5,443 | 5,443 | 5,430 | 4,046 | 2,851 | 2,554 |
| CROCKETT COUNTY TOTAL | | | 5,463 | 5,463 | 5,450 | 4,066 | 2,871 | 2,574 |
| ECTOR COUNTY UTILITY DISTRICT | F | COLORADO RIVER MWD LAKE/RESERVOIR SYSTEM | 579 | 811 | 814 | 811 | 803 | 788 |
| ECTOR COUNTY UTILITY DISTRICT | F | DIRECT REUSE | 73 | 106 | 110 | 114 | 117 | 119 |
| ECTOR COUNTY UTILITY DISTRICT | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER MARTIN COUNTY | 41 | 59 | 62 | 64 | 65 | 67 |
| ECTOR COUNTY UTILITY DISTRICT | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER WARD COUNTY | 368 | 539 | 559 | 577 | 593 | 604 |
| GREATER GARDENDALE WSC | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER ECTOR COUNTY | 211 | 125 | 63 | 31 | 31 | 31 |
| ODESSA | F | COLORADO RIVER MWD LAKE/RESERVOIR SYSTEM | 5,957 | 8,495 | 8,426 | 8,327 | 8,195 | 8,050 |
| ODESSA | F | DIRECT REUSE | 746 | 1,117 | 1,144 | 1,168 | 1,195 | 1,219 |
| ODESSA | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER MARTIN COUNTY | 417 | 620 | 638 | 653 | 665 | 680 |
| ODESSA | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER WARD COUNTY | 3,784 | 5,647 | 5,791 | 5,929 | 6,052 | 6,173 |
| COUNTY-OTHER | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER ECTOR COUNTY | 1,555 | 1,352 | 1,752 | 2,016 | 2,289 | 2,570 |
| COUNTY-OTHER | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER ANDREWS COUNTY | 64 | 61 | 58 | 52 | 48 | 44 |
| COUNTY-OTHER | F | OGALLALA AQUIFER ECTOR COUNTY | 428 | 677 | 700 | 700 | 700 | 700 |
| MANUFACTURING | F | COLORADO RIVER MWD LAKE/RESERVOIR SYSTEM | 462 | 598 | 541 | 489 | 441 | 396 |
| MANUFACTURING | F | DIRECT REUSE | 58 | 78 | 73 | 69 | 64 | 60 |
| MANUFACTURING | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER ECTOR COUNTY | 1,270 | 1,270 | 1,270 | 1,270 | 1,341 | 1,430 |
| MANUFACTURING | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER ANDREWS COUNTY | 231 | 220 | 209 | 189 | 173 | 158 |
| MANUFACTURING | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER MARTIN COUNTY | 32 | 44 | 41 | 38 | 36 | 33 |
| MANUFACTURING | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER WARD COUNTY | 293 | 398 | 372 | 348 | 326 | 304 |
| MINING | F | DIRECT REUSE | 2,164 | 2,102 | 2,181 | 2,297 | 2,397 | 2,461 |
| MINING | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER ANDREWS COUNTY | 47 | 45 | 43 | 39 | 35 | 32 |
| STEAM ELECTRIC POWER | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER ANDREWS COUNTY | 1,085 | 1,035 | 978 | 887 | 809 | 741 |
| STEAM ELECTRIC POWER | O | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER GAINES COUNTY | 3,687 | 3,687 | 3,687 | 3,687 | 3,687 | 3,687 |
| LIVESTOCK | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER ECTOR COUNTY | 134 | 134 | 134 | 134 | 134 | 134 |

Region F Water User Group (WUG) Existing Water Supply

| WUG NAME | SOURCE REGION | SOURCE DESCRIPTION | EXISTING SUPPLY (ACRE-FEET PER YEAR) | | | | | |
|-------------------------------|---------------|---|--------------------------------------|---------------|---------------|---------------|---------------|---------------|
| | | | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 25 | 25 | 25 | 25 | 25 | 25 |
| LIVESTOCK | F | OGALLALA AQUIFER ECTOR COUNTY | 10 | 10 | 10 | 10 | 10 | 10 |
| IRRIGATION | F | COLORADO RIVER MWD LAKE/RESERVOIR SYSTEM | 388 | 489 | 442 | 398 | 359 | 322 |
| IRRIGATION | F | DIRECT REUSE | 48 | 64 | 60 | 56 | 52 | 49 |
| IRRIGATION | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER ECTOR COUNTY | 80 | 80 | 80 | 80 | 80 | 80 |
| IRRIGATION | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER MARTIN COUNTY | 27 | 36 | 33 | 31 | 29 | 27 |
| IRRIGATION | F | OGALLALA AQUIFER ECTOR COUNTY | 37 | 37 | 37 | 37 | 37 | 37 |
| IRRIGATION | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER WARD COUNTY | 247 | 324 | 303 | 283 | 265 | 247 |
| COLORADO BASIN TOTAL | | | 24,548 | 30,285 | 30,636 | 30,809 | 31,053 | 31,278 |
| COUNTY-OTHER | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER ECTOR COUNTY | 114 | 116 | 140 | 154 | 169 | 185 |
| MINING | F | DIRECT REUSE | 452 | 514 | 435 | 319 | 219 | 155 |
| MINING | F | DOCKUM AQUIFER ECTOR COUNTY | 100 | 100 | 100 | 100 | 100 | 100 |
| MINING | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER ECTOR COUNTY | 100 | 100 | 100 | 100 | 100 | 100 |
| LIVESTOCK | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER ECTOR COUNTY | 30 | 30 | 30 | 30 | 30 | 30 |
| IRRIGATION | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER ECTOR COUNTY | 78 | 78 | 78 | 78 | 78 | 78 |
| RIO GRANDE BASIN TOTAL | | | 874 | 938 | 883 | 781 | 696 | 648 |
| ECTOR COUNTY TOTAL | | | 25,422 | 31,223 | 31,519 | 31,590 | 31,749 | 31,926 |
| COUNTY-OTHER | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER GLASSCOCK COUNTY | 161 | 165 | 160 | 160 | 159 | 159 |
| MANUFACTURING | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER GLASSCOCK COUNTY | 25 | 33 | 33 | 33 | 33 | 33 |
| MINING | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER GLASSCOCK COUNTY | 5,900 | 5,900 | 4,500 | 3,200 | 2,100 | 1,500 |
| LIVESTOCK | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER GLASSCOCK COUNTY | 85 | 85 | 85 | 85 | 85 | 85 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 38 | 38 | 38 | 38 | 38 | 38 |
| LIVESTOCK | F | OGALLALA AQUIFER GLASSCOCK COUNTY | 24 | 24 | 24 | 24 | 24 | 24 |
| IRRIGATION | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER GLASSCOCK COUNTY | 44,701 | 44,701 | 44,701 | 44,701 | 44,701 | 44,708 |
| IRRIGATION | F | OGALLALA AQUIFER GLASSCOCK COUNTY | 6,553 | 6,553 | 6,553 | 6,553 | 6,553 | 6,546 |
| COLORADO BASIN TOTAL | | | 57,487 | 57,499 | 56,094 | 54,794 | 53,693 | 53,093 |
| GLASSCOCK COUNTY TOTAL | | | 57,487 | 57,499 | 56,094 | 54,794 | 53,693 | 53,093 |
| BIG SPRING | F | COLORADO RIVER MWD LAKE/RESERVOIR SYSTEM | 1,513 | 1,952 | 1,769 | 1,584 | 1,427 | 1,283 |
| BIG SPRING | F | DIRECT REUSE | 190 | 256 | 240 | 223 | 208 | 194 |
| BIG SPRING | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER MARTIN COUNTY | 106 | 143 | 134 | 124 | 116 | 108 |
| BIG SPRING | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER WARD COUNTY | 960 | 1,297 | 1,216 | 1,128 | 1,053 | 984 |
| COAHOMA | F | COLORADO RIVER MWD LAKE/RESERVOIR SYSTEM | 128 | 164 | 149 | 134 | 121 | 109 |
| COAHOMA | F | DIRECT REUSE | 16 | 21 | 20 | 19 | 18 | 16 |
| COAHOMA | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER MARTIN COUNTY | 9 | 12 | 11 | 11 | 10 | 9 |
| COAHOMA | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER WARD COUNTY | 81 | 109 | 102 | 96 | 89 | 83 |
| COUNTY-OTHER | F | DOCKUM AQUIFER HOWARD COUNTY | 52 | 52 | 52 | 52 | 52 | 52 |
| COUNTY-OTHER | F | EDWARDS-TRINITY-PLATEAU AQUIFER HOWARD COUNTY | 100 | 100 | 100 | 100 | 100 | 100 |

Region F Water User Group (WUG) Existing Water Supply

| WUG NAME | SOURCE | SOURCE DESCRIPTION | EXISTING SUPPLY (ACRE-FEET PER YEAR) | | | | | |
|-----------------------------|--------|--|--------------------------------------|---------------|---------------|---------------|---------------|---------------|
| | REGION | | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| COUNTY-OTHER | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER HOWARD COUNTY | 500 | 498 | 494 | 492 | 490 | 490 |
| MANUFACTURING | F | COLORADO RIVER MWD LAKE/RESERVOIR SYSTEM | 364 | 460 | 416 | 376 | 339 | 305 |
| MANUFACTURING | F | DIRECT REUSE | 46 | 60 | 56 | 53 | 49 | 46 |
| MANUFACTURING | F | EDWARDS-TRINITY-PLATEAU AQUIFER HOWARD COUNTY | 110 | 110 | 110 | 110 | 110 | 110 |
| MANUFACTURING | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER HOWARD COUNTY | 2,113 | 2,136 | 2,136 | 2,136 | 2,136 | 2,136 |
| MANUFACTURING | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER MARTIN COUNTY | 25 | 34 | 31 | 29 | 28 | 26 |
| MANUFACTURING | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER WARD COUNTY | 231 | 306 | 286 | 267 | 250 | 234 |
| MINING | F | DOCKUM AQUIFER HOWARD COUNTY | 106 | 106 | 106 | 106 | 106 | 106 |
| MINING | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER HOWARD COUNTY | 3,294 | 3,294 | 2,294 | 1,294 | 494 | 194 |
| STEAM ELECTRIC POWER | F | COLORADO RIVER MWD LAKE/RESERVOIR SYSTEM | 51 | 64 | 58 | 52 | 47 | 42 |
| STEAM ELECTRIC POWER | F | DIRECT REUSE | 6 | 8 | 8 | 7 | 7 | 6 |
| STEAM ELECTRIC POWER | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER HOWARD COUNTY | 232 | 232 | 232 | 232 | 232 | 232 |
| STEAM ELECTRIC POWER | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER MARTIN COUNTY | 4 | 5 | 4 | 4 | 4 | 4 |
| STEAM ELECTRIC POWER | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER WARD COUNTY | 32 | 43 | 40 | 37 | 35 | 33 |
| LIVESTOCK | F | DOCKUM AQUIFER HOWARD COUNTY | 20 | 20 | 20 | 20 | 20 | 20 |
| LIVESTOCK | F | EDWARDS-TRINITY-PLATEAU AQUIFER HOWARD COUNTY | 40 | 40 | 40 | 40 | 40 | 40 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 39 | 39 | 39 | 39 | 39 | 39 |
| LIVESTOCK | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER HOWARD COUNTY | 170 | 170 | 170 | 170 | 170 | 170 |
| IRRIGATION | F | DOCKUM AQUIFER HOWARD COUNTY | 326 | 326 | 326 | 326 | 326 | 326 |
| IRRIGATION | F | EDWARDS-TRINITY-PLATEAU AQUIFER HOWARD COUNTY | 422 | 422 | 422 | 422 | 422 | 422 |
| IRRIGATION | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER HOWARD COUNTY | 6,135 | 6,135 | 6,135 | 6,135 | 6,135 | 6,135 |
| COLORADO BASIN TOTAL | | | 17,421 | 18,614 | 17,216 | 15,818 | 14,673 | 14,054 |
| HOWARD COUNTY TOTAL | | | 17,421 | 18,614 | 17,216 | 15,818 | 14,673 | 14,054 |
| MERTZON | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER IRION COUNTY | 101 | 99 | 96 | 94 | 94 | 94 |
| COUNTY-OTHER | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER IRION COUNTY | 104 | 101 | 98 | 97 | 97 | 97 |
| MANUFACTURING | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER IRION COUNTY | 6 | 7 | 7 | 7 | 7 | 7 |
| MINING | F | DOCKUM AQUIFER IRION COUNTY | 150 | 150 | 150 | 150 | 150 | 150 |
| MINING | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER IRION COUNTY | 2,578 | 2,582 | 2,588 | 1,837 | 837 | 337 |
| MINING | F | LIPAN AQUIFER IRION COUNTY | 13 | 13 | 13 | 13 | 13 | 13 |
| LIVESTOCK | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER IRION COUNTY | 175 | 175 | 175 | 175 | 175 | 175 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 57 | 57 | 57 | 57 | 57 | 57 |
| IRRIGATION | F | COLORADO RUN-OF-RIVER | 221 | 221 | 221 | 221 | 221 | 221 |
| IRRIGATION | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER IRION COUNTY | 325 | 325 | 325 | 325 | 325 | 325 |
| COLORADO BASIN TOTAL | | | 3,730 | 3,730 | 3,730 | 2,976 | 1,976 | 1,476 |
| IRION COUNTY TOTAL | | | 3,730 | 3,730 | 3,730 | 2,976 | 1,976 | 1,476 |
| JUNCTION | F | COLORADO RUN-OF-RIVER | 0 | 0 | 0 | 0 | 0 | 0 |
| COUNTY-OTHER | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER KIMBLE COUNTY | 234 | 228 | 221 | 217 | 216 | 216 |

Region F Water User Group (WUG) Existing Water Supply

| WUG NAME | SOURCE REGION | SOURCE DESCRIPTION | EXISTING SUPPLY (ACRE-FEET PER YEAR) | | | | | |
|-------------------------------|---------------|--|--------------------------------------|---------------|---------------|---------------|---------------|---------------|
| | | | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| COUNTY-OTHER | F | MARBLE FALLS AQUIFER KIMBLE COUNTY | 20 | 20 | 20 | 20 | 20 | 20 |
| MANUFACTURING | F | COLORADO RUN-OF-RIVER | 0 | 0 | 0 | 0 | 0 | 0 |
| MANUFACTURING | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER KIMBLE COUNTY | 2 | 2 | 2 | 2 | 2 | 2 |
| MINING | F | COLORADO RUN-OF-RIVER | 14 | 14 | 14 | 14 | 14 | 14 |
| MINING | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER KIMBLE COUNTY | 5 | 5 | 5 | 5 | 5 | 5 |
| LIVESTOCK | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER KIMBLE COUNTY | 182 | 182 | 182 | 182 | 182 | 182 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 138 | 138 | 138 | 138 | 138 | 138 |
| IRRIGATION | F | COLORADO RUN-OF-RIVER | 1,099 | 1,099 | 1,099 | 1,099 | 1,099 | 1,099 |
| IRRIGATION | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER KIMBLE COUNTY | 400 | 400 | 400 | 400 | 400 | 400 |
| IRRIGATION | F | HICKORY AQUIFER KIMBLE COUNTY | 55 | 55 | 55 | 55 | 55 | 55 |
| COLORADO BASIN TOTAL | | | 2,149 | 2,143 | 2,136 | 2,132 | 2,131 | 2,131 |
| KIMBLE COUNTY TOTAL | | | 2,149 | 2,143 | 2,136 | 2,132 | 2,131 | 2,131 |
| COUNTY-OTHER | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER LOVING COUNTY | 10 | 10 | 9 | 9 | 9 | 9 |
| MINING | F | DOCKUM AQUIFER LOVING COUNTY | 437 | 438 | 439 | 440 | 441 | 442 |
| MINING | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER LOVING COUNTY | 2,957 | 2,956 | 2,956 | 2,955 | 2,659 | 1,758 |
| MINING | F | RUSTLER AQUIFER LOVING COUNTY | 200 | 200 | 200 | 200 | 200 | 200 |
| LIVESTOCK | F | DOCKUM AQUIFER LOVING COUNTY | 16 | 15 | 14 | 13 | 12 | 11 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 1 | 1 | 1 | 1 | 1 | 1 |
| LIVESTOCK | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER LOVING COUNTY | 15 | 16 | 17 | 18 | 19 | 20 |
| RIO GRANDE BASIN TOTAL | | | 3,636 | 3,636 | 3,636 | 3,636 | 3,341 | 2,441 |
| LOVING COUNTY TOTAL | | | 3,636 | 3,636 | 3,636 | 3,636 | 3,341 | 2,441 |
| STANTON | F | COLORADO RIVER MWD LAKE/RESERVOIR SYSTEM | 78 | 98 | 89 | 80 | 72 | 65 |
| STANTON | F | DIRECT REUSE | 10 | 13 | 12 | 11 | 11 | 10 |
| STANTON | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER MARTIN COUNTY | 178 | 180 | 180 | 179 | 179 | 178 |
| STANTON | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER WARD COUNTY | 49 | 65 | 61 | 57 | 53 | 50 |
| COUNTY-OTHER | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER MARTIN COUNTY | 358 | 380 | 394 | 410 | 426 | 438 |
| MINING | F | DIRECT REUSE | 4,485 | 4,485 | 4,485 | 4,485 | 4,485 | 4,485 |
| MINING | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER MARTIN COUNTY | 2,715 | 2,715 | 915 | 0 | 0 | 0 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 47 | 47 | 47 | 47 | 47 | 47 |
| LIVESTOCK | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER MARTIN COUNTY | 72 | 72 | 72 | 72 | 72 | 72 |
| IRRIGATION | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER MARTIN COUNTY | 36,491 | 36,491 | 36,491 | 36,491 | 34,909 | 33,112 |
| COLORADO BASIN TOTAL | | | 44,483 | 44,546 | 42,746 | 41,832 | 40,254 | 38,457 |
| MARTIN COUNTY TOTAL | | | 44,483 | 44,546 | 42,746 | 41,832 | 40,254 | 38,457 |
| MASON | F | HICKORY AQUIFER MASON COUNTY | 0 | 0 | 0 | 0 | 0 | 0 |
| COUNTY-OTHER | F | ELLENBURGER-SAN SABA AQUIFER MASON COUNTY | 21 | 21 | 21 | 21 | 21 | 21 |
| COUNTY-OTHER | F | HICKORY AQUIFER MASON COUNTY | 170 | 163 | 157 | 154 | 153 | 153 |
| COUNTY-OTHER | F | OTHER AQUIFER MASON COUNTY | 40 | 40 | 40 | 40 | 40 | 40 |
| MINING | F | HICKORY AQUIFER MASON COUNTY | 1,023 | 941 | 708 | 568 | 460 | 372 |
| LIVESTOCK | F | ELLENBURGER-SAN SABA AQUIFER MASON COUNTY | 75 | 75 | 75 | 75 | 75 | 75 |

Region F Water User Group (WUG) Existing Water Supply

| WUG NAME | SOURCE REGION | SOURCE DESCRIPTION | EXISTING SUPPLY (ACRE-FEET PER YEAR) | | | | | |
|-------------------------------|---------------|---|--------------------------------------|---------------|---------------|--------------|--------------|--------------|
| | | | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| LIVESTOCK | F | HICKORY AQUIFER MASON COUNTY | 412 | 412 | 412 | 412 | 412 | 412 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 227 | 227 | 227 | 227 | 227 | 227 |
| IRRIGATION | F | HICKORY AQUIFER MASON COUNTY | 4,966 | 4,966 | 4,966 | 4,966 | 4,966 | 4,966 |
| COLORADO BASIN TOTAL | | | 6,934 | 6,845 | 6,606 | 6,463 | 6,354 | 6,266 |
| MASON COUNTY TOTAL | | | 6,934 | 6,845 | 6,606 | 6,463 | 6,354 | 6,266 |
| BRADY | F | BRADY CREEK LAKE/RESERVOIR | 0 | 0 | 0 | 0 | 0 | 0 |
| BRADY | F | HICKORY AQUIFER MCCULLOCH COUNTY | 0 | 0 | 0 | 0 | 0 | 0 |
| MILLERSVIEW-DOOLE WSC | F | HICKORY AQUIFER MCCULLOCH COUNTY | 48 | 48 | 48 | 47 | 47 | 46 |
| MILLERSVIEW-DOOLE WSC | F | OH IVIE LAKE/RESERVOIR NON-SYSTEM PORTION | 64 | 83 | 74 | 68 | 62 | 55 |
| RICHLAND SUD | K | ELLENBURGER-SAN SABA AQUIFER SAN SABA COUNTY | 156 | 156 | 156 | 158 | 156 | 155 |
| RICHLAND SUD | K | MARBLE FALLS AQUIFER SAN SABA COUNTY | 156 | 156 | 156 | 158 | 156 | 155 |
| COUNTY-OTHER | F | HICKORY AQUIFER MCCULLOCH COUNTY | 82 | 85 | 84 | 85 | 85 | 85 |
| COUNTY-OTHER | F | OTHER AQUIFER MCCULLOCH COUNTY | 50 | 50 | 50 | 50 | 50 | 50 |
| MANUFACTURING | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER MCCULLOCH COUNTY | 72 | 72 | 72 | 72 | 72 | 72 |
| MANUFACTURING | F | HICKORY AQUIFER MCCULLOCH COUNTY | 451 | 537 | 537 | 537 | 537 | 537 |
| MINING | F | ELLENBURGER-SAN SABA AQUIFER MCCULLOCH COUNTY | 4,210 | 4,174 | 3,321 | 2,814 | 2,418 | 2,101 |
| MINING | F | HICKORY AQUIFER MCCULLOCH COUNTY | 4,718 | 4,174 | 3,321 | 2,814 | 2,418 | 2,101 |
| LIVESTOCK | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER MCCULLOCH COUNTY | 3 | 3 | 3 | 3 | 3 | 3 |
| LIVESTOCK | F | ELLENBURGER-SAN SABA AQUIFER MCCULLOCH COUNTY | 154 | 154 | 154 | 154 | 154 | 154 |
| LIVESTOCK | F | HICKORY AQUIFER MCCULLOCH COUNTY | 206 | 206 | 206 | 206 | 206 | 206 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 235 | 235 | 235 | 235 | 235 | 235 |
| LIVESTOCK | F | OTHER AQUIFER MCCULLOCH COUNTY | 53 | 53 | 53 | 53 | 53 | 53 |
| IRRIGATION | F | COLORADO RUN-OF-RIVER | 69 | 69 | 69 | 69 | 69 | 69 |
| IRRIGATION | F | HICKORY AQUIFER MCCULLOCH COUNTY | 2,215 | 2,215 | 2,215 | 2,215 | 2,215 | 2,215 |
| IRRIGATION | F | MARBLE FALLS AQUIFER MCCULLOCH COUNTY | 40 | 40 | 40 | 40 | 40 | 40 |
| COLORADO BASIN TOTAL | | | 12,982 | 12,510 | 10,794 | 9,778 | 8,976 | 8,332 |
| MCCULLOCH COUNTY TOTAL | | | 12,982 | 12,510 | 10,794 | 9,778 | 8,976 | 8,332 |
| MENARD | F | COLORADO RUN-OF-RIVER | 139 | 139 | 139 | 139 | 139 | 139 |
| COUNTY-OTHER | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER MENARD COUNTY | 87 | 85 | 84 | 84 | 83 | 83 |
| COUNTY-OTHER | F | ELLENBURGER-SAN SABA AQUIFER MENARD COUNTY | 5 | 4 | 2 | 1 | 1 | 1 |
| MINING | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER MENARD COUNTY | 788 | 773 | 672 | 577 | 517 | 422 |
| MINING | F | ELLENBURGER-SAN SABA AQUIFER MENARD COUNTY | 298 | 298 | 280 | 250 | 200 | 200 |
| LIVESTOCK | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER MENARD COUNTY | 240 | 240 | 240 | 240 | 240 | 240 |
| LIVESTOCK | F | ELLENBURGER-SAN SABA AQUIFER MENARD COUNTY | 6 | 6 | 6 | 6 | 6 | 6 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 48 | 48 | 48 | 48 | 48 | 48 |
| IRRIGATION | F | COLORADO RUN-OF-RIVER | 1,951 | 1,951 | 1,951 | 1,951 | 1,951 | 1,951 |
| IRRIGATION | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER MENARD COUNTY | 468 | 468 | 468 | 468 | 468 | 468 |
| IRRIGATION | F | HICKORY AQUIFER MENARD COUNTY | 1,244 | 1,244 | 1,244 | 1,244 | 1,244 | 1,244 |
| COLORADO BASIN TOTAL | | | 5,274 | 5,256 | 5,134 | 5,008 | 4,897 | 4,802 |
| MENARD COUNTY TOTAL | | | 5,274 | 5,256 | 5,134 | 5,008 | 4,897 | 4,802 |
| AIRLINE MOBILE HOME PARK LTD | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER MIDLAND COUNTY | 171 | 177 | 189 | 205 | 221 | 238 |
| AIRLINE MOBILE HOME PARK LTD | F | OGALLALA AQUIFER MIDLAND COUNTY | 57 | 59 | 63 | 68 | 74 | 80 |

Region F Water User Group (WUG) Existing Water Supply

| WUG NAME | SOURCE REGION | SOURCE DESCRIPTION | EXISTING SUPPLY (ACRE-FEET PER YEAR) | | | | | |
|-----------------------------|---------------|---|--------------------------------------|---------------|---------------|---------------|---------------|---------------|
| | | | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| GREATER GARDENDALE WSC | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER ECTOR COUNTY | 108 | 66 | 33 | 17 | 17 | 17 |
| GREENWOOD WATER | F | OGALLALA AQUIFER MIDLAND COUNTY | 211 | 224 | 244 | 265 | 288 | 310 |
| MIDLAND | F | COLORADO RIVER MWD LAKE/RESERVOIR SYSTEM | 4,566 | 0 | 0 | 0 | 0 | 0 |
| MIDLAND | F | DIRECT REUSE | 572 | 0 | 0 | 0 | 0 | 0 |
| MIDLAND | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER MIDLAND COUNTY | 560 | 560 | 0 | 0 | 0 | 0 |
| MIDLAND | F | EV SPENCE LAKE/RESERVOIR NON-SYSTEM PORTION | 0 | 0 | 0 | 0 | 0 | 0 |
| MIDLAND | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER ANDREWS COUNTY | 1,167 | 1,113 | 0 | 0 | 0 | 0 |
| MIDLAND | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER MARTIN COUNTY | 3,804 | 3,485 | 0 | 0 | 0 | 0 |
| MIDLAND | F | OH IVIE LAKE/RESERVOIR NON-SYSTEM PORTION | 4,873 | 4,673 | 4,502 | 4,332 | 4,161 | 3,991 |
| MIDLAND | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER WARD COUNTY | 2,899 | 0 | 0 | 0 | 0 | 0 |
| MIDLAND | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER WINKLER COUNTY | 11,200 | 11,200 | 11,200 | 11,200 | 11,200 | 11,200 |
| ODESSA | F | COLORADO RIVER MWD LAKE/RESERVOIR SYSTEM | 117 | 185 | 197 | 205 | 209 | 211 |
| ODESSA | F | DIRECT REUSE | 15 | 24 | 27 | 29 | 30 | 32 |
| ODESSA | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER MARTIN COUNTY | 8 | 14 | 15 | 16 | 17 | 18 |
| ODESSA | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER WARD COUNTY | 74 | 123 | 135 | 146 | 154 | 162 |
| COUNTY-OTHER | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER MIDLAND COUNTY | 2,342 | 2,524 | 2,656 | 2,916 | 3,198 | 3,470 |
| COUNTY-OTHER | F | OGALLALA AQUIFER MIDLAND COUNTY | 911 | 982 | 1,033 | 1,134 | 1,243 | 1,349 |
| MANUFACTURING | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER MIDLAND COUNTY | 196 | 235 | 235 | 235 | 235 | 235 |
| MANUFACTURING | F | OGALLALA AQUIFER MIDLAND COUNTY | 638 | 765 | 765 | 765 | 765 | 765 |
| MANUFACTURING | F | OH IVIE LAKE/RESERVOIR NON-SYSTEM PORTION | 147 | 177 | 177 | 177 | 177 | 177 |
| MINING | F | DIRECT REUSE | 2,803 | 2,803 | 2,803 | 2,803 | 2,803 | 2,803 |
| MINING | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER MIDLAND COUNTY | 6,597 | 6,597 | 4,397 | 1,897 | 0 | 0 |
| MINING | F | OGALLALA AQUIFER MIDLAND COUNTY | 1,200 | 1,200 | 1,000 | 800 | 500 | 300 |
| LIVESTOCK | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER MIDLAND COUNTY | 96 | 96 | 96 | 96 | 96 | 96 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 3 | 3 | 3 | 3 | 3 | 3 |
| LIVESTOCK | F | OGALLALA AQUIFER MIDLAND COUNTY | 144 | 144 | 144 | 144 | 144 | 144 |
| IRRIGATION | F | COLORADO RIVER MWD LAKE/RESERVOIR SYSTEM | 6 | 8 | 8 | 7 | 7 | 6 |
| IRRIGATION | F | DIRECT REUSE | 1 | 1 | 1 | 1 | 1 | 1 |
| IRRIGATION | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER MIDLAND COUNTY | 6,881 | 6,881 | 6,881 | 6,881 | 6,881 | 6,881 |
| IRRIGATION | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER MARTIN COUNTY | 0 | 1 | 1 | 1 | 1 | 1 |
| IRRIGATION | F | OGALLALA AQUIFER MIDLAND COUNTY | 11,215 | 11,211 | 11,211 | 11,212 | 11,212 | 11,213 |
| IRRIGATION | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER WARD COUNTY | 4 | 5 | 5 | 5 | 5 | 5 |
| COLORADO BASIN TOTAL | | | 63,586 | 55,536 | 48,021 | 45,560 | 43,642 | 43,708 |
| MIDLAND COUNTY TOTAL | | | 63,586 | 55,536 | 48,021 | 45,560 | 43,642 | 43,708 |
| COLORADO CITY | F | DOCKUM AQUIFER MITCHELL COUNTY | 1,308 | 1,307 | 1,307 | 1,307 | 1,307 | 1,307 |
| LORAIN | F | DOCKUM AQUIFER MITCHELL COUNTY | 76 | 75 | 74 | 74 | 75 | 75 |
| MITCHELL COUNTY UTILITY | F | DOCKUM AQUIFER MITCHELL COUNTY | 210 | 217 | 215 | 217 | 218 | 220 |
| COUNTY-OTHER | F | DOCKUM AQUIFER MITCHELL COUNTY | 545 | 538 | 541 | 544 | 549 | 553 |

Region F Water User Group (WUG) Existing Water Supply

| WUG NAME | SOURCE REGION | SOURCE DESCRIPTION | EXISTING SUPPLY (ACRE-FEET PER YEAR) | | | | | |
|-------------------------------|---------------|--|--------------------------------------|----------------|----------------|----------------|----------------|----------------|
| | | | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| MANUFACTURING | F | DOCKUM AQUIFER MITCHELL COUNTY | 4 | 5 | 5 | 5 | 5 | 5 |
| MINING | F | DOCKUM AQUIFER MITCHELL COUNTY | 593 | 738 | 632 | 493 | 375 | 290 |
| STEAM ELECTRIC POWER | F | COLORADO CITY-CHAMPION LAKE/RESERVOIR SYSTEM | 0 | 0 | 0 | 0 | 0 | 0 |
| LIVESTOCK | F | DOCKUM AQUIFER MITCHELL COUNTY | 48 | 48 | 48 | 48 | 48 | 48 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 308 | 308 | 308 | 308 | 308 | 308 |
| LIVESTOCK | F | OTHER AQUIFER MITCHELL COUNTY | 20 | 20 | 20 | 20 | 20 | 20 |
| IRRIGATION | F | COLORADO RUN-OF-RIVER | 14 | 14 | 14 | 14 | 14 | 14 |
| IRRIGATION | F | DOCKUM AQUIFER MITCHELL COUNTY | 11,189 | 10,915 | 11,010 | 11,128 | 11,207 | 11,291 |
| COLORADO BASIN TOTAL | | | 14,315 | 14,185 | 14,174 | 14,158 | 14,126 | 14,131 |
| MITCHELL COUNTY TOTAL | | | 14,315 | 14,185 | 14,174 | 14,158 | 14,126 | 14,131 |
| FORT STOCKTON | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER PECOS COUNTY | 4,841 | 5,172 | 5,548 | 5,813 | 6,067 | 6,300 |
| IRAAN | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER PECOS COUNTY | 458 | 485 | 513 | 540 | 567 | 591 |
| PECOS COUNTY FRESH WATER | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER PECOS COUNTY | 201 | 212 | 223 | 235 | 247 | 257 |
| PECOS COUNTY WCID 1 | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER PECOS COUNTY | 384 | 398 | 415 | 433 | 453 | 472 |
| COUNTY-OTHER | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER PECOS COUNTY | 110 | 127 | 147 | 165 | 182 | 197 |
| MANUFACTURING | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER PECOS COUNTY | 252 | 272 | 272 | 272 | 272 | 272 |
| MINING | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER PECOS COUNTY | 3,700 | 3,700 | 3,700 | 2,200 | 4,800 | 3,700 |
| MINING | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER PECOS COUNTY | 500 | 500 | 500 | 500 | 500 | 500 |
| LIVESTOCK | F | CAPITAN REEF COMPLEX AQUIFER PECOS COUNTY | 12 | 12 | 12 | 12 | 12 | 12 |
| LIVESTOCK | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER PECOS COUNTY | 621 | 621 | 621 | 621 | 621 | 621 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 37 | 37 | 37 | 37 | 37 | 37 |
| LIVESTOCK | F | OTHER AQUIFER PECOS COUNTY | 5 | 5 | 5 | 5 | 5 | 5 |
| LIVESTOCK | F | RUSTLER AQUIFER PECOS COUNTY | 12 | 12 | 12 | 12 | 12 | 12 |
| IRRIGATION | F | CAPITAN REEF COMPLEX AQUIFER PECOS COUNTY | 1,787 | 1,787 | 1,787 | 1,787 | 1,787 | 1,787 |
| IRRIGATION | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER PECOS COUNTY | 58,938 | 58,941 | 58,944 | 58,946 | 58,949 | 58,952 |
| IRRIGATION | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER PECOS COUNTY | 58,937 | 58,940 | 58,943 | 58,946 | 58,949 | 58,952 |
| IRRIGATION | F | RED BLUFF LAKE/RESERVOIR | 2,504 | 2,498 | 2,492 | 2,487 | 2,481 | 2,475 |
| IRRIGATION | F | RIO GRANDE RUN-OF-RIVER | 18,672 | 18,672 | 18,672 | 18,672 | 18,672 | 18,672 |
| IRRIGATION | F | RUSTLER AQUIFER PECOS COUNTY | 2,507 | 2,507 | 2,507 | 2,507 | 2,507 | 2,507 |
| RIO GRANDE BASIN TOTAL | | | 154,478 | 154,898 | 155,350 | 154,190 | 157,120 | 156,321 |
| PECOS COUNTY TOTAL | | | 154,478 | 154,898 | 155,350 | 154,190 | 157,120 | 156,321 |
| BIG LAKE | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER REAGAN COUNTY | 730 | 795 | 834 | 877 | 906 | 928 |
| COUNTY-OTHER | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER REAGAN COUNTY | 70 | 76 | 79 | 82 | 85 | 87 |
| MINING | F | DIRECT REUSE | 3,742 | 3,742 | 3,946 | 4,177 | 4,366 | 4,443 |
| MINING | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER REAGAN COUNTY | 6,115 | 6,115 | 3,215 | 0 | 0 | 0 |
| LIVESTOCK | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER REAGAN COUNTY | 115 | 115 | 115 | 115 | 115 | 115 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 60 | 60 | 60 | 60 | 60 | 60 |
| IRRIGATION | F | DOCKUM AQUIFER REAGAN COUNTY | 71 | 71 | 71 | 71 | 71 | 71 |

Region F Water User Group (WUG) Existing Water Supply

| WUG NAME | SOURCE REGION | SOURCE DESCRIPTION | EXISTING SUPPLY (ACRE-FEET PER YEAR) | | | | | |
|-------------------------------|---------------|--|--------------------------------------|---------------|---------------|---------------|---------------|---------------|
| | | | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| IRRIGATION | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER REAGAN COUNTY | 21,960 | 21,960 | 21,960 | 21,960 | 21,960 | 21,960 |
| COLORADO BASIN TOTAL | | | 32,863 | 32,934 | 30,280 | 27,342 | 27,563 | 27,664 |
| MINING | F | DIRECT REUSE | 743 | 743 | 539 | 308 | 119 | 42 |
| LIVESTOCK | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER REAGAN COUNTY | 8 | 8 | 8 | 8 | 8 | 8 |
| RIO GRANDE BASIN TOTAL | | | 751 | 751 | 547 | 316 | 127 | 50 |
| REAGAN COUNTY TOTAL | | | 33,614 | 33,685 | 30,827 | 27,658 | 27,690 | 27,714 |
| BALMORHEA | E | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER JEFF DAVIS COUNTY | 96 | 96 | 96 | 96 | 96 | 96 |
| MADERA VALLEY WSC | E | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER JEFF DAVIS COUNTY | 60 | 60 | 60 | 60 | 60 | 60 |
| MADERA VALLEY WSC | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER REEVES COUNTY | 386 | 408 | 429 | 446 | 458 | 468 |
| PECOS | F | DOCKUM AQUIFER REEVES COUNTY | 1,155 | 1,310 | 1,463 | 1,574 | 1,660 | 1,725 |
| PECOS | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER WARD COUNTY | 1,880 | 1,880 | 1,880 | 1,880 | 1,880 | 1,880 |
| COUNTY-OTHER | E | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER JEFF DAVIS COUNTY | 40 | 40 | 40 | 40 | 40 | 40 |
| COUNTY-OTHER | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER REEVES COUNTY | 492 | 521 | 546 | 563 | 577 | 588 |
| MANUFACTURING | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER REEVES COUNTY | 286 | 305 | 305 | 305 | 305 | 305 |
| MINING | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER REEVES COUNTY | 2,200 | 2,200 | 2,200 | 2,200 | 2,200 | 2,200 |
| LIVESTOCK | F | DOCKUM AQUIFER REEVES COUNTY | 18 | 18 | 18 | 18 | 18 | 18 |
| LIVESTOCK | F | IGNEOUS AQUIFER REEVES COUNTY | 16 | 16 | 16 | 16 | 16 | 16 |
| LIVESTOCK | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER REEVES COUNTY | 334 | 334 | 334 | 334 | 334 | 334 |
| IRRIGATION | F | BALMORHEA LAKE/RESERVOIR | 18,800 | 18,800 | 18,800 | 18,800 | 18,800 | 18,800 |
| IRRIGATION | F | IGNEOUS AQUIFER REEVES COUNTY | 219 | 219 | 219 | 219 | 219 | 219 |
| IRRIGATION | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER REEVES COUNTY | 34,874 | 34,880 | 34,886 | 34,891 | 34,897 | 34,903 |
| IRRIGATION | F | RED BLUFF LAKE/RESERVOIR | 2,504 | 2,498 | 2,492 | 2,487 | 2,481 | 2,475 |
| IRRIGATION | F | RIO GRANDE RUN-OF-RIVER | 573 | 573 | 573 | 573 | 573 | 573 |
| IRRIGATION | F | RUSTLER AQUIFER REEVES COUNTY | 1,967 | 1,967 | 1,967 | 1,967 | 1,967 | 1,967 |
| RIO GRANDE BASIN TOTAL | | | 65,900 | 66,125 | 66,324 | 66,469 | 66,581 | 66,667 |
| REEVES COUNTY TOTAL | | | 65,900 | 66,125 | 66,324 | 66,469 | 66,581 | 66,667 |
| BALLINGER | F | BALLINGER/MOONEN LAKE/RESERVOIR | 0 | 0 | 0 | 0 | 0 | 0 |
| BALLINGER | F | OH IVIE LAKE/RESERVOIR NON-SYSTEM PORTION | 143 | 187 | 171 | 157 | 143 | 130 |
| COLEMAN COUNTY SUD | F | BROWNWOOD LAKE/RESERVOIR | 10 | 10 | 10 | 10 | 10 | 10 |
| COLEMAN COUNTY SUD | F | COLEMAN LAKE/RESERVOIR | 0 | 0 | 0 | 0 | 0 | 0 |
| COLEMAN COUNTY SUD | F | HORDS CREEK LAKE/RESERVOIR | 0 | 0 | 0 | 0 | 0 | 0 |
| MILES | F | HICKORY AQUIFER MCCULLOCH COUNTY | 52 | 69 | 65 | 62 | 58 | 54 |
| MILES | F | LIPAN AQUIFER RUNNELS COUNTY | 18 | 17 | 17 | 17 | 17 | 17 |
| MILES | F | OH IVIE LAKE/RESERVOIR NON-SYSTEM PORTION | 41 | 39 | 35 | 32 | 29 | 27 |
| MILLERSVIEW-DOOLE WSC | F | HICKORY AQUIFER MCCULLOCH COUNTY | 35 | 34 | 33 | 33 | 32 | 32 |
| MILLERSVIEW-DOOLE WSC | F | OH IVIE LAKE/RESERVOIR NON-SYSTEM PORTION | 47 | 58 | 52 | 47 | 42 | 38 |
| NORTH RUNNELS WSC | F | OH IVIE LAKE/RESERVOIR NON-SYSTEM PORTION | 3 | 5 | 4 | 4 | 4 | 3 |
| NORTH RUNNELS WSC | F | WINTERS LAKE/RESERVOIR | 0 | 0 | 0 | 0 | 0 | 0 |
| WINTERS | F | WINTERS LAKE/RESERVOIR | 0 | 0 | 0 | 0 | 0 | 0 |
| COUNTY-OTHER | F | OH IVIE LAKE/RESERVOIR NON-SYSTEM PORTION | 9 | 12 | 10 | 9 | 8 | 7 |

Region F Water User Group (WUG) Existing Water Supply

| WUG NAME | SOURCE REGION | SOURCE DESCRIPTION | EXISTING SUPPLY (ACRE-FEET PER YEAR) | | | | | |
|--------------------------------|---------------|--|--------------------------------------|--------------|--------------|--------------|--------------|--------------|
| | | | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| COUNTY-OTHER | F | OTHER AQUIFER RUNNELS COUNTY | 34 | 33 | 31 | 31 | 30 | 30 |
| MANUFACTURING | F | LIPAN AQUIFER RUNNELS COUNTY | 1 | 2 | 2 | 2 | 2 | 2 |
| MANUFACTURING | F | OH IVIE LAKE/RESERVOIR NON-SYSTEM PORTION | 9 | 9 | 9 | 9 | 9 | 9 |
| MINING | F | OTHER AQUIFER RUNNELS COUNTY | 272 | 269 | 240 | 210 | 184 | 161 |
| LIVESTOCK | F | LIPAN AQUIFER RUNNELS COUNTY | 26 | 26 | 26 | 26 | 26 | 26 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 475 | 475 | 475 | 475 | 475 | 475 |
| LIVESTOCK | F | OTHER AQUIFER RUNNELS COUNTY | 204 | 204 | 204 | 204 | 204 | 204 |
| IRRIGATION | F | COLORADO RUN-OF-RIVER | 197 | 197 | 197 | 197 | 197 | 197 |
| IRRIGATION | F | DIRECT REUSE | 22 | 22 | 22 | 22 | 22 | 22 |
| IRRIGATION | F | OTHER AQUIFER RUNNELS COUNTY | 2,886 | 2,886 | 2,886 | 2,886 | 2,886 | 2,886 |
| COLORADO BASIN TOTAL | | | 4,484 | 4,554 | 4,489 | 4,433 | 4,378 | 4,330 |
| RUNNELS COUNTY TOTAL | | | 4,484 | 4,554 | 4,489 | 4,433 | 4,378 | 4,330 |
| ELDORADO | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER SCHLEICHER COUNTY | 662 | 652 | 643 | 639 | 638 | 638 |
| COUNTY-OTHER | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER SCHLEICHER COUNTY | 216 | 247 | 262 | 272 | 278 | 281 |
| MINING | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER SCHLEICHER COUNTY | 460 | 542 | 416 | 290 | 179 | 110 |
| LIVESTOCK | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER SCHLEICHER COUNTY | 276 | 276 | 276 | 276 | 276 | 276 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 17 | 17 | 17 | 17 | 17 | 17 |
| IRRIGATION | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER SCHLEICHER COUNTY | 1,160 | 1,160 | 1,160 | 1,160 | 1,160 | 1,160 |
| COLORADO BASIN TOTAL | | | 2,791 | 2,894 | 2,774 | 2,654 | 2,548 | 2,482 |
| COUNTY-OTHER | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER SCHLEICHER COUNTY | 31 | 35 | 37 | 38 | 39 | 40 |
| MINING | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER SCHLEICHER COUNTY | 161 | 190 | 146 | 102 | 62 | 38 |
| LIVESTOCK | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER SCHLEICHER COUNTY | 90 | 90 | 90 | 90 | 90 | 90 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 6 | 6 | 6 | 6 | 6 | 6 |
| IRRIGATION | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER SCHLEICHER COUNTY | 651 | 651 | 651 | 651 | 651 | 651 |
| RIO GRANDE BASIN TOTAL | | | 939 | 972 | 930 | 887 | 848 | 825 |
| SCHLEICHER COUNTY TOTAL | | | 3,730 | 3,866 | 3,704 | 3,541 | 3,396 | 3,307 |
| COUNTY-OTHER | F | DOCKUM AQUIFER SCURRY COUNTY | 46 | 47 | 48 | 52 | 56 | 59 |
| MINING | F | DOCKUM AQUIFER SCURRY COUNTY | 11 | 18 | 19 | 14 | 10 | 7 |
| LIVESTOCK | F | DOCKUM AQUIFER SCURRY COUNTY | 1 | 1 | 1 | 1 | 1 | 1 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 88 | 88 | 88 | 88 | 88 | 88 |
| LIVESTOCK | F | OTHER AQUIFER SCURRY COUNTY | 3 | 3 | 3 | 3 | 3 | 3 |
| IRRIGATION | F | DOCKUM AQUIFER SCURRY COUNTY | 248 | 240 | 238 | 239 | 239 | 239 |
| BRAZOS BASIN TOTAL | | | 397 | 397 | 397 | 397 | 397 | 397 |
| SNYDER | F | COLORADO RIVER MWD LAKE/RESERVOIR SYSTEM | 481 | 675 | 643 | 626 | 607 | 585 |
| SNYDER | F | DIRECT REUSE | 60 | 88 | 87 | 88 | 88 | 89 |
| SNYDER | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER MARTIN COUNTY | 34 | 49 | 49 | 49 | 49 | 49 |
| SNYDER | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER WARD COUNTY | 305 | 448 | 442 | 445 | 448 | 449 |
| COUNTY-OTHER | F | COLORADO RIVER MWD LAKE/RESERVOIR SYSTEM | 73 | 92 | 83 | 75 | 68 | 61 |
| COUNTY-OTHER | F | DIRECT REUSE | 9 | 12 | 11 | 11 | 10 | 9 |
| COUNTY-OTHER | F | DOCKUM AQUIFER SCURRY COUNTY | 67 | 63 | 69 | 78 | 87 | 97 |

Region F Water User Group (WUG) Existing Water Supply

| WUG NAME | SOURCE REGION | SOURCE DESCRIPTION | EXISTING SUPPLY (ACRE-FEET PER YEAR) | | | | | |
|-------------------------------|---------------|--|--------------------------------------|--------------|--------------|--------------|--------------|--------------|
| | | | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| COUNTY-OTHER | F | OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER MARTIN COUNTY | 5 | 7 | 6 | 6 | 6 | 5 |
| COUNTY-OTHER | F | OTHER AQUIFER SCURRY COUNTY | 22 | 22 | 22 | 22 | 22 | 22 |
| COUNTY-OTHER | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER WARD COUNTY | 46 | 61 | 57 | 53 | 50 | 47 |
| MANUFACTURING | F | DOCKUM AQUIFER SCURRY COUNTY | 26 | 30 | 30 | 30 | 30 | 30 |
| MINING | F | DOCKUM AQUIFER SCURRY COUNTY | 27 | 43 | 45 | 34 | 23 | 16 |
| LIVESTOCK | F | DOCKUM AQUIFER SCURRY COUNTY | 3 | 3 | 3 | 3 | 3 | 3 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 352 | 352 | 352 | 352 | 352 | 352 |
| LIVESTOCK | F | OTHER AQUIFER SCURRY COUNTY | 14 | 14 | 14 | 14 | 14 | 14 |
| IRRIGATION | F | COLORADO RUN-OF-RIVER | 0 | 0 | 0 | 0 | 0 | 0 |
| IRRIGATION | F | DOCKUM AQUIFER SCURRY COUNTY | 780 | 764 | 756 | 758 | 760 | 757 |
| COLORADO BASIN TOTAL | | | 2,304 | 2,723 | 2,669 | 2,644 | 2,617 | 2,585 |
| SCURRY COUNTY TOTAL | | | 2,701 | 3,120 | 3,066 | 3,041 | 3,014 | 2,982 |
| STERLING CITY | F | LIPAN AQUIFER STERLING COUNTY | 276 | 281 | 281 | 280 | 280 | 280 |
| COUNTY-OTHER | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER STERLING COUNTY | 32 | 32 | 32 | 32 | 32 | 32 |
| MINING | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER STERLING COUNTY | 780 | 953 | 812 | 522 | 270 | 140 |
| LIVESTOCK | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER STERLING COUNTY | 209 | 209 | 209 | 209 | 209 | 209 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 25 | 25 | 25 | 25 | 25 | 25 |
| IRRIGATION | F | COLORADO RUN-OF-RIVER | 30 | 30 | 30 | 30 | 30 | 30 |
| IRRIGATION | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER STERLING COUNTY | 869 | 869 | 869 | 869 | 869 | 869 |
| COLORADO BASIN TOTAL | | | 2,221 | 2,399 | 2,258 | 1,967 | 1,715 | 1,585 |
| STERLING COUNTY TOTAL | | | 2,221 | 2,399 | 2,258 | 1,967 | 1,715 | 1,585 |
| COUNTY-OTHER | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER SUTTON COUNTY | 26 | 27 | 27 | 28 | 28 | 28 |
| MANUFACTURING | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER SUTTON COUNTY | 3 | 3 | 3 | 3 | 3 | 3 |
| MINING | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER SUTTON COUNTY | 89 | 144 | 152 | 114 | 78 | 53 |
| LIVESTOCK | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER SUTTON COUNTY | 26 | 26 | 26 | 26 | 26 | 26 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 172 | 172 | 172 | 172 | 172 | 172 |
| IRRIGATION | F | COLORADO RUN-OF-RIVER | 2 | 2 | 2 | 2 | 2 | 2 |
| IRRIGATION | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER SUTTON COUNTY | 177 | 177 | 177 | 177 | 177 | 177 |
| COLORADO BASIN TOTAL | | | 495 | 551 | 559 | 522 | 486 | 461 |
| SONORA | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER SUTTON COUNTY | 1,045 | 1,105 | 1,123 | 1,139 | 1,150 | 1,156 |
| COUNTY-OTHER | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER SUTTON COUNTY | 115 | 119 | 119 | 120 | 121 | 122 |
| MINING | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER SUTTON COUNTY | 357 | 576 | 611 | 459 | 311 | 211 |
| LIVESTOCK | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER SUTTON COUNTY | 32 | 32 | 32 | 32 | 32 | 32 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 214 | 214 | 214 | 214 | 214 | 214 |
| IRRIGATION | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER SUTTON COUNTY | 941 | 941 | 941 | 941 | 941 | 941 |
| RIO GRANDE BASIN TOTAL | | | 2,704 | 2,987 | 3,040 | 2,905 | 2,769 | 2,676 |
| SUTTON COUNTY TOTAL | | | 3,199 | 3,538 | 3,599 | 3,427 | 3,255 | 3,137 |

Region F Water User Group (WUG) Existing Water Supply

| WUG NAME | SOURCE | SOURCE DESCRIPTION | EXISTING SUPPLY (ACRE-FEET PER YEAR) | | | | | |
|-------------------------------|--------|---|--------------------------------------|---------------|---------------|---------------|---------------|---------------|
| | REGION | | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| CONCHO RURAL WATER | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER TOM GREEN COUNTY | 90 | 90 | 90 | 90 | 90 | 90 |
| CONCHO RURAL WATER | F | HICKORY AQUIFER MCCULLOCH COUNTY | 70 | 82 | 80 | 76 | 72 | 68 |
| CONCHO RURAL WATER | F | LIPAN AQUIFER TOM GREEN COUNTY | 510 | 526 | 538 | 554 | 574 | 596 |
| CONCHO RURAL WATER | F | MOUNTAIN CREEK LAKE/RESERVOIR | 0 | 0 | 0 | 0 | 0 | 0 |
| CONCHO RURAL WATER | F | OH IVIE LAKE/RESERVOIR NON-SYSTEM PORTION | 54 | 46 | 44 | 40 | 37 | 33 |
| DADS Supported Living Center | F | LIPAN AQUIFER TOM GREEN COUNTY | 109 | 108 | 108 | 107 | 107 | 107 |
| GOODFELLOW AIR FORCE BASE | F | HICKORY AQUIFER MCCULLOCH COUNTY | 178 | 241 | 242 | 243 | 244 | 243 |
| GOODFELLOW AIR FORCE BASE | F | OH IVIE LAKE/RESERVOIR NON-SYSTEM PORTION | 139 | 136 | 132 | 128 | 124 | 119 |
| MILLERSVIEW-DOOLE WSC | F | HICKORY AQUIFER MCCULLOCH COUNTY | 86 | 88 | 90 | 91 | 93 | 94 |
| MILLERSVIEW-DOOLE WSC | F | OH IVIE LAKE/RESERVOIR NON-SYSTEM PORTION | 113 | 150 | 140 | 132 | 123 | 113 |
| SAN ANGELO | F | COLORADO RUN-OF-RIVER | 214 | 214 | 214 | 214 | 214 | 214 |
| SAN ANGELO | F | HICKORY AQUIFER MCCULLOCH COUNTY | 6,202 | 8,305 | 8,319 | 8,337 | 8,358 | 8,379 |
| SAN ANGELO | F | OH IVIE LAKE/RESERVOIR NON-SYSTEM PORTION | 4,631 | 4,480 | 4,329 | 4,181 | 4,032 | 3,884 |
| SAN ANGELO | F | SAN ANGELO LAKES LAKE/RESERVOIR SYSTEM | 0 | 0 | 0 | 0 | 0 | 0 |
| TOM GREEN COUNTY FWSD 3 | F | LIPAN AQUIFER TOM GREEN COUNTY | 131 | 142 | 147 | 154 | 162 | 172 |
| COUNTY-OTHER | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER TOM GREEN COUNTY | 594 | 594 | 594 | 594 | 594 | 594 |
| COUNTY-OTHER | F | HICKORY AQUIFER MCCULLOCH COUNTY | 47 | 54 | 53 | 51 | 48 | 45 |
| COUNTY-OTHER | F | LIPAN AQUIFER TOM GREEN COUNTY | 500 | 500 | 500 | 500 | 500 | 500 |
| COUNTY-OTHER | F | MOUNTAIN CREEK LAKE/RESERVOIR | 0 | 0 | 0 | 0 | 0 | 0 |
| COUNTY-OTHER | F | OH IVIE LAKE/RESERVOIR NON-SYSTEM PORTION | 36 | 31 | 29 | 27 | 25 | 22 |
| MANUFACTURING | F | HICKORY AQUIFER MCCULLOCH COUNTY | 147 | 203 | 196 | 186 | 175 | 166 |
| MANUFACTURING | F | LIPAN AQUIFER TOM GREEN COUNTY | 500 | 500 | 500 | 500 | 500 | 500 |
| MANUFACTURING | F | OH IVIE LAKE/RESERVOIR NON-SYSTEM PORTION | 115 | 115 | 107 | 98 | 89 | 81 |
| MINING | F | HICKORY AQUIFER MCCULLOCH COUNTY | 4 | 6 | 5 | 5 | 5 | 5 |
| MINING | F | LIPAN AQUIFER TOM GREEN COUNTY | 1,048 | 1,071 | 1,111 | 1,104 | 1,127 | 1,149 |
| MINING | F | MOUNTAIN CREEK LAKE/RESERVOIR | 0 | 0 | 0 | 0 | 0 | 0 |
| MINING | F | OH IVIE LAKE/RESERVOIR NON-SYSTEM PORTION | 4 | 3 | 3 | 3 | 2 | 2 |
| LIVESTOCK | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER TOM GREEN COUNTY | 562 | 562 | 562 | 562 | 562 | 562 |
| LIVESTOCK | F | LIPAN AQUIFER TOM GREEN COUNTY | 246 | 246 | 246 | 246 | 246 | 246 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 317 | 317 | 317 | 317 | 317 | 317 |
| IRRIGATION | F | COLORADO RUN-OF-RIVER | 1,755 | 1,755 | 1,755 | 1,755 | 1,755 | 1,755 |
| IRRIGATION | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER TOM GREEN COUNTY | 772 | 772 | 772 | 772 | 772 | 772 |
| IRRIGATION | F | LIPAN AQUIFER TOM GREEN COUNTY | 40,524 | 40,475 | 40,418 | 40,403 | 40,352 | 40,298 |
| COLORADO BASIN TOTAL | | | 59,698 | 61,812 | 61,641 | 61,470 | 61,299 | 61,126 |
| TOM GREEN COUNTY TOTAL | | | 59,698 | 61,812 | 61,641 | 61,470 | 61,299 | 61,126 |
| COUNTY-OTHER | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER UPTON COUNTY | 28 | 30 | 30 | 30 | 31 | 31 |
| MANUFACTURING | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER UPTON COUNTY | 182 | 205 | 205 | 205 | 205 | 205 |
| MINING | F | DIRECT REUSE | 2,709 | 2,709 | 2,709 | 2,709 | 2,709 | 2,709 |
| MINING | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER UPTON COUNTY | 1,000 | 1,000 | 500 | 150 | 100 | 100 |
| LIVESTOCK | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER UPTON COUNTY | 48 | 48 | 48 | 48 | 48 | 48 |
| IRRIGATION | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER UPTON COUNTY | 10,195 | 10,195 | 10,195 | 10,195 | 10,195 | 10,195 |
| COLORADO BASIN TOTAL | | | 14,162 | 14,187 | 13,687 | 13,337 | 13,288 | 13,288 |

Region F Water User Group (WUG) Existing Water Supply

| WUG NAME | SOURCE | SOURCE DESCRIPTION | EXISTING SUPPLY (ACRE-FEET PER YEAR) | | | | | |
|-------------------------------|--------|---|--------------------------------------|---------------|---------------|---------------|---------------|---------------|
| | REGION | | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| MCCAMEY | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER PECOS COUNTY | 827 | 881 | 906 | 936 | 955 | 968 |
| RANKIN | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER UPTON COUNTY | 276 | 294 | 302 | 312 | 318 | 322 |
| COUNTY-OTHER | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER UPTON COUNTY | 47 | 48 | 48 | 50 | 50 | 51 |
| MANUFACTURING | F | DOCKUM AQUIFER UPTON COUNTY | 2 | 2 | 2 | 2 | 2 | 2 |
| MINING | F | DIRECT REUSE | 2,709 | 2,709 | 2,709 | 2,709 | 2,709 | 2,709 |
| MINING | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER UPTON COUNTY | 2,000 | 2,000 | 1,500 | 750 | 100 | 100 |
| LIVESTOCK | F | EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER UPTON COUNTY | 78 | 78 | 78 | 78 | 78 | 78 |
| IRRIGATION | F | DOCKUM AQUIFER UPTON COUNTY | 208 | 208 | 208 | 208 | 208 | 208 |
| RIO GRANDE BASIN TOTAL | | | 6,147 | 6,220 | 5,753 | 5,045 | 4,420 | 4,438 |
| UPTON COUNTY TOTAL | | | 20,309 | 20,407 | 19,440 | 18,382 | 17,708 | 17,726 |
| BARSTOW | F | DOCKUM AQUIFER REEVES COUNTY | 119 | 125 | 128 | 132 | 135 | 137 |
| GRANDFALLS | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER WARD COUNTY | 135 | 141 | 145 | 149 | 152 | 155 |
| MONAHANS | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER WARD COUNTY | 2,140 | 2,234 | 2,298 | 2,367 | 2,419 | 2,461 |
| MONAHANS | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER WINKLER COUNTY | 378 | 394 | 406 | 418 | 427 | 434 |
| SOUTHWEST SANDHILLS WSC | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER WARD COUNTY | 185 | 186 | 185 | 190 | 194 | 197 |
| WICKETT | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER WARD COUNTY | 208 | 218 | 225 | 231 | 237 | 241 |
| COUNTY-OTHER | F | DOCKUM AQUIFER WARD COUNTY | 15 | 15 | 15 | 15 | 15 | 15 |
| COUNTY-OTHER | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER WARD COUNTY | 122 | 126 | 129 | 133 | 137 | 139 |
| MANUFACTURING | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER WARD COUNTY | 7 | 7 | 7 | 7 | 7 | 7 |
| MINING | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER WARD COUNTY | 1,900 | 1,900 | 1,700 | 1,300 | 900 | 600 |
| STEAM ELECTRIC POWER | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER WARD COUNTY | 2,502 | 2,502 | 2,502 | 2,502 | 2,502 | 2,502 |
| LIVESTOCK | F | DOCKUM AQUIFER WARD COUNTY | 5 | 5 | 5 | 5 | 5 | 5 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 5 | 5 | 5 | 5 | 5 | 5 |
| LIVESTOCK | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER WARD COUNTY | 73 | 73 | 73 | 73 | 73 | 73 |
| IRRIGATION | F | DIRECT REUSE | 670 | 670 | 670 | 670 | 670 | 670 |
| IRRIGATION | F | DOCKUM AQUIFER WARD COUNTY | 269 | 269 | 269 | 269 | 269 | 269 |
| IRRIGATION | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER WARD COUNTY | 1,296 | 1,296 | 1,296 | 1,296 | 1,296 | 1,296 |
| IRRIGATION | F | RED BLUFF LAKE/RESERVOIR | 2,504 | 2,499 | 2,493 | 2,486 | 2,480 | 2,475 |
| IRRIGATION | F | RIO GRANDE RUN-OF-RIVER | 881 | 881 | 881 | 881 | 881 | 881 |
| RIO GRANDE BASIN TOTAL | | | 13,414 | 13,546 | 13,432 | 13,129 | 12,804 | 12,562 |
| WARD COUNTY TOTAL | | | 13,414 | 13,546 | 13,432 | 13,129 | 12,804 | 12,562 |
| LIVESTOCK | F | DOCKUM AQUIFER WINKLER COUNTY | 1 | 1 | 1 | 1 | 1 | 1 |
| COLORADO BASIN TOTAL | | | 1 | 1 | 1 | 1 | 1 | 1 |
| KERMIT | F | DOCKUM AQUIFER WINKLER COUNTY | 1,811 | 1,803 | 1,799 | 1,816 | 1,830 | 1,844 |
| WINK | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER WINKLER COUNTY | 358 | 387 | 412 | 441 | 465 | 486 |
| COUNTY-OTHER | F | DOCKUM AQUIFER WINKLER COUNTY | 30 | 47 | 60 | 75 | 87 | 97 |

Region F Water User Group (WUG) Existing Water Supply

| WUG NAME | SOURCE | SOURCE DESCRIPTION | EXISTING SUPPLY (ACRE-FEET PER YEAR) | | | | | |
|---|--------|---|--------------------------------------|----------------|----------------|----------------|----------------|----------------|
| | REGION | | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| COUNTY-OTHER | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER WINKLER COUNTY | 158 | 246 | 318 | 395 | 458 | 512 |
| MANUFACTURING | F | DOCKUM AQUIFER WINKLER COUNTY | 64 | 76 | 76 | 76 | 76 | 76 |
| MINING | F | DOCKUM AQUIFER WINKLER COUNTY | 394 | 585 | 496 | 378 | 266 | 187 |
| MINING | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER WINKLER COUNTY | 393 | 584 | 495 | 378 | 265 | 186 |
| LIVESTOCK | F | DOCKUM AQUIFER WINKLER COUNTY | 15 | 15 | 15 | 15 | 15 | 15 |
| LIVESTOCK | F | LOCAL SURFACE WATER SUPPLY | 2 | 2 | 2 | 2 | 2 | 2 |
| LIVESTOCK | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER WINKLER COUNTY | 83 | 83 | 83 | 83 | 83 | 83 |
| IRRIGATION | F | PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER WINKLER COUNTY | 3,507 | 3,507 | 3,507 | 3,507 | 3,507 | 3,507 |
| RIO GRANDE BASIN TOTAL | | | 6,815 | 7,335 | 7,263 | 7,166 | 7,054 | 6,995 |
| WINKLER COUNTY TOTAL | | | 6,816 | 7,336 | 7,264 | 7,167 | 7,055 | 6,996 |
| REGION F TOTAL EXISTING WATER SUPPLY | | | 688,850 | 689,043 | 670,604 | 653,138 | 644,050 | 636,435 |

TWDB DB22 Report #6 – WUG Identified Water Needs/Surpluses

Region F Water User Group (WUG) Needs/Surplus*

| | (NEEDS)/SURPLUS (ACRE-FEET PER YEAR) | | | | | |
|--|--------------------------------------|---------|---------|---------|---------|---------|
| | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| ANDREWS COUNTY - COLORADO BASIN | | | | | | |
| ANDREWS | (192) | (416) | (715) | (1,297) | (1,979) | (2,800) |
| COUNTY-OTHER | (30) | (58) | (91) | (152) | (212) | (275) |
| MANUFACTURING | (31) | (59) | (87) | (134) | (174) | (209) |
| MINING | (2,978) | (2,731) | (2,200) | (1,536) | (960) | (517) |
| LIVESTOCK | (9) | (17) | (25) | (39) | (50) | (60) |
| IRRIGATION | (1,000) | (4,989) | (5,672) | (6,811) | (7,769) | (8,618) |
| 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 | (699) | (699) | (699) | (699) | (699) | (699) |
| BORDEN COUNTY - BRAZOS BASIN | | | | | | |
| COUNTY-OTHER | 0 | 0 | 0 | 0 | 0 | 0 |
| LIVESTOCK | 0 | 0 | 0 | 0 | 0 | 0 |
| IRRIGATION | 0 | (138) | (202) | (240) | (265) | (282) |
| 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 | (342) | (342) | (342) | (342) | (342) | (342) |
| BROWN COUNTY - COLORADO BASIN | | | | | | |
| BANGS | 0 | 0 | 0 | 0 | 0 | 0 |
| BROOKESMITH SUD | 0 | 0 | 0 | 0 | 1 | 1 |
| BROWNWOOD | 0 | 0 | 0 | 0 | 0 | 0 |
| COLEMAN COUNTY SUD | (12) | (12) | (11) | (11) | (11) | (11) |
| 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 | (261) | (266) | (266) | (268) | (264) | (263) |
| LIVESTOCK | 0 | 0 | 0 | 0 | 0 | 0 |
| IRRIGATION | (1,366) | (1,370) | (1,369) | (1,371) | (1,368) | (1,369) |
| COKE COUNTY - COLORADO BASIN | | | | | | |
| BRONTE | (202) | (201) | (199) | (197) | (197) | (197) |
| ROBERT LEE | (239) | (235) | (233) | (233) | (232) | (232) |
| COUNTY-OTHER | (8) | (8) | (8) | (8) | (8) | (8) |
| MINING | 0 | 0 | 0 | 0 | 0 | 0 |
| LIVESTOCK | 0 | 0 | 0 | 0 | 0 | 0 |
| IRRIGATION | 0 | 0 | 0 | 0 | 0 | 0 |

*WUG supplies and projected demands are entered for each of a WUG's region-county-basin divisions. The needs shown in the WUG Needs/Surplus report are calculated by first deducting the WUG split's projected demand from its total existing water supply volume. If the WUG split has a greater existing supply volume than projected demand in any given decade, this amount is considered a surplus volume. Surplus volumes are shown as positive values, and needs are shown as negative values in parentheses.

Region F Water User Group (WUG) Needs/Surplus*

| COLEMAN COUNTY - COLORADO BASIN | | | | | | |
|---|----------|----------|----------|----------|----------|----------|
| BROOKESMITH SUD | 0 | 0 | 0 | 0 | 0 | 0 |
| COLEMAN | (821) | (814) | (795) | (793) | (792) | (792) |
| COLEMAN COUNTY SUD | (181) | (178) | (172) | (169) | (169) | (169) |
| SANTA ANNA | 0 | 0 | 0 | 0 | 0 | 0 |
| COUNTY-OTHER | (24) | (22) | (22) | (21) | (21) | (21) |
| MANUFACTURING | (2) | (2) | (2) | (2) | (2) | (2) |
| MINING | 0 | 0 | 0 | 0 | 0 | 0 |
| LIVESTOCK | 64 | 64 | 64 | 64 | 64 | 64 |
| IRRIGATION | (396) | (396) | (396) | (396) | (396) | (396) |
| CONCHO COUNTY - COLORADO BASIN | | | | | | |
| EDEN | 0 | 0 | 0 | 0 | 0 | 0 |
| MILLERSVIEW-DOOLE WSC | (23) | (12) | (15) | (19) | (24) | (27) |
| COUNTY-OTHER | (20) | (20) | (20) | (20) | (20) | (20) |
| 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 | (1,273) | (1,375) | 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 | (1,324) | (1,130) | (1,390) | (1,674) | (1,978) | (2,302) |
| GREATER GARDENDALE WSC | 0 | (103) | (184) | (239) | (265) | (292) |
| ODESSA | (13,619) | (11,845) | (14,383) | (17,177) | (20,171) | (23,510) |
| COUNTY-OTHER | 0 | 0 | 0 | 0 | 0 | 0 |
| MANUFACTURING | 194 | 227 | 125 | 22 | 0 | 0 |
| MINING | 886 | 697 | 933 | 1,281 | 1,579 | 1,772 |
| STEAM ELECTRIC POWER | (65) | (115) | (172) | (263) | (341) | (409) |
| LIVESTOCK | 0 | 0 | 0 | 0 | 0 | 0 |
| IRRIGATION | 149 | 352 | 277 | 207 | 144 | 84 |
| 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 |

*WUG supplies and projected demands are entered for each of a WUG's region-county-basin divisions. The needs shown in the WUG Needs/Surplus report are calculated by first deducting the WUG split's projected demand from its total existing water supply volume. If the WUG split has a greater existing supply volume than projected demand in any given decade, this amount is considered a surplus volume. Surplus volumes are shown as positive values, and needs are shown as negative values in parentheses.

Region F Water User Group (WUG) Needs/Surplus*

| | | | | | | |
|--|---------|---------|---------|---------|---------|---------|
| IRRIGATION | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 | (3,458) | (2,720) | (3,020) | (3,268) | (3,512) | (3,747) |
| COAHOMA | (292) | (228) | (255) | (277) | (298) | (319) |
| COUNTY-OTHER | 0 | 0 | 0 | 0 | 0 | 0 |
| MANUFACTURING | (834) | (640) | (711) | (775) | (834) | (889) |
| MINING | 0 | 0 | 0 | 0 | 0 | 0 |
| STEAM ELECTRIC POWER | (102) | (75) | (85) | (95) | (102) | (110) |
| LIVESTOCK | 40 | 40 | 40 | 40 | 40 | 40 |
| 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 | (1,859) | (1,855) | (549) | 0 | 0 | 0 |
| LIVESTOCK | 0 | 0 | 0 | 0 | 0 | 0 |
| IRRIGATION | (507) | (507) | (507) | (507) | (507) | (507) |
| KIMBLE COUNTY - COLORADO BASIN | | | | | | |
| JUNCTION | (626) | (620) | (609) | (605) | (604) | (604) |
| 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 | (1,103) | (1,103) | (1,103) | (1,103) | (1,103) | (1,103) |
| LOVING COUNTY - RIO GRANDE BASIN | | | | | | |
| COUNTY-OTHER | 0 | 0 | 0 | 0 | 0 | 0 |
| MINING | (3,906) | (3,906) | (3,005) | (1,805) | (1,000) | (1,000) |
| LIVESTOCK | 0 | 0 | 0 | 0 | 0 | 0 |
| MARTIN COUNTY - COLORADO BASIN | | | | | | |
| STANTON | (199) | (196) | (236) | (278) | (313) | (343) |
| COUNTY-OTHER | 0 | 0 | 0 | 0 | 0 | 0 |
| MINING | 0 | 0 | 0 | 985 | 2,585 | 3,485 |
| LIVESTOCK | 0 | 0 | 0 | 0 | 0 | 0 |
| IRRIGATION | 0 | 0 | 0 | 0 | (1,582) | (3,379) |
| MASON COUNTY - COLORADO BASIN | | | | | | |
| MASON | (700) | (690) | (682) | (677) | (676) | (676) |
| 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 |

*WUG supplies and projected demands are entered for each of a WUG's region-county-basin divisions. The needs shown in the WUG Needs/Surplus report are calculated by first deducting the WUG split's projected demand from its total existing water supply volume. If the WUG split has a greater existing supply volume than projected demand in any given decade, this amount is considered a surplus volume. Surplus volumes are shown as positive values, and needs are shown as negative values in parentheses.

Region F Water User Group (WUG) Needs/Surplus*

| MCCULLOCH COUNTY - COLORADO BASIN | | | | | | |
|--|----------|----------|----------|----------|----------|----------|
| BRADY | (1,391) | (1,420) | (1,402) | (1,410) | (1,412) | (1,414) |
| MILLERSVIEW-DOOLE WSC | (36) | (19) | (25) | (31) | (38) | (46) |
| RICHLAND SUD | 78 | 72 | 74 | 77 | 73 | 70 |
| COUNTY-OTHER | 0 | 0 | 0 | 0 | 0 | 0 |
| MANUFACTURING | 0 | 0 | 0 | 0 | 0 | 0 |
| MINING | 1 | 1 | 1 | 1 | 0 | 1 |
| LIVESTOCK | 0 | 0 | 0 | 0 | 0 | 0 |
| IRRIGATION | 0 | 0 | 0 | 0 | 0 | 0 |
| MENARD COUNTY - COLORADO BASIN | | | | | | |
| MENARD | (211) | (203) | (197) | (196) | (196) | (196) |
| 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 | (54) | (99) | (129) | (144) | (159) |
| GREENWOOD WATER | 0 | 0 | 0 | 0 | 0 | 0 |
| MIDLAND | 1,669 | (10,772) | (18,554) | (21,279) | (24,044) | (27,041) |
| ODESSA | (267) | (259) | (335) | (421) | (514) | (614) |
| COUNTY-OTHER | 0 | 0 | 0 | 0 | 0 | 0 |
| MANUFACTURING | 0 | 0 | 0 | 0 | 0 | 0 |
| MINING | 0 | 0 | 0 | 0 | 3 | 803 |
| LIVESTOCK | 0 | 0 | 0 | 0 | 0 | 0 |
| IRRIGATION | 0 | 0 | 0 | 0 | 0 | 0 |
| MITCHELL COUNTY - COLORADO BASIN | | | | | | |
| COLORADO CITY | 0 | (133) | (144) | (155) | (168) | (183) |
| LORAIN | 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 | (1,584) | (1,858) | (1,763) | (1,645) | (1,566) | (1,482) |
| 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 | (161) | (161) | (161) | (161) | (161) | (161) |
| MINING | (3,500) | (3,500) | (3,500) | (3,500) | 500 | 500 |
| LIVESTOCK | 0 | 0 | 0 | 0 | 0 | 0 |
| IRRIGATION | 0 | 0 | 0 | 0 | 0 | 0 |

*WUG supplies and projected demands are entered for each of a WUG's region-county-basin divisions. The needs shown in the WUG Needs/Surplus report are calculated by first deducting the WUG split's projected demand from its total existing water supply volume. If the WUG split has a greater existing supply volume than projected demand in any given decade, this amount is considered a surplus volume. Surplus volumes are shown as positive values, and needs are shown as negative values in parentheses.

Region F Water User Group (WUG) Needs/Surplus*

| REAGAN COUNTY - COLORADO BASIN | | | | | | |
|---|----------|----------|---------|---------|---------|---------|
| BIG LAKE | 0 | 0 | 0 | 0 | 0 | 0 |
| COUNTY-OTHER | 0 | 0 | 0 | 0 | 0 | 0 |
| MINING | 0 | 0 | 0 | 85 | 2,785 | 3,885 |
| 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 | | | | | | |
| BALMORHEA | (107) | (118) | (129) | (137) | (142) | (147) |
| MADERA VALLEY WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| PECOS | 119 | 125 | 128 | 132 | 135 | 137 |
| COUNTY-OTHER | 0 | 0 | 0 | 0 | 0 | 0 |
| MANUFACTURING | 0 | 0 | 0 | 0 | 0 | 0 |
| MINING | (10,400) | (10,400) | (9,900) | (7,700) | (5,600) | (4,000) |
| LIVESTOCK | 0 | 0 | 0 | 0 | 0 | 0 |
| IRRIGATION | 0 | 0 | 0 | 0 | 0 | 0 |
| RUNNELS COUNTY - COLORADO BASIN | | | | | | |
| BALLINGER | (546) | (500) | (500) | (512) | (524) | (537) |
| COLEMAN COUNTY SUD | (10) | (10) | (10) | (9) | (9) | (9) |
| MILES | (2) | (1) | (5) | (10) | (16) | (22) |
| MILLERSVIEW-DOOLE WSC | (26) | (13) | (18) | (21) | (27) | (31) |
| NORTH RUNNELS WSC | (166) | (162) | (159) | (158) | (158) | (160) |
| WINTERS | (226) | (218) | (206) | (205) | (204) | (204) |
| COUNTY-OTHER | (33) | (29) | (28) | (28) | (29) | (29) |
| 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 | (205) | (216) | (227) | (241) | (259) | (278) |
| MINING | (67) | (109) | (116) | (87) | (59) | (40) |
| LIVESTOCK | 0 | 0 | 0 | 0 | 0 | 0 |
| IRRIGATION | (1,450) | (1,458) | (1,460) | (1,459) | (1,459) | (1,459) |

*WUG supplies and projected demands are entered for each of a WUG’s region-county-basin divisions. The needs shown in the WUG Needs/Surplus report are calculated by first deducting the WUG split’s projected demand from its total existing water supply volume. If the WUG split has a greater existing supply volume than projected demand in any given decade, this amount is considered a surplus volume. Surplus volumes are shown as positive values, and needs are shown as negative values in parentheses.

Region F Water User Group (WUG) Needs/Surplus*

| SCURRY COUNTY - COLORADO BASIN | | | | | | |
|--|---------|---------|---------|---------|----------|----------|
| SNYDER | (1,100) | (941) | (1,099) | (1,291) | (1,494) | (1,710) |
| COUNTY-OTHER | (335) | (326) | (363) | (405) | (454) | (507) |
| MANUFACTURING | (130) | (156) | (156) | (156) | (156) | (156) |
| MINING | (175) | (286) | (303) | (228) | (154) | (104) |
| LIVESTOCK | 0 | 0 | 0 | 0 | 0 | 0 |
| IRRIGATION | (5,081) | (5,097) | (5,105) | (5,103) | (5,101) | (5,104) |
| 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 | 164 | 168 | 164 | 156 | 149 | 141 |
| DADS Supported Living Center | 0 | 0 | 0 | 0 | 0 | 0 |
| GOODFELLOW AIR FORCE BASE | (196) | (191) | (222) | (258) | (298) | (345) |
| MILLERSVIEW-DOOLE WSC | (64) | (33) | (46) | (60) | (77) | (95) |
| SAN ANGELO | (6,877) | (6,658) | (7,632) | (8,824) | (10,243) | (11,773) |
| TOM GREEN COUNTY FWSD 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| COUNTY-OTHER | 166 | 178 | 139 | 107 | 79 | 55 |
| MANUFACTURING | (88) | (144) | (159) | (178) | (198) | (215) |
| MINING | 0 | 0 | 0 | 0 | 0 | 0 |
| LIVESTOCK | 0 | 0 | 0 | 0 | 0 | 0 |
| IRRIGATION | 558 | 509 | 452 | 437 | 386 | 332 |
| UPTON COUNTY - COLORADO BASIN | | | | | | |
| COUNTY-OTHER | 0 | 0 | 0 | 0 | 0 | 0 |
| MANUFACTURING | 0 | 0 | 0 | 0 | 0 | 0 |
| MINING | 973 | 973 | 1,043 | 1,415 | 1,935 | 2,201 |
| 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 |

*WUG supplies and projected demands are entered for each of a WUG’s region-county-basin divisions. The needs shown in the WUG Needs/Surplus report are calculated by first deducting the WUG split’s projected demand from its total existing water supply volume. If the WUG split has a greater existing supply volume than projected demand in any given decade, this amount is considered a surplus volume. Surplus volumes are shown as positive values, and needs are shown as negative values in parentheses.

Region F Water User Group (WUG) Needs/Surplus*

| | | | | | | |
|--|-------|-------|-------|-------|-------|-------|
| MANUFACTURING | 0 | 0 | 0 | 0 | 0 | 0 |
| MINING | 245 | 245 | 675 | 1,103 | 1,383 | 1,817 |
| LIVESTOCK | 0 | 0 | 0 | 0 | 0 | 0 |
| IRRIGATION | 0 | 0 | 0 | 0 | 0 | 0 |
| WARD COUNTY - RIO GRANDE BASIN | | | | | | |
| BARSTOW | 0 | 0 | 0 | 0 | 0 | 0 |
| GRANDFALLS | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 | 0 | 0 | 0 | 0 | 0 | 0 |
| LIVESTOCK | 0 | 0 | 0 | 0 | 0 | 0 |
| IRRIGATION | 2,460 | 2,455 | 2,449 | 2,442 | 2,436 | 2,431 |
| 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 |

*WUG supplies and projected demands are entered for each of a WUG's region-county-basin divisions. The needs shown in the WUG Needs/Surplus report are calculated by first deducting the WUG split's projected demand from its total existing water supply volume. If the WUG split has a greater existing supply volume than projected demand in any given decade, this amount is considered a surplus volume. Surplus volumes are shown as positive values, and needs are shown as negative values in parentheses.

TWDB DB22 Report #9 – Source Water Balance

Region F Source Water Balance (Availability - WUG Supply)

| GROUNDWATER SOURCE TYPE | | | | SOURCE WATER BALANCE (ACRE-FEET PER YEAR) | | | | | |
|---------------------------------|-----------|------------|--------------------|---|--------|--------|--------|--------|--------|
| SOURCE NAME | COUNTY | BASIN | SALINITY* | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| CAPITAN REEF COMPLEX AQUIFER | PECOS | RIO GRANDE | FRESH/ BRACKISH | 24,369 | 24,369 | 24,369 | 24,369 | 24,369 | 24,369 |
| CAPITAN REEF COMPLEX AQUIFER | REEVES | RIO GRANDE | FRESH | 1,007 | 1,007 | 1,007 | 1,007 | 1,007 | 1,007 |
| CAPITAN REEF COMPLEX AQUIFER | WARD | RIO GRANDE | FRESH/ BRACKISH | 103 | 103 | 103 | 103 | 103 | 103 |
| CAPITAN REEF COMPLEX AQUIFER | WINKLER | RIO GRANDE | FRESH | 274 | 274 | 274 | 274 | 274 | 274 |
| CROSS TIMBERS AQUIFER | BROWN | COLORADO | FRESH | 522 | 520 | 521 | 521 | 523 | 523 |
| CROSS TIMBERS AQUIFER | COLEMAN | COLORADO | FRESH | 64 | 64 | 64 | 64 | 64 | 64 |
| CROSS TIMBERS AQUIFER | CONCHO | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| CROSS TIMBERS AQUIFER | MCCULLOCH | COLORADO | FRESH | 103 | 103 | 103 | 103 | 103 | 103 |
| CROSS TIMBERS AQUIFER | RUNNELS | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| DOCKUM AQUIFER | ANDREWS | COLORADO | FRESH | 1,300 | 1,300 | 1,300 | 1,300 | 1,300 | 1,300 |
| DOCKUM AQUIFER | ANDREWS | RIO GRANDE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| DOCKUM AQUIFER | BORDEN | BRAZOS | FRESH | 284 | 284 | 284 | 284 | 284 | 284 |
| DOCKUM AQUIFER | BORDEN | COLORADO | FRESH | 606 | 606 | 606 | 606 | 606 | 606 |
| DOCKUM AQUIFER | COKE | COLORADO | FRESH/ BRACKISH | 100 | 100 | 100 | 100 | 100 | 100 |
| DOCKUM AQUIFER | CRANE | RIO GRANDE | FRESH | 14 | 14 | 14 | 14 | 14 | 14 |
| DOCKUM AQUIFER | CROCKETT | COLORADO | FRESH | 2 | 2 | 2 | 2 | 2 | 2 |
| DOCKUM AQUIFER | CROCKETT | RIO GRANDE | FRESH | 2 | 2 | 2 | 2 | 2 | 2 |
| DOCKUM AQUIFER | ECTOR | COLORADO | FRESH | 13 | 13 | 13 | 13 | 13 | 13 |
| DOCKUM AQUIFER | ECTOR | RIO GRANDE | FRESH | 415 | 415 | 415 | 415 | 415 | 415 |
| DOCKUM AQUIFER | GLASSCOCK | COLORADO | FRESH | 900 | 900 | 900 | 900 | 900 | 900 |
| DOCKUM AQUIFER | HOWARD | COLORADO | FRESH | 1,085 | 1,085 | 1,085 | 1,085 | 1,085 | 1,085 |
| DOCKUM AQUIFER | IRION | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| DOCKUM AQUIFER | LOVING | RIO GRANDE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| DOCKUM AQUIFER | MARTIN | COLORADO | FRESH | 8 | 8 | 8 | 8 | 8 | 8 |
| DOCKUM AQUIFER | MIDLAND | COLORADO | FRESH/ BRACKISH | 400 | 400 | 400 | 400 | 400 | 400 |
| DOCKUM AQUIFER | MITCHELL | COLORADO | FRESH | 45 | 175 | 186 | 202 | 234 | 229 |
| DOCKUM AQUIFER | PECOS | RIO GRANDE | FRESH | 8,164 | 8,164 | 8,164 | 8,164 | 8,164 | 8,164 |
| DOCKUM AQUIFER | REAGAN | COLORADO | FRESH | 231 | 231 | 231 | 231 | 231 | 231 |
| DOCKUM AQUIFER | REAGAN | RIO GRANDE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| DOCKUM AQUIFER | REEVES | RIO GRANDE | FRESH | 1,247 | 1,086 | 930 | 815 | 726 | 659 |
| DOCKUM AQUIFER | SCURRY | BRAZOS | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| DOCKUM AQUIFER | SCURRY | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| DOCKUM AQUIFER | STERLING | COLORADO | FRESH | 10 | 10 | 10 | 10 | 10 | 10 |
| DOCKUM AQUIFER | TOM GREEN | COLORADO | FRESH/ BRACKISH | 200 | 200 | 200 | 200 | 200 | 200 |
| DOCKUM AQUIFER | UPTON | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| DOCKUM AQUIFER | UPTON | RIO GRANDE | FRESH | 790 | 790 | 790 | 790 | 790 | 790 |
| DOCKUM AQUIFER | WARD | RIO GRANDE | FRESH | 1,861 | 1,861 | 1,861 | 1,861 | 1,861 | 1,861 |
| DOCKUM AQUIFER | WINKLER | COLORADO | FRESH | 12 | 12 | 12 | 12 | 12 | 12 |
| DOCKUM AQUIFER | WINKLER | RIO GRANDE | FRESH | 3,673 | 3,461 | 3,541 | 3,627 | 3,713 | 3,768 |
| EDWARDS-TRINITY-PLATEAU AQUIFER | ANDREWS | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| EDWARDS-TRINITY-PLATEAU AQUIFER | HOWARD | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| EDWARDS-TRINITY-PLATEAU AQUIFER | MARTIN | COLORADO | FRESH | 242 | 242 | 242 | 242 | 242 | 242 |

*Salinity field indicates whether the source availability is considered 'fresh' (less than 1,000 mg/L), 'brackish' (1,000 to 10,000 mg/L), 'saline' (10,001 mg/L to 34,999 mg/L), or 'seawater' (35,000 mg/L or greater). Sources can also be labeled as 'fresh/brackish' or 'brackish/saline', if a combination of the salinity types is appropriate.

Region F Source Water Balance (Availability - WUG Supply)

| GROUNDWATER SOURCE TYPE | | | | SOURCE WATER BALANCE (ACRE-FEET PER YEAR) | | | | | |
|--|------------|------------|--------------------|---|---------|--------|--------|--------|--------|
| SOURCE NAME | COUNTY | BASIN | SALINITY* | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | COKE | COLORADO | FRESH | 350 | 356 | 408 | 462 | 510 | 552 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | CONCHO | COLORADO | FRESH | 38 | 36 | 42 | 45 | 47 | 47 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | CROCKETT | COLORADO | FRESH | 14 | 14 | 14 | 14 | 14 | 14 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | CROCKETT | RIO GRANDE | FRESH | 0 | 0 | 13 | 1,397 | 2,592 | 2,889 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | ECTOR | COLORADO | FRESH | 1,567 | 1,898 | 1,593 | 1,377 | 1,033 | 663 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | ECTOR | RIO GRANDE | FRESH | 295 | 293 | 269 | 255 | 240 | 224 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | GLASSCOCK | COLORADO | FRESH | 14,314 | 14,302 | 15,707 | 17,007 | 18,108 | 18,701 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | IRION | COLORADO | FRESH | 0 | 0 | 0 | 754 | 1,754 | 2,254 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | KIMBLE | COLORADO | FRESH | 563 | 569 | 576 | 580 | 581 | 581 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | MASON | COLORADO | FRESH | 18 | 18 | 18 | 18 | 18 | 18 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | MCCULLOCH | COLORADO | FRESH | 73 | 73 | 73 | 73 | 73 | 73 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | MENARD | COLORADO | FRESH | 1,011 | 1,028 | 1,130 | 1,225 | 1,286 | 1,381 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | MIDLAND | COLORADO | FRESH | 6,390 | 6,163 | 8,779 | 11,003 | 12,602 | 12,313 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | PECOS | RIO GRANDE | FRESH/ BRACKISH | 47,361 | 46,898 | 46,435 | 47,581 | 44,649 | 45,451 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | REAGAN | COLORADO | FRESH | 39,215 | 39,144 | 42,002 | 45,171 | 45,139 | 45,115 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | REAGAN | RIO GRANDE | FRESH | 20 | 20 | 20 | 20 | 20 | 20 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | SCHLEICHER | COLORADO | FRESH | 3,629 | 3,526 | 3,646 | 3,766 | 3,872 | 3,938 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | SCHLEICHER | RIO GRANDE | FRESH | 698 | 665 | 707 | 750 | 789 | 812 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | STERLING | COLORADO | FRESH | 605 | 432 | 573 | 863 | 1,115 | 1,245 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | SUTTON | COLORADO | FRESH | 70 | 14 | 6 | 43 | 79 | 104 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | SUTTON | RIO GRANDE | FRESH | 3,529 | 3,246 | 3,193 | 3,328 | 3,464 | 3,557 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | TOM GREEN | COLORADO | FRESH | 779 | 779 | 779 | 779 | 779 | 779 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | UPTON | COLORADO | FRESH | 9,790 | 9,765 | 10,265 | 10,615 | 10,664 | 10,664 |
| EDWARDS-TRINITY-PLATEAU, PECOS VALLEY, AND TRINITY AQUIFER | UPTON | RIO GRANDE | FRESH | (1,275) | (1,294) | (802) | (64) | 580 | 575 |
| ELLENBURGER-SAN SABA AQUIFER | BROWN | COLORADO | FRESH | 131 | 131 | 131 | 131 | 131 | 131 |
| ELLENBURGER-SAN SABA AQUIFER | KIMBLE | COLORADO | FRESH | 521 | 521 | 521 | 521 | 521 | 521 |
| ELLENBURGER-SAN SABA AQUIFER | MASON | COLORADO | FRESH | 3,141 | 3,141 | 3,141 | 3,141 | 3,141 | 3,141 |
| ELLENBURGER-SAN SABA AQUIFER | MCCULLOCH | COLORADO | FRESH | 0 | 36 | 889 | 1,396 | 1,792 | 2,109 |
| ELLENBURGER-SAN SABA AQUIFER | MENARD | COLORADO | FRESH | 0 | 1 | 21 | 52 | 102 | 102 |
| HICKORY AQUIFER | BROWN | COLORADO | FRESH | 12 | 12 | 12 | 12 | 12 | 12 |

*Salinity field indicates whether the source availability is considered 'fresh' (less than 1,000 mg/L), 'brackish' (1,000 to 10,000 mg/L), 'saline' (10,001 mg/L to 34,999 mg/L), or 'seawater' (35,000 mg/L or greater). Sources can also be labeled as 'fresh/brackish' or 'brackish/saline', if a combination of the salinity types is appropriate.

Region F Source Water Balance (Availability - WUG Supply)

| GROUNDWATER SOURCE TYPE | | | | SOURCE WATER BALANCE (ACRE-FEET PER YEAR) | | | | | |
|--|-----------|------------|--------------------|---|--------|--------|--------|--------|--------|
| SOURCE NAME | COUNTY | BASIN | SALINITY* | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| HICKORY AQUIFER | COLEMAN | COLORADO | FRESH | 500 | 500 | 500 | 500 | 500 | 500 |
| HICKORY AQUIFER | CONCHO | COLORADO | FRESH | 27 | 27 | 27 | 27 | 27 | 27 |
| HICKORY AQUIFER | KIMBLE | COLORADO | FRESH | 110 | 110 | 110 | 110 | 110 | 110 |
| HICKORY AQUIFER | MASON | COLORADO | FRESH | 6,641 | 6,730 | 6,969 | 7,112 | 7,221 | 7,309 |
| HICKORY AQUIFER | MCCULLOCH | COLORADO | FRESH | 9,805 | 8,000 | 8,854 | 9,360 | 9,756 | 10,073 |
| HICKORY AQUIFER | MENARD | COLORADO | FRESH | 1,481 | 1,481 | 1,481 | 1,481 | 1,481 | 1,481 |
| IGNEOUS AQUIFER | PECOS | RIO GRANDE | FRESH | 80 | 80 | 80 | 80 | 80 | 80 |
| IGNEOUS AQUIFER | REEVES | RIO GRANDE | FRESH | 65 | 65 | 65 | 65 | 65 | 65 |
| LIPAN AQUIFER | COKE | COLORADO | FRESH/ BRACKISH | 160 | 160 | 160 | 160 | 160 | 160 |
| LIPAN AQUIFER | CONCHO | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| LIPAN AQUIFER | GLASSCOCK | COLORADO | FRESH | 10 | 10 | 10 | 10 | 10 | 10 |
| LIPAN AQUIFER | IRION | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| LIPAN AQUIFER | RUNNELS | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| LIPAN AQUIFER | STERLING | COLORADO | FRESH | 574 | 569 | 569 | 570 | 570 | 570 |
| LIPAN AQUIFER | TOM GREEN | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| MARBLE FALLS AQUIFER | BROWN | COLORADO | FRESH | 25 | 25 | 25 | 25 | 25 | 25 |
| MARBLE FALLS AQUIFER | KIMBLE | COLORADO | FRESH | 80 | 80 | 80 | 80 | 80 | 80 |
| MARBLE FALLS AQUIFER | MASON | COLORADO | FRESH | 100 | 100 | 100 | 100 | 100 | 100 |
| MARBLE FALLS AQUIFER | MCCULLOCH | COLORADO | FRESH | 10 | 10 | 10 | 10 | 10 | 10 |
| OGALLALA AQUIFER | ECTOR | COLORADO | FRESH | 7,551 | 7,006 | 6,424 | 6,388 | 5,980 | 5,980 |
| OGALLALA AQUIFER | GLASSCOCK | COLORADO | FRESH | 1,348 | 1,096 | 795 | 481 | 226 | 0 |
| OGALLALA AQUIFER | MIDLAND | COLORADO | FRESH | 24,012 | 22,239 | 20,163 | 18,305 | 17,099 | 17,164 |
| OGALLALA AQUIFER | WINKLER | RIO GRANDE | FRESH | 40 | 40 | 40 | 40 | 40 | 40 |
| OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER | ANDREWS | COLORADO | FRESH | 2 | 1 | 0 | 0 | 0 | 1 |
| OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER | ANDREWS | RIO GRANDE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER | BORDEN | BRAZOS | FRESH | 5 | 0 | 0 | 0 | 0 | 0 |
| OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER | BORDEN | COLORADO | FRESH | 3,339 | 2,199 | 1,695 | 1,402 | 1,111 | 919 |
| OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER | HOWARD | COLORADO | FRESH | 7,391 | 4,926 | 4,803 | 5,179 | 5,624 | 5,709 |
| OGALLALA AQUIFER & EDWARDS-TRINITY-HIGH PLAINS AQUIFER | MARTIN | COLORADO | FRESH | 19,134 | 6,775 | 4,781 | 1,612 | 595 | 595 |
| OTHER AQUIFER | BORDEN | COLORADO | FRESH | 1,442 | 1,194 | 1,337 | 1,627 | 1,877 | 2,000 |
| OTHER AQUIFER | COKE | COLORADO | FRESH | 1,122 | 1,132 | 1,141 | 1,144 | 1,144 | 1,144 |
| OTHER AQUIFER | COLEMAN | COLORADO | FRESH | 1 | 2 | 12 | 23 | 32 | 40 |
| OTHER AQUIFER | CONCHO | COLORADO | FRESH | 2,681 | 2,687 | 2,739 | 2,794 | 2,841 | 2,882 |
| OTHER AQUIFER | MCCULLOCH | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| OTHER AQUIFER | MENARD | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| OTHER AQUIFER | MITCHELL | COLORADO | FRESH | 769 | 769 | 769 | 769 | 769 | 769 |
| OTHER AQUIFER | PECOS | RIO GRANDE | FRESH | 9,995 | 9,995 | 9,995 | 9,995 | 9,995 | 9,995 |
| OTHER AQUIFER | RUNNELS | COLORADO | FRESH | 1,605 | 1,609 | 1,640 | 1,670 | 1,697 | 1,720 |
| OTHER AQUIFER | SCURRY | BRAZOS | BRACKISH | 71 | 71 | 71 | 71 | 71 | 71 |
| OTHER AQUIFER | SCURRY | COLORADO | FRESH | 279 | 279 | 279 | 279 | 279 | 279 |

*Salinity field indicates whether the source availability is considered 'fresh' (less than 1,000 mg/L), 'brackish' (1,000 to 10,000 mg/L), 'saline' (10,001 mg/L to 34,999 mg/L), or 'seawater' (35,000 mg/L or greater). Sources can also be labeled as 'fresh/brackish' or 'brackish/saline', if a combination of the salinity types is appropriate.

Region F Source Water Balance (Availability - WUG Supply)

| GROUNDWATER SOURCE TYPE | | | | SOURCE WATER BALANCE (ACRE-FEET PER YEAR) | | | | | |
|--|-----------|------------|--------------------|---|----------------|----------------|----------------|----------------|----------------|
| SOURCE NAME | COUNTY | BASIN | SALINITY* | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| OTHER AQUIFER | TOM GREEN | COLORADO | FRESH/ BRACKISH | 0 | 0 | 0 | 0 | 0 | 0 |
| OTHER AQUIFER | MASON | COLORADO | FRESH | 833 | 833 | 833 | 833 | 833 | 833 |
| PECOS VALLEY AQUIFER | ANDREWS | RIO GRANDE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER | CRANE | RIO GRANDE | FRESH | 2,786 | 2,458 | 2,363 | 2,455 | 2,549 | 2,615 |
| PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER | LOVING | RIO GRANDE | FRESH | 0 | 0 | 0 | 0 | 295 | 1,195 |
| PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER | PECOS | RIO GRANDE | FRESH | 63,078 | 63,061 | 63,041 | 63,020 | 62,997 | 62,975 |
| PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER | REEVES | RIO GRANDE | FRESH | 151,172 | 151,096 | 151,044 | 151,005 | 150,973 | 150,946 |
| PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER | WARD | RIO GRANDE | FRESH | 29,915 | 29,777 | 29,881 | 30,174 | 30,488 | 30,720 |
| PECOS VALLEY/EDWARDS-TRINITY (PLATEAU) AQUIFER | WINKLER | RIO GRANDE | FRESH | 33,872 | 33,548 | 33,528 | 33,527 | 33,544 | 33,541 |
| RUSTLER AQUIFER | LOVING | RIO GRANDE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| RUSTLER AQUIFER | PECOS | RIO GRANDE | FRESH | 4,524 | 4,524 | 4,524 | 4,524 | 4,524 | 4,524 |
| RUSTLER AQUIFER | REEVES | RIO GRANDE | FRESH | 420 | 420 | 420 | 420 | 420 | 420 |
| RUSTLER AQUIFER | WARD | RIO GRANDE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| RUSTLER AQUIFER | CRANE | RIO GRANDE | FRESH/ BRACKISH | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 |
| RUSTLER AQUIFER | WINKLER | RIO GRANDE | BRACKISH | 500 | 500 | 500 | 500 | 500 | 500 |
| SEYMOUR AQUIFER | SCURRY | BRAZOS | FRESH | 10 | 10 | 10 | 10 | 10 | 10 |
| TRINITY AQUIFER | BROWN | BRAZOS | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| TRINITY AQUIFER | BROWN | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| GROUNDWATER TOTAL SOURCE WATER BALANCE | | | | 569,470 | 546,782 | 550,766 | 558,976 | 561,170 | 564,911 |

| REUSE SOURCE TYPE | | | | SOURCE WATER BALANCE (ACRE-FEET PER YEAR) | | | | | |
|---|-----------|------------|-----------|---|------------|------------|------------|------------|------------|
| SOURCE NAME | COUNTY | BASIN | SALINITY* | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| DIRECT REUSE | ANDREWS | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| DIRECT REUSE | CRANE | RIO GRANDE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| DIRECT REUSE | ECTOR | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| DIRECT REUSE | HOWARD | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| DIRECT REUSE | MIDLAND | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| DIRECT REUSE | MITCHELL | COLORADO | FRESH | 552 | 552 | 552 | 552 | 552 | 552 |
| DIRECT REUSE | RUNNELS | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| DIRECT REUSE | TOM GREEN | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| DIRECT REUSE | WARD | RIO GRANDE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| REUSE TOTAL SOURCE WATER BALANCE | | | | 552 | 552 | 552 | 552 | 552 | 552 |

| SURFACE WATER SOURCE TYPE | | | | SOURCE WATER BALANCE (ACRE-FEET PER YEAR) | | | | | |
|---------------------------------|-----------|------------|-----------|---|------|------|------|------|------|
| SOURCE NAME | COUNTY | BASIN | SALINITY* | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| BALLINGER/MOONEN LAKE/RESERVOIR | RESERVOIR | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| BALMORHEA LAKE/RESERVOIR | RESERVOIR | RIO GRANDE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| BRADY CREEK LAKE/RESERVOIR | RESERVOIR | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| BRAZOS LIVESTOCK LOCAL SUPPLY | BORDEN | BRAZOS | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| BRAZOS LIVESTOCK LOCAL SUPPLY | BROWN | BRAZOS | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |

*Salinity field indicates whether the source availability is considered 'fresh' (less than 1,000 mg/L), 'brackish' (1,000 to 10,000 mg/L), 'saline' (10,001 mg/L to 34,999 mg/L), or 'seawater' (35,000 mg/L or greater). Sources can also be labeled as 'fresh/brackish' or 'brackish/saline', if a combination of the salinity types is appropriate.

Region F Source Water Balance (Availability - WUG Supply)

| SURFACE WATER SOURCE TYPE | | | | SOURCE WATER BALANCE (ACRE-FEET PER YEAR) | | | | | |
|--|------------|----------|-----------|---|-------|-------|-------|-------|-------|
| SOURCE NAME | COUNTY | BASIN | SALINITY* | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| BRAZOS LIVESTOCK LOCAL SUPPLY | SCURRY | BRAZOS | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| BROWNWOOD LAKE/RESERVOIR | RESERVOIR | COLORADO | FRESH | 2,850 | 2,710 | 2,570 | 2,430 | 2,290 | 2,150 |
| COLEMAN LAKE/RESERVOIR | RESERVOIR | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO CITY-CHAMPION LAKE/RESERVOIR SYSTEM | RESERVOIR | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO LIVESTOCK LOCAL SUPPLY | BORDEN | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO LIVESTOCK LOCAL SUPPLY | BROWN | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO LIVESTOCK LOCAL SUPPLY | COKE | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO LIVESTOCK LOCAL SUPPLY | COLEMAN | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO LIVESTOCK LOCAL SUPPLY | CONCHO | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO LIVESTOCK LOCAL SUPPLY | CROCKETT | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO LIVESTOCK LOCAL SUPPLY | ECTOR | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO LIVESTOCK LOCAL SUPPLY | GLASSCOCK | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO LIVESTOCK LOCAL SUPPLY | HOWARD | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO LIVESTOCK LOCAL SUPPLY | IRION | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO LIVESTOCK LOCAL SUPPLY | KIMBLE | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO LIVESTOCK LOCAL SUPPLY | MARTIN | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO LIVESTOCK LOCAL SUPPLY | MASON | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO LIVESTOCK LOCAL SUPPLY | MCCULLOCH | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO LIVESTOCK LOCAL SUPPLY | MENARD | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO LIVESTOCK LOCAL SUPPLY | MIDLAND | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO LIVESTOCK LOCAL SUPPLY | MITCHELL | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO LIVESTOCK LOCAL SUPPLY | REAGAN | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO LIVESTOCK LOCAL SUPPLY | RUNNELS | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO LIVESTOCK LOCAL SUPPLY | SCHLEICHER | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO LIVESTOCK LOCAL SUPPLY | SCURRY | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO LIVESTOCK LOCAL SUPPLY | STERLING | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO LIVESTOCK LOCAL SUPPLY | SUTTON | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO LIVESTOCK LOCAL SUPPLY | TOM GREEN | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO RIVER MWD LAKE/RESERVOIR SYSTEM | RESERVOIR | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO RUN-OF-RIVER | BROWN | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO RUN-OF-RIVER | COKE | COLORADO | FRESH | 5 | 5 | 5 | 5 | 5 | 5 |
| COLORADO RUN-OF-RIVER | COLEMAN | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO RUN-OF-RIVER | CONCHO | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO RUN-OF-RIVER | ECTOR | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO RUN-OF-RIVER | IRION | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO RUN-OF-RIVER | KIMBLE | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO RUN-OF-RIVER | MCCULLOCH | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO RUN-OF-RIVER | MENARD | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO RUN-OF-RIVER | MITCHELL | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO RUN-OF-RIVER | RUNNELS | COLORADO | FRESH | 65 | 65 | 65 | 65 | 65 | 65 |
| COLORADO RUN-OF-RIVER | SCURRY | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO RUN-OF-RIVER | STERLING | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO RUN-OF-RIVER | SUTTON | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO RUN-OF-RIVER | TOM GREEN | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |

*Salinity field indicates whether the source availability is considered 'fresh' (less than 1,000 mg/L), 'brackish' (1,000 to 10,000 mg/L), 'saline' (10,001 mg/L to 34,999 mg/L), or 'seawater' (35,000 mg/L or greater). Sources can also be labeled as 'fresh/brackish' or 'brackish/saline', if a combination of the salinity types is appropriate.

Region F Source Water Balance (Availability - WUG Supply)

| SURFACE WATER SOURCE TYPE | | | | SOURCE WATER BALANCE (ACRE-FEET PER YEAR) | | | | | |
|---|------------|------------|-----------|---|----------------|----------------|----------------|----------------|----------------|
| SOURCE NAME | COUNTY | BASIN | SALINITY* | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| CRMWD DIVERTED WATER SYSTEM | RESERVOIR | COLORADO | BRACKISH | 5,760 | 5,760 | 5,760 | 5,760 | 5,760 | 5,760 |
| EV SPENCE LAKE/RESERVOIR NON-SYSTEM PORTION | RESERVOIR | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| HORDS CREEK LAKE/RESERVOIR | RESERVOIR | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| MOUNTAIN CREEK LAKE/RESERVOIR | RESERVOIR | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| OAK CREEK LAKE/RESERVOIR | RESERVOIR | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| OH IVIE LAKE/RESERVOIR NON-SYSTEM PORTION | RESERVOIR | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| RED BLUFF LAKE/RESERVOIR | RESERVOIR | RIO GRANDE | FRESH | 22,538 | 22,485 | 22,433 | 22,380 | 22,328 | 22,275 |
| RIO GRANDE LIVESTOCK LOCAL SUPPLY | CRANE | RIO GRANDE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| RIO GRANDE LIVESTOCK LOCAL SUPPLY | CROCKETT | RIO GRANDE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| RIO GRANDE LIVESTOCK LOCAL SUPPLY | LOVING | RIO GRANDE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| RIO GRANDE LIVESTOCK LOCAL SUPPLY | PECOS | RIO GRANDE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| RIO GRANDE LIVESTOCK LOCAL SUPPLY | SCHLEICHER | RIO GRANDE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| RIO GRANDE LIVESTOCK LOCAL SUPPLY | SUTTON | RIO GRANDE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| RIO GRANDE LIVESTOCK LOCAL SUPPLY | WARD | RIO GRANDE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| RIO GRANDE LIVESTOCK LOCAL SUPPLY | WINKLER | RIO GRANDE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| RIO GRANDE RUN-OF-RIVER | PECOS | RIO GRANDE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| RIO GRANDE RUN-OF-RIVER | REEVES | RIO GRANDE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| RIO GRANDE RUN-OF-RIVER | WARD | RIO GRANDE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| SAN ANGELO LAKES LAKE/RESERVOIR SYSTEM | RESERVOIR | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| WINTERS LAKE/RESERVOIR | RESERVOIR | COLORADO | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| SURFACE WATER TOTAL SOURCE WATER BALANCE | | | | 31,218 | 31,025 | 30,833 | 30,640 | 30,448 | 30,255 |
| REGION F TOTAL SOURCE WATER BALANCE | | | | 601,240 | 578,359 | 582,151 | 590,168 | 592,170 | 595,718 |

*Salinity field indicates whether the source availability is considered 'fresh' (less than 1,000 mg/L), 'brackish' (1,000 to 10,000 mg/L), 'saline' (10,001 mg/L to 34,999 mg/L), or 'seawater' (35,000 mg/L or greater). Sources can also be labeled as 'fresh/brackish' or 'brackish/saline', if a combination of the salinity types is appropriate.

TWDB DB22 Report #10a – WUG Data Comparison to 2016 RWP

Region F Water User Group (WUG) Data Comparison to 2016 Regional Water Plan (RWP)*

| | 2020 PLANNING DECADE | | | 2070 PLANNING DECADE | | |
|--|----------------------|----------|----------------|----------------------|----------|----------------|
| | 2016 RWP | 2021 RWP | DIFFERENCE (%) | 2016 RWP | 2021 RWP | DIFFERENCE (%) |
| ANDREWS COUNTY COUNTY-OTHER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 293 | 507 | 73.0% | 214 | 501 | 134.1% |
| PROJECTED DEMAND TOTAL | 501 | 537 | 7.2% | 700 | 776 | 10.9% |
| WATER SUPPLY NEEDS TOTAL | 208 | 30 | -85.6% | 486 | 275 | -43.4% |
| ANDREWS COUNTY IRRIGATION WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 9,478 | 18,666 | 96.9% | 5,236 | 11,048 | 111.0% |
| PROJECTED DEMAND TOTAL | 37,898 | 20,365 | -46.3% | 36,306 | 20,365 | -43.9% |
| WATER SUPPLY NEEDS TOTAL | 28,420 | 1,699 | -94.0% | 31,070 | 9,317 | -70.0% |
| ANDREWS COUNTY LIVESTOCK WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 225 | 201 | -10.7% | 159 | 150 | -5.7% |
| PROJECTED DEMAND TOTAL | 325 | 210 | -35.4% | 325 | 210 | -35.4% |
| WATER SUPPLY NEEDS TOTAL | 100 | 9 | -91.0% | 166 | 60 | -63.9% |
| ANDREWS COUNTY MANUFACTURING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 31 | 549 | 1671.0% | 12 | 408 | 3300.0% |
| PROJECTED DEMAND TOTAL | 49 | 580 | 1083.7% | 66 | 617 | 834.8% |
| WATER SUPPLY NEEDS TOTAL | 18 | 31 | 72.2% | 54 | 209 | 287.0% |
| ANDREWS COUNTY MINING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,348 | 981 | -27.2% | 317 | 966 | 204.7% |
| PROJECTED DEMAND TOTAL | 3,959 | 3,959 | 0.0% | 1,483 | 1,483 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 2,611 | 2,978 | 14.1% | 1,166 | 517 | -55.7% |
| ANDREWS COUNTY MUNICIPAL WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 2,683 | 3,990 | 48.7% | 1,735 | 6,221 | 258.6% |
| PROJECTED DEMAND TOTAL | 4,270 | 4,182 | -2.1% | 9,210 | 9,021 | -2.1% |
| WATER SUPPLY NEEDS TOTAL | 1,587 | 192 | -87.9% | 7,475 | 2,800 | -62.5% |
| BORDEN COUNTY COUNTY-OTHER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 178 | 178 | 0.0% | 177 | 175 | -1.1% |
| PROJECTED DEMAND TOTAL | 178 | 178 | 0.0% | 175 | 175 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| BORDEN COUNTY IRRIGATION WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 757 | 2,949 | 289.6% | 760 | 2,667 | 250.9% |
| PROJECTED DEMAND TOTAL | 4,000 | 2,949 | -26.3% | 3,977 | 2,949 | -25.8% |
| WATER SUPPLY NEEDS TOTAL | 3,243 | 0 | -100.0% | 3,217 | 282 | -91.2% |
| BORDEN COUNTY LIVESTOCK WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 250 | 175 | -30.0% | 250 | 175 | -30.0% |
| PROJECTED DEMAND TOTAL | 250 | 175 | -30.0% | 250 | 175 | -30.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| BORDEN COUNTY MINING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 679 | 679 | 0.0% | 121 | 121 | 0.0% |
| PROJECTED DEMAND TOTAL | 679 | 679 | 0.0% | 121 | 121 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| BROWN COUNTY COUNTY-OTHER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 204 | 170 | -16.7% | 203 | 169 | -16.7% |
| PROJECTED DEMAND TOTAL | 204 | 170 | -16.7% | 203 | 169 | -16.7% |

*WUG supplies and projected demands are entered for each of a WUG’s region-county-basin divisions. The needs shown in the WUG Data Comparison to 2016 RWP report are calculated by first deducting the WUG split’s projected demand from its total existing water supply volume. If the WUG split has a greater existing 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 county and category level, calculated surpluses are updated to zero so that only the WUGs with needs in the decade are included with the Needs totals.

Region F Water User Group (WUG) Data Comparison to 2016 Regional Water Plan (RWP)*

| | 2020 PLANNING DECADE | | | 2070 PLANNING DECADE | | |
|--|----------------------|----------|----------------|----------------------|----------|----------------|
| | 2016 RWP | 2021 RWP | DIFFERENCE (%) | 2016 RWP | 2021 RWP | DIFFERENCE (%) |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| BROWN COUNTY IRRIGATION WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 6,330 | 6,417 | 1.4% | 6,329 | 6,414 | 1.3% |
| PROJECTED DEMAND TOTAL | 9,435 | 8,125 | -13.9% | 9,275 | 8,125 | -12.4% |
| WATER SUPPLY NEEDS TOTAL | 3,105 | 1,708 | -45.0% | 2,946 | 1,711 | -41.9% |
| BROWN COUNTY LIVESTOCK WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,368 | 1,119 | -18.2% | 1,368 | 1,119 | -18.2% |
| PROJECTED DEMAND TOTAL | 1,353 | 1,119 | -17.3% | 1,353 | 1,119 | -17.3% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| BROWN COUNTY MANUFACTURING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 673 | 548 | -18.6% | 957 | 651 | -32.0% |
| PROJECTED DEMAND TOTAL | 673 | 548 | -18.6% | 957 | 651 | -32.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| BROWN COUNTY MINING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 943 | 682 | -27.7% | 944 | 681 | -27.9% |
| PROJECTED DEMAND TOTAL | 943 | 943 | 0.0% | 944 | 944 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 261 | 100.0% | 0 | 263 | 100.0% |
| BROWN COUNTY MUNICIPAL WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 5,825 | 5,873 | 0.8% | 5,595 | 5,643 | 0.9% |
| PROJECTED DEMAND TOTAL | 5,833 | 5,885 | 0.9% | 5,603 | 5,653 | 0.9% |
| WATER SUPPLY NEEDS TOTAL | 8 | 12 | 50.0% | 8 | 11 | 37.5% |
| COKE COUNTY COUNTY-OTHER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 76 | 110 | 44.7% | 68 | 97 | 42.6% |
| PROJECTED DEMAND TOTAL | 127 | 118 | -7.1% | 113 | 105 | -7.1% |
| WATER SUPPLY NEEDS TOTAL | 51 | 8 | -84.3% | 45 | 8 | -82.2% |
| COKE COUNTY IRRIGATION WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 763 | 689 | -9.7% | 763 | 689 | -9.7% |
| PROJECTED DEMAND TOTAL | 965 | 689 | -28.6% | 962 | 689 | -28.4% |
| WATER SUPPLY NEEDS TOTAL | 202 | 0 | -100.0% | 199 | 0 | -100.0% |
| COKE COUNTY LIVESTOCK WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 431 | 306 | -29.0% | 431 | 306 | -29.0% |
| PROJECTED DEMAND TOTAL | 431 | 306 | -29.0% | 431 | 306 | -29.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| COKE COUNTY MINING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 170 | 488 | 187.1% | 170 | 286 | 68.2% |
| PROJECTED DEMAND TOTAL | 488 | 488 | 0.0% | 286 | 286 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 318 | 0 | -100.0% | 116 | 0 | -100.0% |
| COKE COUNTY MUNICIPAL WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 116 | 127 | 9.5% | 108 | 118 | 9.3% |
| PROJECTED DEMAND TOTAL | 548 | 568 | 3.6% | 528 | 547 | 3.6% |
| WATER SUPPLY NEEDS TOTAL | 432 | 441 | 2.1% | 420 | 429 | 2.1% |
| COKE COUNTY STEAM ELECTRIC POWER WUG TYPE | | | | | | |
| PROJECTED DEMAND TOTAL | 247 | 0 | -100.0% | 528 | 0 | -100.0% |
| WATER SUPPLY NEEDS TOTAL | 247 | 0 | -100.0% | 528 | 0 | -100.0% |

*WUG supplies and projected demands are entered for each of a WUG’s region-county-basin divisions. The needs shown in the WUG Data Comparison to 2016 RWP report are calculated by first deducting the WUG split’s projected demand from its total existing water supply volume. If the WUG split has a greater existing 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 county and category level, calculated surpluses are updated to zero so that only the WUGs with needs in the decade are included with the Needs totals.

Region F Water User Group (WUG) Data Comparison to 2016 Regional Water Plan (RWP)*

| | 2020 PLANNING DECADE | | | 2070 PLANNING DECADE | | |
|--|----------------------|----------|----------------|----------------------|----------|----------------|
| | 2016 RWP | 2021 RWP | DIFFERENCE (%) | 2016 RWP | 2021 RWP | DIFFERENCE (%) |
| COLEMAN COUNTY COUNTY-OTHER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PROJECTED DEMAND TOTAL | 24 | 24 | 0.0% | 22 | 21 | -4.5% |
| WATER SUPPLY NEEDS TOTAL | 24 | 24 | 0.0% | 22 | 21 | -4.5% |
| COLEMAN COUNTY IRRIGATION WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 27 | 69 | 155.6% | 27 | 69 | 155.6% |
| PROJECTED DEMAND TOTAL | 770 | 465 | -39.6% | 770 | 465 | -39.6% |
| WATER SUPPLY NEEDS TOTAL | 743 | 396 | -46.7% | 743 | 396 | -46.7% |
| COLEMAN COUNTY LIVESTOCK WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,076 | 769 | -28.5% | 1,076 | 769 | -28.5% |
| PROJECTED DEMAND TOTAL | 1,076 | 705 | -34.5% | 1,076 | 705 | -34.5% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| COLEMAN COUNTY MANUFACTURING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PROJECTED DEMAND TOTAL | 9 | 2 | -77.8% | 9 | 2 | -77.8% |
| WATER SUPPLY NEEDS TOTAL | 9 | 2 | -77.8% | 9 | 2 | -77.8% |
| COLEMAN COUNTY MINING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 46 | 108 | 134.8% | 46 | 69 | 50.0% |
| PROJECTED DEMAND TOTAL | 108 | 108 | 0.0% | 69 | 69 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 62 | 0 | -100.0% | 23 | 0 | -100.0% |
| COLEMAN COUNTY MUNICIPAL WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 344 | 344 | 0.0% | 325 | 325 | 0.0% |
| PROJECTED DEMAND TOTAL | 1,348 | 1,346 | -0.1% | 1,287 | 1,286 | -0.1% |
| WATER SUPPLY NEEDS TOTAL | 1,004 | 1,002 | -0.2% | 962 | 961 | -0.1% |
| CONCHO COUNTY COUNTY-OTHER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 96 | 94 | -2.1% | 91 | 87 | -4.4% |
| PROJECTED DEMAND TOTAL | 96 | 114 | 18.8% | 91 | 107 | 17.6% |
| WATER SUPPLY NEEDS TOTAL | 0 | 20 | 100.0% | 0 | 20 | 100.0% |
| CONCHO COUNTY IRRIGATION WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 4,485 | 4,902 | 9.3% | 4,485 | 4,902 | 9.3% |
| PROJECTED DEMAND TOTAL | 9,734 | 4,902 | -49.6% | 9,546 | 4,902 | -48.6% |
| WATER SUPPLY NEEDS TOTAL | 5,249 | 0 | -100.0% | 5,061 | 0 | -100.0% |
| CONCHO COUNTY LIVESTOCK WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 699 | 382 | -45.4% | 699 | 382 | -45.4% |
| PROJECTED DEMAND TOTAL | 699 | 382 | -45.4% | 699 | 382 | -45.4% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CONCHO COUNTY MINING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 268 | 480 | 79.1% | 268 | 279 | 4.1% |
| PROJECTED DEMAND TOTAL | 480 | 480 | 0.0% | 279 | 279 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 212 | 0 | -100.0% | 11 | 0 | -100.0% |
| CONCHO COUNTY MUNICIPAL WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 592 | 277 | -53.2% | 566 | 266 | -53.0% |
| PROJECTED DEMAND TOTAL | 577 | 300 | -48.0% | 558 | 293 | -47.5% |
| WATER SUPPLY NEEDS TOTAL | 0 | 23 | 100.0% | 0 | 27 | 100.0% |

*WUG supplies and projected demands are entered for each of a WUG’s region-county-basin divisions. The needs shown in the WUG Data Comparison to 2016 RWP report are calculated by first deducting the WUG split’s projected demand from its total existing water supply volume. If the WUG split has a greater existing 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 county and category level, calculated surpluses are updated to zero so that only the WUGs with needs in the decade are included with the Needs totals.

Region F Water User Group (WUG) Data Comparison to 2016 Regional Water Plan (RWP)*

| | 2020 PLANNING DECADE | | | 2070 PLANNING DECADE | | |
|---|----------------------|----------|----------------|----------------------|----------|----------------|
| | 2016 RWP | 2021 RWP | DIFFERENCE (%) | 2016 RWP | 2021 RWP | DIFFERENCE (%) |
| CRANE COUNTY COUNTY-OTHER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 170 | 170 | 0.0% | 317 | 316 | -0.3% |
| PROJECTED DEMAND TOTAL | 170 | 170 | 0.0% | 317 | 316 | -0.3% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CRANE COUNTY LIVESTOCK WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 172 | 72 | -58.1% | 172 | 72 | -58.1% |
| PROJECTED DEMAND TOTAL | 172 | 72 | -58.1% | 172 | 72 | -58.1% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CRANE COUNTY MANUFACTURING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 0 | 455 | 100.0% | 0 | 468 | 100.0% |
| PROJECTED DEMAND TOTAL | 0 | 455 | 100.0% | 0 | 468 | 100.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CRANE COUNTY MINING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 617 | 617 | 0.0% | 407 | 407 | 0.0% |
| PROJECTED DEMAND TOTAL | 617 | 617 | 0.0% | 407 | 407 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CRANE COUNTY MUNICIPAL WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,262 | 1,261 | -0.1% | 1,576 | 1,575 | -0.1% |
| PROJECTED DEMAND TOTAL | 1,262 | 1,261 | -0.1% | 1,576 | 1,575 | -0.1% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CROCKETT COUNTY COUNTY-OTHER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 28 | 27 | -3.6% | 17 | 17 | 0.0% |
| PROJECTED DEMAND TOTAL | 28 | 27 | -3.6% | 17 | 17 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CROCKETT COUNTY IRRIGATION WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 479 | 135 | -71.8% | 437 | 135 | -69.1% |
| PROJECTED DEMAND TOTAL | 479 | 135 | -71.8% | 437 | 135 | -69.1% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 1 | 0 | -100.0% |
| CROCKETT COUNTY LIVESTOCK WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 695 | 527 | -24.2% | 695 | 527 | -24.2% |
| PROJECTED DEMAND TOTAL | 681 | 527 | -22.6% | 681 | 527 | -22.6% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CROCKETT COUNTY MANUFACTURING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 0 | 14 | 100.0% | 0 | 15 | 100.0% |
| PROJECTED DEMAND TOTAL | 0 | 14 | 100.0% | 0 | 15 | 100.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CROCKETT COUNTY MINING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 550 | 3,227 | 486.7% | 63 | 200 | 217.5% |
| PROJECTED DEMAND TOTAL | 1,732 | 4,500 | 159.8% | 63 | 200 | 217.5% |
| WATER SUPPLY NEEDS TOTAL | 1,182 | 1,273 | 7.7% | 0 | 0 | 0.0% |
| CROCKETT COUNTY MUNICIPAL WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,533 | 1,533 | 0.0% | 1,681 | 1,680 | -0.1% |
| PROJECTED DEMAND TOTAL | 1,533 | 1,533 | 0.0% | 1,681 | 1,680 | -0.1% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

*WUG supplies and projected demands are entered for each of a WUG’s region-county-basin divisions. The needs shown in the WUG Data Comparison to 2016 RWP report are calculated by first deducting the WUG split’s projected demand from its total existing water supply volume. If the WUG split has a greater existing 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 county and category level, calculated surpluses are updated to zero so that only the WUGs with needs in the decade are included with the Needs totals.

Region F Water User Group (WUG) Data Comparison to 2016 Regional Water Plan (RWP)*

| | 2020 PLANNING DECADE | | | 2070 PLANNING DECADE | | |
|--|----------------------|----------|----------------|----------------------|----------|----------------|
| | 2016 RWP | 2021 RWP | DIFFERENCE (%) | 2016 RWP | 2021 RWP | DIFFERENCE (%) |
| CROCKETT COUNTY STEAM ELECTRIC POWER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PROJECTED DEMAND TOTAL | 776 | 0 | -100.0% | 1,662 | 0 | -100.0% |
| WATER SUPPLY NEEDS TOTAL | 776 | 0 | -100.0% | 1,662 | 0 | -100.0% |
| ECTOR COUNTY COUNTY-OTHER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 3,248 | 2,161 | -33.5% | 3,855 | 3,499 | -9.2% |
| PROJECTED DEMAND TOTAL | 3,451 | 2,161 | -37.4% | 5,587 | 3,499 | -37.4% |
| WATER SUPPLY NEEDS TOTAL | 208 | 0 | -100.0% | 1,732 | 0 | -100.0% |
| ECTOR COUNTY IRRIGATION WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,118 | 905 | -19.1% | 740 | 840 | 13.5% |
| PROJECTED DEMAND TOTAL | 1,432 | 756 | -47.2% | 1,345 | 756 | -43.8% |
| WATER SUPPLY NEEDS TOTAL | 314 | 0 | -100.0% | 606 | 0 | -100.0% |
| ECTOR COUNTY LIVESTOCK WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 268 | 199 | -25.7% | 268 | 199 | -25.7% |
| PROJECTED DEMAND TOTAL | 265 | 199 | -24.9% | 265 | 199 | -24.9% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ECTOR COUNTY MANUFACTURING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 4,534 | 2,346 | -48.3% | 5,123 | 2,381 | -53.5% |
| PROJECTED DEMAND TOTAL | 3,454 | 2,152 | -37.7% | 4,209 | 2,381 | -43.4% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ECTOR COUNTY MINING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 2,248 | 2,863 | 27.4% | 1,256 | 2,848 | 126.8% |
| PROJECTED DEMAND TOTAL | 1,977 | 1,977 | 0.0% | 1,076 | 1,076 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ECTOR COUNTY MUNICIPAL WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 13,438 | 12,176 | -9.4% | 20,817 | 17,731 | -14.8% |
| PROJECTED DEMAND TOTAL | 24,069 | 27,119 | 12.7% | 38,613 | 43,835 | 13.5% |
| WATER SUPPLY NEEDS TOTAL | 10,631 | 14,943 | 40.6% | 17,796 | 26,104 | 46.7% |
| ECTOR COUNTY STEAM ELECTRIC POWER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 2,817 | 4,772 | 69.4% | 2,639 | 4,428 | 67.8% |
| PROJECTED DEMAND TOTAL | 9,436 | 4,837 | -48.7% | 21,672 | 4,837 | -77.7% |
| WATER SUPPLY NEEDS TOTAL | 6,619 | 65 | -99.0% | 19,033 | 409 | -97.9% |
| GLASSCOCK COUNTY COUNTY-OTHER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 162 | 161 | -0.6% | 160 | 159 | -0.6% |
| PROJECTED DEMAND TOTAL | 162 | 161 | -0.6% | 160 | 159 | -0.6% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GLASSCOCK COUNTY IRRIGATION WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 56,707 | 51,254 | -9.6% | 54,439 | 51,254 | -5.9% |
| PROJECTED DEMAND TOTAL | 56,707 | 51,254 | -9.6% | 54,439 | 51,254 | -5.9% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GLASSCOCK COUNTY LIVESTOCK WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 262 | 147 | -43.9% | 262 | 147 | -43.9% |
| PROJECTED DEMAND TOTAL | 262 | 147 | -43.9% | 262 | 147 | -43.9% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

*WUG supplies and projected demands are entered for each of a WUG’s region-county-basin divisions. The needs shown in the WUG Data Comparison to 2016 RWP report are calculated by first deducting the WUG split’s projected demand from its total existing water supply volume. If the WUG split has a greater existing 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 county and category level, calculated surpluses are updated to zero so that only the WUGs with needs in the decade are included with the Needs totals.

Region F Water User Group (WUG) Data Comparison to 2016 Regional Water Plan (RWP)*

| | 2020 PLANNING DECADE | | | 2070 PLANNING DECADE | | |
|--|----------------------|----------|----------------|----------------------|----------|----------------|
| | 2016 RWP | 2021 RWP | DIFFERENCE (%) | 2016 RWP | 2021 RWP | DIFFERENCE (%) |
| GLASSCOCK COUNTY MANUFACTURING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 0 | 25 | 100.0% | 0 | 33 | 100.0% |
| PROJECTED DEMAND TOTAL | 0 | 25 | 100.0% | 0 | 33 | 100.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GLASSCOCK COUNTY MINING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 3,423 | 5,900 | 72.4% | 798 | 1,500 | 88.0% |
| PROJECTED DEMAND TOTAL | 3,423 | 5,900 | 72.4% | 798 | 1,500 | 88.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| HOWARD COUNTY COUNTY-OTHER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 447 | 652 | 45.9% | 408 | 642 | 57.4% |
| PROJECTED DEMAND TOTAL | 896 | 652 | -27.2% | 883 | 642 | -27.3% |
| WATER SUPPLY NEEDS TOTAL | 449 | 0 | -100.0% | 475 | 0 | -100.0% |
| HOWARD COUNTY IRRIGATION WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 3,489 | 6,883 | 97.3% | 3,230 | 6,883 | 113.1% |
| PROJECTED DEMAND TOTAL | 6,722 | 6,883 | 2.4% | 6,337 | 6,883 | 8.6% |
| WATER SUPPLY NEEDS TOTAL | 3,233 | 0 | -100.0% | 3,107 | 0 | -100.0% |
| HOWARD COUNTY LIVESTOCK WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 202 | 269 | 33.2% | 187 | 269 | 43.9% |
| PROJECTED DEMAND TOTAL | 316 | 229 | -27.5% | 316 | 229 | -27.5% |
| WATER SUPPLY NEEDS TOTAL | 114 | 0 | -100.0% | 129 | 0 | -100.0% |
| HOWARD COUNTY MANUFACTURING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,429 | 2,889 | 102.2% | 1,363 | 2,857 | 109.6% |
| PROJECTED DEMAND TOTAL | 2,748 | 3,723 | 35.5% | 3,495 | 3,746 | 7.2% |
| WATER SUPPLY NEEDS TOTAL | 1,319 | 834 | -36.8% | 2,132 | 889 | -58.3% |
| HOWARD COUNTY MINING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 163 | 3,400 | 1985.9% | 156 | 300 | 92.3% |
| PROJECTED DEMAND TOTAL | 2,491 | 3,400 | 36.5% | 199 | 300 | 50.8% |
| WATER SUPPLY NEEDS TOTAL | 2,328 | 0 | -100.0% | 43 | 0 | -100.0% |
| HOWARD COUNTY MUNICIPAL WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 3,358 | 3,003 | -10.6% | 3,274 | 2,786 | -14.9% |
| PROJECTED DEMAND TOTAL | 6,332 | 6,753 | 6.6% | 6,424 | 6,852 | 6.7% |
| WATER SUPPLY NEEDS TOTAL | 2,974 | 3,750 | 26.1% | 3,150 | 4,066 | 29.1% |
| HOWARD COUNTY STEAM ELECTRIC POWER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 0 | 325 | 100.0% | 0 | 317 | 100.0% |
| PROJECTED DEMAND TOTAL | 0 | 427 | 100.0% | 0 | 427 | 100.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 102 | 100.0% | 0 | 110 | 100.0% |
| IRION COUNTY COUNTY-OTHER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 105 | 104 | -1.0% | 97 | 97 | 0.0% |
| PROJECTED DEMAND TOTAL | 105 | 104 | -1.0% | 97 | 97 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| IRION COUNTY IRRIGATION WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,108 | 546 | -50.7% | 948 | 546 | -42.4% |
| PROJECTED DEMAND TOTAL | 1,467 | 1,053 | -28.2% | 1,307 | 1,053 | -19.4% |
| WATER SUPPLY NEEDS TOTAL | 359 | 507 | 41.2% | 359 | 507 | 41.2% |

*WUG supplies and projected demands are entered for each of a WUG’s region-county-basin divisions. The needs shown in the WUG Data Comparison to 2016 RWP report are calculated by first deducting the WUG split’s projected demand from its total existing water supply volume. If the WUG split has a greater existing 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 county and category level, calculated surpluses are updated to zero so that only the WUGs with needs in the decade are included with the Needs totals.

Region F Water User Group (WUG) Data Comparison to 2016 Regional Water Plan (RWP)*

| | 2020 PLANNING DECADE | | | 2070 PLANNING DECADE | | |
|---|----------------------|----------|----------------|----------------------|----------|----------------|
| | 2016 RWP | 2021 RWP | DIFFERENCE (%) | 2016 RWP | 2021 RWP | DIFFERENCE (%) |
| IRION COUNTY LIVESTOCK WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 268 | 232 | -13.4% | 268 | 232 | -13.4% |
| PROJECTED DEMAND TOTAL | 268 | 232 | -13.4% | 268 | 232 | -13.4% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| IRION COUNTY MANUFACTURING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 0 | 6 | 100.0% | 0 | 7 | 100.0% |
| PROJECTED DEMAND TOTAL | 0 | 6 | 100.0% | 0 | 7 | 100.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| IRION COUNTY MINING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,373 | 2,741 | 99.6% | 342 | 500 | 46.2% |
| PROJECTED DEMAND TOTAL | 3,192 | 4,600 | 44.1% | 342 | 500 | 46.2% |
| WATER SUPPLY NEEDS TOTAL | 1,819 | 1,859 | 2.2% | 0 | 0 | 0.0% |
| IRION COUNTY MUNICIPAL WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 102 | 101 | -1.0% | 95 | 94 | -1.1% |
| PROJECTED DEMAND TOTAL | 102 | 101 | -1.0% | 95 | 94 | -1.1% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| KIMBLE COUNTY COUNTY-OTHER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 242 | 254 | 5.0% | 225 | 236 | 4.9% |
| PROJECTED DEMAND TOTAL | 255 | 254 | -0.4% | 237 | 236 | -0.4% |
| WATER SUPPLY NEEDS TOTAL | 13 | 0 | -100.0% | 12 | 0 | -100.0% |
| KIMBLE COUNTY IRRIGATION WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,443 | 1,554 | 7.7% | 1,443 | 1,554 | 7.7% |
| PROJECTED DEMAND TOTAL | 2,939 | 2,657 | -9.6% | 2,400 | 2,657 | 10.7% |
| WATER SUPPLY NEEDS TOTAL | 1,496 | 1,103 | -26.3% | 957 | 1,103 | 15.3% |
| KIMBLE COUNTY LIVESTOCK WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 402 | 320 | -20.4% | 402 | 320 | -20.4% |
| PROJECTED DEMAND TOTAL | 402 | 320 | -20.4% | 402 | 320 | -20.4% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| KIMBLE COUNTY MANUFACTURING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 2 | 2 | 0.0% | 2 | 2 | 0.0% |
| PROJECTED DEMAND TOTAL | 701 | 605 | -13.7% | 985 | 706 | -28.3% |
| WATER SUPPLY NEEDS TOTAL | 699 | 603 | -13.7% | 983 | 704 | -28.4% |
| KIMBLE COUNTY MINING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 19 | 19 | 0.0% | 19 | 19 | 0.0% |
| PROJECTED DEMAND TOTAL | 19 | 19 | 0.0% | 19 | 19 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| KIMBLE COUNTY MUNICIPAL WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PROJECTED DEMAND TOTAL | 627 | 626 | -0.2% | 604 | 604 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 627 | 626 | -0.2% | 604 | 604 | 0.0% |
| LOVING COUNTY COUNTY-OTHER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 11 | 10 | -9.1% | 10 | 9 | -10.0% |
| PROJECTED DEMAND TOTAL | 11 | 10 | -9.1% | 10 | 9 | -10.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

*WUG supplies and projected demands are entered for each of a WUG’s region-county-basin divisions. The needs shown in the WUG Data Comparison to 2016 RWP report are calculated by first deducting the WUG split’s projected demand from its total existing water supply volume. If the WUG split has a greater existing 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 county and category level, calculated surpluses are updated to zero so that only the WUGs with needs in the decade are included with the Needs totals.

Region F Water User Group (WUG) Data Comparison to 2016 Regional Water Plan (RWP)*

| | 2020 PLANNING DECADE | | | 2070 PLANNING DECADE | | |
|---|----------------------|----------|----------------|----------------------|----------|----------------|
| | 2016 RWP | 2021 RWP | DIFFERENCE (%) | 2016 RWP | 2021 RWP | DIFFERENCE (%) |
| LOVING COUNTY LIVESTOCK WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 101 | 32 | -68.3% | 101 | 32 | -68.3% |
| PROJECTED DEMAND TOTAL | 101 | 32 | -68.3% | 101 | 32 | -68.3% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| LOVING COUNTY MINING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 792 | 3,594 | 353.8% | 474 | 2,400 | 406.3% |
| PROJECTED DEMAND TOTAL | 792 | 7,500 | 847.0% | 474 | 3,400 | 617.3% |
| WATER SUPPLY NEEDS TOTAL | 0 | 3,906 | 100.0% | 0 | 1,000 | 100.0% |
| MARTIN COUNTY COUNTY-OTHER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 131 | 358 | 173.3% | 175 | 438 | 150.3% |
| PROJECTED DEMAND TOTAL | 342 | 358 | 4.7% | 418 | 438 | 4.8% |
| WATER SUPPLY NEEDS TOTAL | 211 | 0 | -100.0% | 243 | 0 | -100.0% |
| MARTIN COUNTY IRRIGATION WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 11,165 | 36,491 | 226.8% | 11,079 | 33,112 | 198.9% |
| PROJECTED DEMAND TOTAL | 36,322 | 36,491 | 0.5% | 33,123 | 36,491 | 10.2% |
| WATER SUPPLY NEEDS TOTAL | 25,157 | 0 | -100.0% | 22,044 | 3,379 | -84.7% |
| MARTIN COUNTY LIVESTOCK WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 90 | 119 | 32.2% | 93 | 119 | 28.0% |
| PROJECTED DEMAND TOTAL | 128 | 119 | -7.0% | 128 | 119 | -7.0% |
| WATER SUPPLY NEEDS TOTAL | 38 | 0 | -100.0% | 35 | 0 | -100.0% |
| MARTIN COUNTY MANUFACTURING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 16 | 0 | -100.0% | 21 | 0 | -100.0% |
| PROJECTED DEMAND TOTAL | 41 | 0 | -100.0% | 50 | 0 | -100.0% |
| WATER SUPPLY NEEDS TOTAL | 25 | 0 | -100.0% | 29 | 0 | -100.0% |
| MARTIN COUNTY MINING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 488 | 7,200 | 1375.4% | 531 | 4,485 | 744.6% |
| PROJECTED DEMAND TOTAL | 3,527 | 7,200 | 104.1% | 413 | 1,000 | 142.1% |
| WATER SUPPLY NEEDS TOTAL | 3,039 | 0 | -100.0% | 0 | 0 | 0.0% |
| MARTIN COUNTY MUNICIPAL WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 294 | 315 | 7.1% | 357 | 303 | -15.1% |
| PROJECTED DEMAND TOTAL | 539 | 514 | -4.6% | 677 | 646 | -4.6% |
| WATER SUPPLY NEEDS TOTAL | 245 | 199 | -18.8% | 320 | 343 | 7.2% |
| MASON COUNTY COUNTY-OTHER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 225 | 231 | 2.7% | 208 | 214 | 2.9% |
| PROJECTED DEMAND TOTAL | 234 | 231 | -1.3% | 217 | 214 | -1.4% |
| WATER SUPPLY NEEDS TOTAL | 9 | 0 | -100.0% | 9 | 0 | -100.0% |
| MASON COUNTY IRRIGATION WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 8,353 | 4,966 | -40.5% | 7,758 | 4,966 | -36.0% |
| PROJECTED DEMAND TOTAL | 8,294 | 4,966 | -40.1% | 7,699 | 4,966 | -35.5% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MASON COUNTY LIVESTOCK WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,248 | 714 | -42.8% | 1,248 | 714 | -42.8% |
| PROJECTED DEMAND TOTAL | 1,248 | 714 | -42.8% | 1,248 | 714 | -42.8% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

*WUG supplies and projected demands are entered for each of a WUG’s region-county-basin divisions. The needs shown in the WUG Data Comparison to 2016 RWP report are calculated by first deducting the WUG split’s projected demand from its total existing water supply volume. If the WUG split has a greater existing 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 county and category level, calculated surpluses are updated to zero so that only the WUGs with needs in the decade are included with the Needs totals.

Region F Water User Group (WUG) Data Comparison to 2016 Regional Water Plan (RWP)*

| | 2020 PLANNING DECADE | | | 2070 PLANNING DECADE | | |
|--|----------------------|----------|----------------|----------------------|----------|----------------|
| | 2016 RWP | 2021 RWP | DIFFERENCE (%) | 2016 RWP | 2021 RWP | DIFFERENCE (%) |
| MASON COUNTY MINING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,025 | 1,023 | -0.2% | 374 | 372 | -0.5% |
| PROJECTED DEMAND TOTAL | 1,023 | 1,023 | 0.0% | 372 | 372 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MASON COUNTY MUNICIPAL WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PROJECTED DEMAND TOTAL | 694 | 700 | 0.9% | 671 | 676 | 0.7% |
| WATER SUPPLY NEEDS TOTAL | 694 | 700 | 0.9% | 671 | 676 | 0.7% |
| MCCULLOCH COUNTY COUNTY-OTHER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 57 | 132 | 131.6% | 59 | 135 | 128.8% |
| PROJECTED DEMAND TOTAL | 92 | 132 | 43.5% | 95 | 135 | 42.1% |
| WATER SUPPLY NEEDS TOTAL | 35 | 0 | -100.0% | 36 | 0 | -100.0% |
| MCCULLOCH COUNTY IRRIGATION WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,400 | 2,324 | 66.0% | 1,417 | 2,324 | 64.0% |
| PROJECTED DEMAND TOTAL | 3,584 | 2,324 | -35.2% | 3,361 | 2,324 | -30.9% |
| WATER SUPPLY NEEDS TOTAL | 2,184 | 0 | -100.0% | 1,944 | 0 | -100.0% |
| MCCULLOCH COUNTY LIVESTOCK WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 690 | 651 | -5.7% | 690 | 651 | -5.7% |
| PROJECTED DEMAND TOTAL | 714 | 651 | -8.8% | 714 | 651 | -8.8% |
| WATER SUPPLY NEEDS TOTAL | 24 | 0 | -100.0% | 24 | 0 | -100.0% |
| MCCULLOCH COUNTY MANUFACTURING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 299 | 523 | 74.9% | 435 | 609 | 40.0% |
| PROJECTED DEMAND TOTAL | 500 | 523 | 4.6% | 719 | 609 | -15.3% |
| WATER SUPPLY NEEDS TOTAL | 201 | 0 | -100.0% | 284 | 0 | -100.0% |
| MCCULLOCH COUNTY MINING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 5,309 | 8,928 | 68.2% | 4,201 | 4,202 | 0.0% |
| PROJECTED DEMAND TOTAL | 8,927 | 8,927 | 0.0% | 4,201 | 4,201 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 3,618 | 0 | -100.0% | 0 | 0 | 0.0% |
| MCCULLOCH COUNTY MUNICIPAL WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 487 | 424 | -12.9% | 474 | 411 | -13.3% |
| PROJECTED DEMAND TOTAL | 1,718 | 1,773 | 3.2% | 1,740 | 1,801 | 3.5% |
| WATER SUPPLY NEEDS TOTAL | 1,389 | 1,427 | 2.7% | 1,412 | 1,460 | 3.4% |
| MENARD COUNTY COUNTY-OTHER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 95 | 92 | -3.2% | 87 | 84 | -3.4% |
| PROJECTED DEMAND TOTAL | 95 | 92 | -3.2% | 87 | 84 | -3.4% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MENARD COUNTY IRRIGATION WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 2,104 | 3,663 | 74.1% | 2,104 | 3,663 | 74.1% |
| PROJECTED DEMAND TOTAL | 2,530 | 3,663 | 44.8% | 2,489 | 3,663 | 47.2% |
| WATER SUPPLY NEEDS TOTAL | 426 | 0 | -100.0% | 385 | 0 | -100.0% |
| MENARD COUNTY LIVESTOCK WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 426 | 294 | -31.0% | 426 | 294 | -31.0% |
| PROJECTED DEMAND TOTAL | 408 | 294 | -27.9% | 408 | 294 | -27.9% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

*WUG supplies and projected demands are entered for each of a WUG's region-county-basin divisions. The needs shown in the WUG Data Comparison to 2016 RWP report are calculated by first deducting the WUG split's projected demand from its total existing water supply volume. If the WUG split has a greater existing 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 county and category level, calculated surpluses are updated to zero so that only the WUGs with needs in the decade are included with the Needs totals.

Region F Water User Group (WUG) Data Comparison to 2016 Regional Water Plan (RWP)*

| | 2020 PLANNING DECADE | | | 2070 PLANNING DECADE | | |
|--|----------------------|----------|----------------|----------------------|----------|----------------|
| | 2016 RWP | 2021 RWP | DIFFERENCE (%) | 2016 RWP | 2021 RWP | DIFFERENCE (%) |
| MENARD COUNTY MANUFACTURING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 3 | 0 | -100.0% | 3 | 0 | -100.0% |
| PROJECTED DEMAND TOTAL | 3 | 0 | -100.0% | 3 | 0 | -100.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MENARD COUNTY MINING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,086 | 1,086 | 0.0% | 622 | 622 | 0.0% |
| PROJECTED DEMAND TOTAL | 1,086 | 1,086 | 0.0% | 622 | 622 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MENARD COUNTY MUNICIPAL WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 136 | 139 | 2.2% | 136 | 139 | 2.2% |
| PROJECTED DEMAND TOTAL | 346 | 350 | 1.2% | 331 | 335 | 1.2% |
| WATER SUPPLY NEEDS TOTAL | 210 | 211 | 0.5% | 195 | 196 | 0.5% |
| MIDLAND COUNTY COUNTY-OTHER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 4,232 | 3,253 | -23.1% | 6,510 | 4,819 | -26.0% |
| PROJECTED DEMAND TOTAL | 4,232 | 3,253 | -23.1% | 6,510 | 4,819 | -26.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MIDLAND COUNTY IRRIGATION WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 33,276 | 18,107 | -45.6% | 31,981 | 18,107 | -43.4% |
| PROJECTED DEMAND TOTAL | 33,276 | 18,107 | -45.6% | 31,981 | 18,107 | -43.4% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MIDLAND COUNTY LIVESTOCK WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 394 | 243 | -38.3% | 394 | 243 | -38.3% |
| PROJECTED DEMAND TOTAL | 394 | 243 | -38.3% | 394 | 243 | -38.3% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MIDLAND COUNTY MANUFACTURING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 230 | 981 | 326.5% | 335 | 1,177 | 251.3% |
| PROJECTED DEMAND TOTAL | 230 | 981 | 326.5% | 335 | 1,177 | 251.3% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MIDLAND COUNTY MINING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 3,893 | 10,600 | 172.3% | 743 | 3,103 | 317.6% |
| PROJECTED DEMAND TOTAL | 3,893 | 10,600 | 172.3% | 743 | 2,300 | 209.6% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MIDLAND COUNTY MUNICIPAL WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 30,150 | 30,402 | 0.8% | 17,053 | 16,259 | -4.7% |
| PROJECTED DEMAND TOTAL | 33,238 | 29,000 | -12.8% | 48,502 | 44,073 | -9.1% |
| WATER SUPPLY NEEDS TOTAL | 3,088 | 267 | -91.4% | 31,449 | 27,814 | -11.6% |
| MITCHELL COUNTY COUNTY-OTHER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 843 | 545 | -35.3% | 875 | 553 | -36.8% |
| PROJECTED DEMAND TOTAL | 843 | 545 | -35.3% | 875 | 553 | -36.8% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MITCHELL COUNTY IRRIGATION WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 11,519 | 11,203 | -2.7% | 11,236 | 11,305 | 0.6% |
| PROJECTED DEMAND TOTAL | 11,519 | 12,787 | 11.0% | 11,236 | 12,787 | 13.8% |
| WATER SUPPLY NEEDS TOTAL | 0 | 1,584 | 100.0% | 0 | 1,482 | 100.0% |

*WUG supplies and projected demands are entered for each of a WUG’s region-county-basin divisions. The needs shown in the WUG Data Comparison to 2016 RWP report are calculated by first deducting the WUG split’s projected demand from its total existing water supply volume. If the WUG split has a greater existing 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 county and category level, calculated surpluses are updated to zero so that only the WUGs with needs in the decade are included with the Needs totals.

Region F Water User Group (WUG) Data Comparison to 2016 Regional Water Plan (RWP)*

| | 2020 PLANNING DECADE | | | 2070 PLANNING DECADE | | |
|--|----------------------|----------|----------------|----------------------|----------|----------------|
| | 2016 RWP | 2021 RWP | DIFFERENCE (%) | 2016 RWP | 2021 RWP | DIFFERENCE (%) |
| MITCHELL COUNTY LIVESTOCK WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 413 | 376 | -9.0% | 413 | 376 | -9.0% |
| PROJECTED DEMAND TOTAL | 413 | 376 | -9.0% | 413 | 376 | -9.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MITCHELL COUNTY MANUFACTURING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 0 | 4 | 100.0% | 0 | 5 | 100.0% |
| PROJECTED DEMAND TOTAL | 0 | 4 | 100.0% | 0 | 5 | 100.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MITCHELL COUNTY MINING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 593 | 593 | 0.0% | 290 | 290 | 0.0% |
| PROJECTED DEMAND TOTAL | 593 | 593 | 0.0% | 290 | 290 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MITCHELL COUNTY MUNICIPAL WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,360 | 1,594 | 17.2% | 1,539 | 1,602 | 4.1% |
| PROJECTED DEMAND TOTAL | 1,360 | 1,594 | 17.2% | 1,539 | 1,785 | 16.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 183 | 100.0% |
| MITCHELL COUNTY STEAM ELECTRIC POWER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PROJECTED DEMAND TOTAL | 4,847 | 10,326 | 113.0% | 3,994 | 10,326 | 158.5% |
| WATER SUPPLY NEEDS TOTAL | 4,847 | 10,326 | 113.0% | 3,994 | 10,326 | 158.5% |
| PECOS COUNTY COUNTY-OTHER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 415 | 110 | -73.5% | 522 | 197 | -62.3% |
| PROJECTED DEMAND TOTAL | 415 | 110 | -73.5% | 522 | 197 | -62.3% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PECOS COUNTY IRRIGATION WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 126,028 | 143,345 | 13.7% | 126,033 | 143,345 | 13.7% |
| PROJECTED DEMAND TOTAL | 126,023 | 143,345 | 13.7% | 126,023 | 143,345 | 13.7% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PECOS COUNTY LIVESTOCK WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 932 | 687 | -26.3% | 932 | 687 | -26.3% |
| PROJECTED DEMAND TOTAL | 932 | 687 | -26.3% | 932 | 687 | -26.3% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PECOS COUNTY MANUFACTURING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 103 | 252 | 144.7% | 103 | 272 | 164.1% |
| PROJECTED DEMAND TOTAL | 103 | 413 | 301.0% | 103 | 433 | 320.4% |
| WATER SUPPLY NEEDS TOTAL | 0 | 161 | 100.0% | 0 | 161 | 100.0% |
| PECOS COUNTY MINING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 690 | 4,200 | 508.7% | 524 | 4,200 | 701.5% |
| PROJECTED DEMAND TOTAL | 690 | 7,700 | 1015.9% | 524 | 3,700 | 606.1% |
| WATER SUPPLY NEEDS TOTAL | 0 | 3,500 | 100.0% | 0 | 0 | 0.0% |
| PECOS COUNTY MUNICIPAL WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 5,808 | 5,884 | 1.3% | 7,529 | 7,620 | 1.2% |
| PROJECTED DEMAND TOTAL | 5,808 | 5,884 | 1.3% | 7,529 | 7,620 | 1.2% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

*WUG supplies and projected demands are entered for each of a WUG’s region-county-basin divisions. The needs shown in the WUG Data Comparison to 2016 RWP report are calculated by first deducting the WUG split’s projected demand from its total existing water supply volume. If the WUG split has a greater existing 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 county and category level, calculated surpluses are updated to zero so that only the WUGs with needs in the decade are included with the Needs totals.

Region F Water User Group (WUG) Data Comparison to 2016 Regional Water Plan (RWP)*

| | 2020 PLANNING DECADE | | | 2070 PLANNING DECADE | | |
|---|----------------------|----------|----------------|----------------------|----------|----------------|
| | 2016 RWP | 2021 RWP | DIFFERENCE (%) | 2016 RWP | 2021 RWP | DIFFERENCE (%) |
| REAGAN COUNTY COUNTY-OTHER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 70 | 70 | 0.0% | 87 | 87 | 0.0% |
| PROJECTED DEMAND TOTAL | 70 | 70 | 0.0% | 87 | 87 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| REAGAN COUNTY IRRIGATION WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 19,130 | 22,031 | 15.2% | 17,537 | 22,031 | 25.6% |
| PROJECTED DEMAND TOTAL | 19,130 | 22,031 | 15.2% | 17,537 | 22,031 | 25.6% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| REAGAN COUNTY LIVESTOCK WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 266 | 183 | -31.2% | 266 | 183 | -31.2% |
| PROJECTED DEMAND TOTAL | 255 | 183 | -28.2% | 255 | 183 | -28.2% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| REAGAN COUNTY MINING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 4,226 | 10,600 | 150.8% | 214 | 4,485 | 1995.8% |
| PROJECTED DEMAND TOTAL | 4,211 | 10,600 | 151.7% | 199 | 600 | 201.5% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| REAGAN COUNTY MUNICIPAL WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 731 | 730 | -0.1% | 929 | 928 | -0.1% |
| PROJECTED DEMAND TOTAL | 731 | 730 | -0.1% | 929 | 928 | -0.1% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| REEVES COUNTY COUNTY-OTHER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 503 | 532 | 5.8% | 594 | 628 | 5.7% |
| PROJECTED DEMAND TOTAL | 503 | 532 | 5.8% | 594 | 628 | 5.7% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| REEVES COUNTY IRRIGATION WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 91,357 | 58,937 | -35.5% | 87,475 | 58,937 | -32.6% |
| PROJECTED DEMAND TOTAL | 91,357 | 58,937 | -35.5% | 87,475 | 58,937 | -32.6% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| REEVES COUNTY LIVESTOCK WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 863 | 368 | -57.4% | 863 | 368 | -57.4% |
| PROJECTED DEMAND TOTAL | 862 | 368 | -57.3% | 862 | 368 | -57.3% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| REEVES COUNTY MANUFACTURING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 197 | 286 | 45.2% | 233 | 305 | 30.9% |
| PROJECTED DEMAND TOTAL | 197 | 286 | 45.2% | 233 | 305 | 30.9% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| REEVES COUNTY MINING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,531 | 2,200 | 43.7% | 1,288 | 2,200 | 70.8% |
| PROJECTED DEMAND TOTAL | 1,531 | 12,600 | 723.0% | 1,288 | 6,200 | 381.4% |
| WATER SUPPLY NEEDS TOTAL | 0 | 10,400 | 100.0% | 0 | 4,000 | 100.0% |
| REEVES COUNTY MUNICIPAL WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 3,576 | 3,577 | 0.0% | 4,250 | 4,229 | -0.5% |
| PROJECTED DEMAND TOTAL | 3,576 | 3,565 | -0.3% | 4,250 | 4,239 | -0.3% |
| WATER SUPPLY NEEDS TOTAL | 0 | 107 | 100.0% | 0 | 147 | 100.0% |

*WUG supplies and projected demands are entered for each of a WUG’s region-county-basin divisions. The needs shown in the WUG Data Comparison to 2016 RWP report are calculated by first deducting the WUG split’s projected demand from its total existing water supply volume. If the WUG split has a greater existing 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 county and category level, calculated surpluses are updated to zero so that only the WUGs with needs in the decade are included with the Needs totals.

Region F Water User Group (WUG) Data Comparison to 2016 Regional Water Plan (RWP)*

| | 2020 PLANNING DECADE | | | 2070 PLANNING DECADE | | |
|--|----------------------|----------|----------------|----------------------|----------|----------------|
| | 2016 RWP | 2021 RWP | DIFFERENCE (%) | 2016 RWP | 2021 RWP | DIFFERENCE (%) |
| RUNNELS COUNTY COUNTY-OTHER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 51 | 43 | -15.7% | 10 | 37 | 270.0% |
| PROJECTED DEMAND TOTAL | 252 | 76 | -69.8% | 234 | 66 | -71.8% |
| WATER SUPPLY NEEDS TOTAL | 201 | 33 | -83.6% | 224 | 29 | -87.1% |
| RUNNELS COUNTY IRRIGATION WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 2,367 | 3,105 | 31.2% | 2,367 | 3,105 | 31.2% |
| PROJECTED DEMAND TOTAL | 4,009 | 3,105 | -22.5% | 3,919 | 3,105 | -20.8% |
| WATER SUPPLY NEEDS TOTAL | 1,642 | 0 | -100.0% | 1,552 | 0 | -100.0% |
| RUNNELS COUNTY LIVESTOCK WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 880 | 705 | -19.9% | 880 | 705 | -19.9% |
| PROJECTED DEMAND TOTAL | 880 | 705 | -19.9% | 880 | 705 | -19.9% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| RUNNELS COUNTY MANUFACTURING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 2 | 10 | 400.0% | 0 | 11 | 100.0% |
| PROJECTED DEMAND TOTAL | 48 | 10 | -79.2% | 69 | 11 | -84.1% |
| WATER SUPPLY NEEDS TOTAL | 46 | 0 | -100.0% | 69 | 0 | -100.0% |
| RUNNELS COUNTY MINING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 177 | 272 | 53.7% | 177 | 161 | -9.0% |
| PROJECTED DEMAND TOTAL | 272 | 272 | 0.0% | 161 | 161 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 95 | 0 | -100.0% | 0 | 0 | 0.0% |
| RUNNELS COUNTY MUNICIPAL WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 308 | 349 | 13.3% | 121 | 311 | 157.0% |
| PROJECTED DEMAND TOTAL | 1,144 | 1,325 | 15.8% | 1,100 | 1,274 | 15.8% |
| WATER SUPPLY NEEDS TOTAL | 851 | 976 | 14.7% | 988 | 963 | -2.5% |
| SCHLEICHER COUNTY COUNTY-OTHER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 292 | 247 | -15.4% | 373 | 321 | -13.9% |
| PROJECTED DEMAND TOTAL | 269 | 247 | -8.2% | 343 | 321 | -6.4% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SCHLEICHER COUNTY IRRIGATION WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,414 | 1,811 | 28.1% | 1,270 | 1,811 | 42.6% |
| PROJECTED DEMAND TOTAL | 1,414 | 1,811 | 28.1% | 1,270 | 1,811 | 42.6% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SCHLEICHER COUNTY LIVESTOCK WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 552 | 389 | -29.5% | 552 | 389 | -29.5% |
| PROJECTED DEMAND TOTAL | 535 | 389 | -27.3% | 535 | 389 | -27.3% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SCHLEICHER COUNTY MINING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 661 | 621 | -6.1% | 158 | 148 | -6.3% |
| PROJECTED DEMAND TOTAL | 621 | 621 | 0.0% | 148 | 148 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SCHLEICHER COUNTY MUNICIPAL WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 614 | 662 | 7.8% | 593 | 638 | 7.6% |
| PROJECTED DEMAND TOTAL | 614 | 662 | 7.8% | 593 | 638 | 7.6% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

*WUG supplies and projected demands are entered for each of a WUG’s region-county-basin divisions. The needs shown in the WUG Data Comparison to 2016 RWP report are calculated by first deducting the WUG split’s projected demand from its total existing water supply volume. If the WUG split has a greater existing 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 county and category level, calculated surpluses are updated to zero so that only the WUGs with needs in the decade are included with the Needs totals.

Region F Water User Group (WUG) Data Comparison to 2016 Regional Water Plan (RWP)*

| | 2020 PLANNING DECADE | | | 2070 PLANNING DECADE | | |
|--|----------------------|----------|----------------|----------------------|----------|----------------|
| | 2016 RWP | 2021 RWP | DIFFERENCE (%) | 2016 RWP | 2021 RWP | DIFFERENCE (%) |
| SCURRY COUNTY COUNTY-OTHER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 314 | 268 | -14.6% | 373 | 300 | -19.6% |
| PROJECTED DEMAND TOTAL | 763 | 808 | 5.9% | 1,021 | 1,085 | 6.3% |
| WATER SUPPLY NEEDS TOTAL | 449 | 540 | 20.3% | 648 | 785 | 21.1% |
| SCURRY COUNTY IRRIGATION WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 984 | 1,028 | 4.5% | 923 | 996 | 7.9% |
| PROJECTED DEMAND TOTAL | 7,305 | 7,559 | 3.5% | 6,088 | 7,559 | 24.2% |
| WATER SUPPLY NEEDS TOTAL | 6,321 | 6,531 | 3.3% | 5,165 | 6,563 | 27.1% |
| SCURRY COUNTY LIVESTOCK WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 412 | 461 | 11.9% | 413 | 461 | 11.6% |
| PROJECTED DEMAND TOTAL | 504 | 461 | -8.5% | 504 | 461 | -8.5% |
| WATER SUPPLY NEEDS TOTAL | 92 | 0 | -100.0% | 91 | 0 | -100.0% |
| SCURRY COUNTY MANUFACTURING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 3 | 26 | 766.7% | 3 | 30 | 900.0% |
| PROJECTED DEMAND TOTAL | 3 | 156 | 5100.0% | 3 | 186 | 6100.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 130 | 100.0% | 0 | 156 | 100.0% |
| SCURRY COUNTY MINING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 48 | 38 | -20.8% | 46 | 23 | -50.0% |
| PROJECTED DEMAND TOTAL | 280 | 280 | 0.0% | 167 | 167 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 232 | 242 | 4.3% | 121 | 144 | 19.0% |
| SCURRY COUNTY MUNICIPAL WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,178 | 880 | -25.3% | 1,647 | 1,172 | -28.8% |
| PROJECTED DEMAND TOTAL | 2,036 | 1,980 | -2.8% | 2,963 | 2,882 | -2.7% |
| WATER SUPPLY NEEDS TOTAL | 858 | 1,100 | 28.2% | 1,316 | 1,710 | 29.9% |
| STERLING COUNTY COUNTY-OTHER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 33 | 32 | -3.0% | 33 | 32 | -3.0% |
| PROJECTED DEMAND TOTAL | 33 | 32 | -3.0% | 33 | 32 | -3.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| STERLING COUNTY IRRIGATION WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 983 | 899 | -8.5% | 782 | 899 | 15.0% |
| PROJECTED DEMAND TOTAL | 983 | 899 | -8.5% | 782 | 899 | 15.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| STERLING COUNTY LIVESTOCK WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 322 | 234 | -27.3% | 322 | 234 | -27.3% |
| PROJECTED DEMAND TOTAL | 322 | 234 | -27.3% | 322 | 234 | -27.3% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| STERLING COUNTY MINING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 780 | 780 | 0.0% | 140 | 140 | 0.0% |
| PROJECTED DEMAND TOTAL | 780 | 780 | 0.0% | 140 | 140 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| STERLING COUNTY MUNICIPAL WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 276 | 276 | 0.0% | 281 | 280 | -0.4% |
| PROJECTED DEMAND TOTAL | 276 | 276 | 0.0% | 281 | 280 | -0.4% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

*WUG supplies and projected demands are entered for each of a WUG’s region-county-basin divisions. The needs shown in the WUG Data Comparison to 2016 RWP report are calculated by first deducting the WUG split’s projected demand from its total existing water supply volume. If the WUG split has a greater existing 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 county and category level, calculated surpluses are updated to zero so that only the WUGs with needs in the decade are included with the Needs totals.

Region F Water User Group (WUG) Data Comparison to 2016 Regional Water Plan (RWP)*

| | 2020 PLANNING DECADE | | | 2070 PLANNING DECADE | | |
|--|----------------------|----------|----------------|----------------------|----------|----------------|
| | 2016 RWP | 2021 RWP | DIFFERENCE (%) | 2016 RWP | 2021 RWP | DIFFERENCE (%) |
| SUTTON COUNTY COUNTY-OTHER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 167 | 141 | -15.6% | 179 | 150 | -16.2% |
| PROJECTED DEMAND TOTAL | 167 | 141 | -15.6% | 179 | 150 | -16.2% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SUTTON COUNTY IRRIGATION WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,803 | 1,120 | -37.9% | 1,629 | 1,120 | -31.2% |
| PROJECTED DEMAND TOTAL | 1,803 | 1,120 | -37.9% | 1,629 | 1,120 | -31.2% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SUTTON COUNTY LIVESTOCK WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 489 | 444 | -9.2% | 489 | 444 | -9.2% |
| PROJECTED DEMAND TOTAL | 479 | 444 | -7.3% | 479 | 444 | -7.3% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SUTTON COUNTY MANUFACTURING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 0 | 3 | 100.0% | 0 | 3 | 100.0% |
| PROJECTED DEMAND TOTAL | 0 | 3 | 100.0% | 0 | 3 | 100.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SUTTON COUNTY MINING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 446 | 446 | 0.0% | 264 | 264 | 0.0% |
| PROJECTED DEMAND TOTAL | 446 | 446 | 0.0% | 264 | 264 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SUTTON COUNTY MUNICIPAL WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,239 | 1,045 | -15.7% | 1,380 | 1,156 | -16.2% |
| PROJECTED DEMAND TOTAL | 1,239 | 1,045 | -15.7% | 1,380 | 1,156 | -16.2% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TOM GREEN COUNTY COUNTY-OTHER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 750 | 1,177 | 56.9% | 750 | 1,161 | 54.8% |
| PROJECTED DEMAND TOTAL | 1,306 | 1,011 | -22.6% | 1,518 | 1,106 | -27.1% |
| WATER SUPPLY NEEDS TOTAL | 556 | 0 | -100.0% | 768 | 0 | -100.0% |
| TOM GREEN COUNTY IRRIGATION WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 61,928 | 43,051 | -30.5% | 61,828 | 42,825 | -30.7% |
| PROJECTED DEMAND TOTAL | 93,579 | 42,493 | -54.6% | 92,432 | 42,493 | -54.0% |
| WATER SUPPLY NEEDS TOTAL | 31,651 | 0 | -100.0% | 30,604 | 0 | -100.0% |
| TOM GREEN COUNTY LIVESTOCK WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,705 | 1,125 | -34.0% | 1,705 | 1,125 | -34.0% |
| PROJECTED DEMAND TOTAL | 1,688 | 1,125 | -33.4% | 1,688 | 1,125 | -33.4% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TOM GREEN COUNTY MANUFACTURING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,176 | 762 | -35.2% | 1,174 | 747 | -36.4% |
| PROJECTED DEMAND TOTAL | 2,387 | 850 | -64.4% | 3,531 | 962 | -72.8% |
| WATER SUPPLY NEEDS TOTAL | 1,211 | 88 | -92.7% | 2,357 | 215 | -90.9% |
| TOM GREEN COUNTY MINING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,056 | 1,056 | 0.0% | 1,156 | 1,156 | 0.0% |
| PROJECTED DEMAND TOTAL | 1,056 | 1,056 | 0.0% | 1,156 | 1,156 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

*WUG supplies and projected demands are entered for each of a WUG’s region-county-basin divisions. The needs shown in the WUG Data Comparison to 2016 RWP report are calculated by first deducting the WUG split’s projected demand from its total existing water supply volume. If the WUG split has a greater existing 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 county and category level, calculated surpluses are updated to zero so that only the WUGs with needs in the decade are included with the Needs totals.

Region F Water User Group (WUG) Data Comparison to 2016 Regional Water Plan (RWP)*

| | 2020 PLANNING DECADE | | | 2070 PLANNING DECADE | | |
|--|----------------------|----------|----------------|----------------------|----------|----------------|
| | 2016 RWP | 2021 RWP | DIFFERENCE (%) | 2016 RWP | 2021 RWP | DIFFERENCE (%) |
| TOM GREEN COUNTY MUNICIPAL WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 9,910 | 12,527 | 26.4% | 9,147 | 14,112 | 54.3% |
| PROJECTED DEMAND TOTAL | 19,054 | 19,500 | 2.3% | 25,583 | 26,184 | 2.3% |
| WATER SUPPLY NEEDS TOTAL | 9,250 | 7,137 | -22.8% | 16,462 | 12,213 | -25.8% |
| UPTON COUNTY COUNTY-OTHER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 140 | 75 | -46.4% | 140 | 82 | -41.4% |
| PROJECTED DEMAND TOTAL | 92 | 75 | -18.5% | 101 | 82 | -18.8% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| UPTON COUNTY IRRIGATION WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 9,473 | 10,403 | 9.8% | 8,800 | 10,403 | 18.2% |
| PROJECTED DEMAND TOTAL | 9,473 | 10,403 | 9.8% | 8,800 | 10,403 | 18.2% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| UPTON COUNTY LIVESTOCK WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 119 | 126 | 5.9% | 119 | 126 | 5.9% |
| PROJECTED DEMAND TOTAL | 119 | 126 | 5.9% | 119 | 126 | 5.9% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| UPTON COUNTY MANUFACTURING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 0 | 184 | 100.0% | 0 | 207 | 100.0% |
| PROJECTED DEMAND TOTAL | 0 | 184 | 100.0% | 0 | 207 | 100.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| UPTON COUNTY MINING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 4,237 | 8,418 | 98.7% | 803 | 5,618 | 599.6% |
| PROJECTED DEMAND TOTAL | 4,237 | 7,200 | 69.9% | 803 | 1,600 | 99.3% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| UPTON COUNTY MUNICIPAL WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,053 | 1,103 | 4.7% | 1,231 | 1,290 | 4.8% |
| PROJECTED DEMAND TOTAL | 1,053 | 1,103 | 4.7% | 1,231 | 1,290 | 4.8% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| WARD COUNTY COUNTY-OTHER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 829 | 137 | -83.5% | 916 | 154 | -83.2% |
| PROJECTED DEMAND TOTAL | 749 | 137 | -81.7% | 840 | 154 | -81.7% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| WARD COUNTY IRRIGATION WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 5,995 | 5,620 | -6.3% | 5,995 | 5,591 | -6.7% |
| PROJECTED DEMAND TOTAL | 5,613 | 3,160 | -43.7% | 5,266 | 3,160 | -40.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| WARD COUNTY LIVESTOCK WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 109 | 83 | -23.9% | 109 | 83 | -23.9% |
| PROJECTED DEMAND TOTAL | 109 | 83 | -23.9% | 109 | 83 | -23.9% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| WARD COUNTY MANUFACTURING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 16 | 7 | -56.3% | 16 | 7 | -56.3% |
| PROJECTED DEMAND TOTAL | 16 | 7 | -56.3% | 16 | 7 | -56.3% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

*WUG supplies and projected demands are entered for each of a WUG’s region-county-basin divisions. The needs shown in the WUG Data Comparison to 2016 RWP report are calculated by first deducting the WUG split’s projected demand from its total existing water supply volume. If the WUG split has a greater existing 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 county and category level, calculated surpluses are updated to zero so that only the WUGs with needs in the decade are included with the Needs totals.

Region F Water User Group (WUG) Data Comparison to 2016 Regional Water Plan (RWP)*

| | 2020 PLANNING DECADE | | | 2070 PLANNING DECADE | | |
|--|----------------------|----------|----------------|----------------------|----------|----------------|
| | 2016 RWP | 2021 RWP | DIFFERENCE (%) | 2016 RWP | 2021 RWP | DIFFERENCE (%) |
| WARD COUNTY MINING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 797 | 1,900 | 138.4% | 329 | 600 | 82.4% |
| PROJECTED DEMAND TOTAL | 797 | 1,900 | 138.4% | 329 | 600 | 82.4% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| WARD COUNTY MUNICIPAL WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 2,518 | 3,165 | 25.7% | 2,895 | 3,625 | 25.2% |
| PROJECTED DEMAND TOTAL | 2,518 | 3,165 | 25.7% | 2,895 | 3,625 | 25.2% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| WARD COUNTY STEAM ELECTRIC POWER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 2,700 | 2,502 | -7.3% | 2,700 | 2,502 | -7.3% |
| PROJECTED DEMAND TOTAL | 3,779 | 2,502 | -33.8% | 8,269 | 2,502 | -69.7% |
| WATER SUPPLY NEEDS TOTAL | 1,079 | 0 | -100.0% | 5,569 | 0 | -100.0% |
| WINKLER COUNTY COUNTY-OTHER WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 210 | 188 | -10.5% | 210 | 609 | 190.0% |
| PROJECTED DEMAND TOTAL | 210 | 188 | -10.5% | 631 | 609 | -3.5% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 421 | 0 | -100.0% |
| WINKLER COUNTY IRRIGATION WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 4,912 | 3,507 | -28.6% | 4,912 | 3,507 | -28.6% |
| PROJECTED DEMAND TOTAL | 4,912 | 3,507 | -28.6% | 4,912 | 3,507 | -28.6% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| WINKLER COUNTY LIVESTOCK WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 389 | 101 | -74.0% | 389 | 101 | -74.0% |
| PROJECTED DEMAND TOTAL | 351 | 101 | -71.2% | 351 | 101 | -71.2% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| WINKLER COUNTY MANUFACTURING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 0 | 64 | 100.0% | 0 | 76 | 100.0% |
| PROJECTED DEMAND TOTAL | 0 | 64 | 100.0% | 0 | 76 | 100.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| WINKLER COUNTY MINING WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 787 | 787 | 0.0% | 373 | 373 | 0.0% |
| PROJECTED DEMAND TOTAL | 787 | 787 | 0.0% | 373 | 373 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| WINKLER COUNTY MUNICIPAL WUG TYPE | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 2,134 | 2,169 | 1.6% | 2,295 | 2,330 | 1.5% |
| PROJECTED DEMAND TOTAL | 2,134 | 2,169 | 1.6% | 2,295 | 2,330 | 1.5% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| REGION F | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 657,435 | 688,850 | 4.8% | 618,909 | 636,435 | 2.8% |
| PROJECTED DEMAND TOTAL | 837,974 | 765,150 | -8.7% | 853,311 | 744,366 | -12.8% |
| WATER SUPPLY NEEDS TOTAL | 182,987 | 84,066 | -54.1% | 236,937 | 125,750 | -46.9% |

*WUG supplies and projected demands are entered for each of a WUG’s region-county-basin divisions. The needs shown in the WUG Data Comparison to 2016 RWP report are calculated by first deducting the WUG split’s projected demand from its total existing water supply volume. If the WUG split has a greater existing 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 county and category level, calculated surpluses are updated to zero so that only the WUGs with needs in the decade are included with the Needs totals.

TWDB DB22 Report #10b – Source Data Comparison to 2016 RWP

Region F Source Data Comparison to 2016 Regional Water Plan (RWP)

| | 2020 PLANNING DECADE | | | 2070 PLANNING DECADE | | |
|---|----------------------|----------|----------------|----------------------|----------|----------------|
| | 2016 RWP | 2021 RWP | DIFFERENCE (%) | 2016 RWP | 2021 RWP | DIFFERENCE (%) |
| ANDREWS COUNTY | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 19,985 | 27,604 | 38.1% | 12,268 | 20,141 | 64.2% |
| REUSE AVAILABILITY TOTAL (acre-feet per year) | 560 | 560 | 0.0% | 560 | 560 | 0.0% |
| BORDEN COUNTY | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 2,430 | 9,421 | 287.7% | 2,430 | 6,711 | 176.2% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 268 | 164 | -38.8% | 268 | 164 | -38.8% |
| BROWN COUNTY | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 8,329 | 2,611 | -68.7% | 8,329 | 2,607 | -68.7% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 1,607 | 1,338 | -16.7% | 1,607 | 1,338 | -16.7% |
| COKE COUNTY | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 2,089 | 3,357 | 60.7% | 2,089 | 3,357 | 60.7% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 386 | 100 | -74.1% | 386 | 100 | -74.1% |
| COLEMAN COUNTY | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 679 | 717 | 5.6% | 679 | 717 | 5.6% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 1,108 | 794 | -28.3% | 1,108 | 794 | -28.3% |
| CONCHO COUNTY | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 7,615 | 8,343 | 9.6% | 7,615 | 8,343 | 9.6% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 160 | 467 | 191.9% | 160 | 467 | 191.9% |
| CRANE COUNTY | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 6,998 | 6,085 | -13.0% | 6,998 | 6,085 | -13.0% |
| REUSE AVAILABILITY TOTAL (acre-feet per year) | 73 | 73 | 0.0% | 73 | 73 | 0.0% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 21 | 4 | -81.0% | 21 | 4 | -81.0% |
| CROCKETT COUNTY | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 5,539 | 5,451 | -1.6% | 5,539 | 5,451 | -1.6% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 138 | 30 | -78.3% | 138 | 30 | -78.3% |
| ECTOR COUNTY | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 14,089 | 14,096 | 0.0% | 12,790 | 12,797 | 0.1% |
| REUSE AVAILABILITY TOTAL (acre-feet per year) | 6,720 | 9,530 | 41.8% | 7,000 | 9,530 | 36.1% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 11 | 25 | 127.3% | 11 | 25 | 127.3% |
| GLASSCOCK COUNTY | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 87,445 | 74,021 | -15.4% | 80,991 | 72,666 | -10.3% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 40 | 38 | -5.0% | 40 | 38 | -5.0% |
| HOWARD COUNTY | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 5,317 | 22,096 | 315.6% | 4,945 | 17,327 | 250.4% |
| REUSE AVAILABILITY TOTAL (acre-feet per year) | 1,855 | 1,855 | 0.0% | 1,855 | 1,855 | 0.0% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 62 | 39 | -37.1% | 62 | 39 | -37.1% |
| IRION COUNTY | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 3,384 | 3,452 | 2.0% | 3,384 | 3,452 | 2.0% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 288 | 278 | -3.5% | 288 | 278 | -3.5% |
| KIMBLE COUNTY | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 1,797 | 2,172 | 20.9% | 1,797 | 2,172 | 20.9% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 1,237 | 1,251 | 1.1% | 1,237 | 1,251 | 1.1% |
| LOVING COUNTY | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 5,167 | 3,635 | -29.6% | 5,167 | 3,635 | -29.6% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 10 | 1 | -90.0% | 10 | 1 | -90.0% |
| MARTIN COUNTY | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 15,570 | 63,713 | 309.2% | 14,277 | 35,675 | 149.9% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 67 | 47 | -29.9% | 67 | 47 | -29.9% |

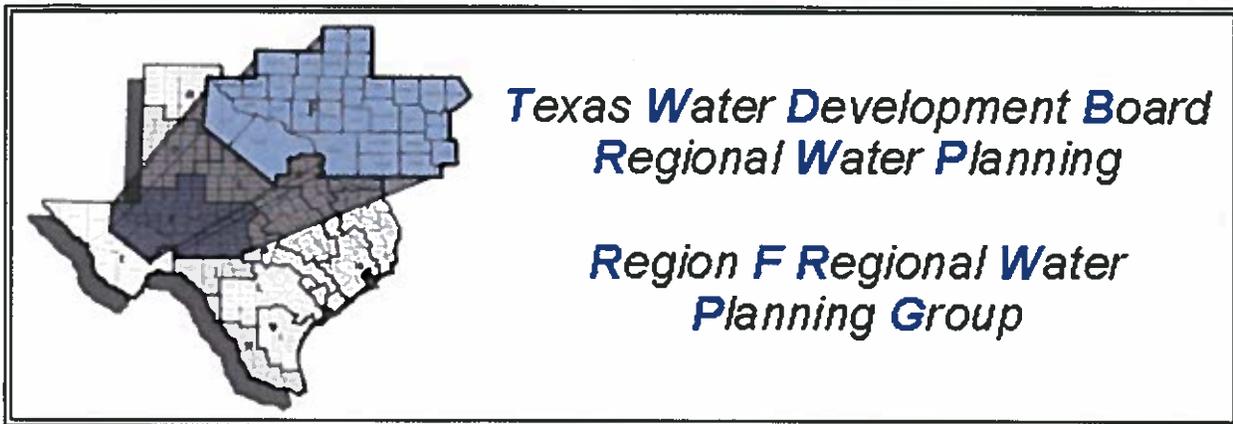
Region F Source Data Comparison to 2016 Regional Water Plan (RWP)

| | 2020 PLANNING DECADE | | | 2070 PLANNING DECADE | | |
|---|----------------------|----------|----------------|----------------------|----------|----------------|
| | 2016 RWP | 2021 RWP | DIFFERENCE (%) | 2016 RWP | 2021 RWP | DIFFERENCE (%) |
| MASON COUNTY | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 18,213 | 17,440 | -4.2% | 18,213 | 17,440 | -4.2% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 984 | 227 | -76.9% | 984 | 227 | -76.9% |
| MCCULLOCH COUNTY | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 12,823 | 29,145 | 127.3% | 12,823 | 29,145 | 127.3% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 233 | 304 | 30.5% | 233 | 304 | 30.5% |
| MENARD COUNTY | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 4,430 | 5,628 | 27.0% | 4,430 | 5,628 | 27.0% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 2,329 | 2,138 | -8.2% | 2,329 | 2,138 | -8.2% |
| MIDLAND COUNTY | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 61,639 | 62,021 | 0.6% | 54,576 | 54,958 | 0.7% |
| REUSE AVAILABILITY TOTAL (acre-feet per year) | 5,987 | 11,211 | 87.3% | 5,987 | 11,211 | 87.3% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 117 | 3 | -97.4% | 117 | 3 | -97.4% |
| MITCHELL COUNTY | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 14,020 | 14,807 | 5.6% | 14,020 | 14,807 | 5.6% |
| REUSE AVAILABILITY TOTAL (acre-feet per year) | 552 | 552 | 0.0% | 552 | 552 | 0.0% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 395 | 322 | -18.5% | 395 | 322 | -18.5% |
| PECOS COUNTY | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 275,720 | 291,663 | 5.8% | 275,720 | 291,663 | 5.8% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 4,496 | 18,709 | 316.1% | 4,496 | 18,709 | 316.1% |
| REAGAN COUNTY | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 70,342 | 68,535 | -2.6% | 70,342 | 68,535 | -2.6% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 44 | 60 | 36.4% | 44 | 60 | 36.4% |
| REEVES COUNTY | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 198,094 | 195,977 | -1.1% | 198,094 | 195,977 | -1.1% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 68 | 573 | 742.6% | 68 | 573 | 742.6% |
| RESERVOIR COUNTY | | | | | | |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 115,994 | 103,860 | -10.5% | 110,194 | 97,660 | -11.4% |
| RUNNELS COUNTY | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 2,701 | 5,046 | 86.8% | 2,701 | 5,046 | 86.8% |
| REUSE AVAILABILITY TOTAL (acre-feet per year) | 218 | 22 | -89.9% | 218 | 22 | -89.9% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 1,410 | 737 | -47.7% | 1,410 | 737 | -47.7% |
| SCHLEICHER COUNTY | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 8,050 | 8,034 | -0.2% | 8,050 | 8,034 | -0.2% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 112 | 23 | -79.5% | 112 | 23 | -79.5% |
| SCURRY COUNTY | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 1,615 | 1,608 | -0.4% | 1,615 | 1,608 | -0.4% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 534 | 440 | -17.6% | 534 | 440 | -17.6% |
| STERLING COUNTY | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 3,565 | 3,355 | -5.9% | 3,565 | 3,355 | -5.9% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 104 | 55 | -47.1% | 104 | 55 | -47.1% |
| SUTTON COUNTY | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 6,438 | 6,410 | -0.4% | 6,438 | 6,410 | -0.4% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 105 | 388 | 269.5% | 105 | 388 | 269.5% |
| TOM GREEN COUNTY | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 62,036 | 46,565 | -24.9% | 62,036 | 46,565 | -24.9% |
| REUSE AVAILABILITY TOTAL (acre-feet per year) | 8,300 | 8,300 | 0.0% | 8,300 | 8,300 | 0.0% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 3,613 | 2,286 | -36.7% | 3,613 | 2,286 | -36.7% |
| UPTON COUNTY | | | | | | |

Region F Source Data Comparison to 2016 Regional Water Plan (RWP)

| | 2020 PLANNING DECADE | | | 2070 PLANNING DECADE | | |
|---|----------------------|-----------|----------------|----------------------|-----------|----------------|
| | 2016 RWP | 2021 RWP | DIFFERENCE (%) | 2016 RWP | 2021 RWP | DIFFERENCE (%) |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 22,600 | 23,369 | 3.4% | 22,600 | 23,369 | 3.4% |
| WARD COUNTY | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 58,616 | 52,229 | -10.9% | 58,616 | 52,229 | -10.9% |
| REUSE AVAILABILITY TOTAL (acre-feet per year) | 670 | 670 | 0.0% | 670 | 670 | 0.0% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 5 | 886 | 17620.0% | 5 | 886 | 17620.0% |
| WINKLER COUNTY | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 51,045 | 56,763 | 11.2% | 51,045 | 56,763 | 11.2% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 7 | 2 | -71.4% | 7 | 2 | -71.4% |
| REGION F | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 1,058,380 | 1,135,369 | 7.3% | 1,034,182 | 1,082,668 | 4.7% |
| REUSE AVAILABILITY TOTAL (acre-feet per year) | 24,935 | 32,773 | 31.4% | 25,215 | 32,773 | 30.0% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 135,953 | 135,589 | -0.3% | 130,153 | 129,389 | -0.6% |

APPENDIX B
Hydrologic Variance Request and Approval for Surface Water



December 1, 2017

Jeff Walker
Executive Administrator
Texas Water Development Board
1700 North Congress
Austin, Texas 78711-3231

Re: Hydrologic Variance Requests for Water Availability Determination of Current Surface Water Supplies in Region F

Dear Mr. Walker:

Region F is one of the largest regions in the state, encompassing 32 counties in west Texas. Surface water supplies are obtained from the upper Colorado River Basin and Pecos River Basin, which is a tributary of the Rio Grande River Basin. A small portion of the region lies in the Brazos River Basin but there is little to no surface water supplied to Region F from this river basin.

In accordance with regional planning rules and guidelines, Region F intends to use the Full Authorization Run (Run 3) of the TCEQ-approved WAMs to determine surface water availability in the region. However, to more accurately reflect the current conditions and operations of the region, the following modifications to WAM Run 3 are requested.

Safe Yield

Region F requests the use of safe yield for the allocation and distribution of surface water supplies from all reservoirs within the region. Safe yield is the amount of water that can be used during the critical drought while leaving a minimum one-year supply in reserve. Safe yield is consistent with the current operations of surface water in the region and previous regional water planning. In accordance with the TWDB planning rules, firm yields will also be determined and reported in the plan.

Colorado WAM

Per the TCEQ website, as of November 2017, the TCEQ is still updating the WAM files for the Colorado basin and the files are unavailable. As part of the 2016 planning cycle, Region F obtained an advanced copy of the Colorado WAM with hydrology extended to 2013 from the TCEQ. This is still the most up to date and accurate version of the WAM available. There were no hydrologic variances beyond reservoir storage capacities and safe yield applied to this model. Therefore, Region F proposes to retain the surface water supplies from the 2016 Plan for the 2021 Plan. Region F does not request any hydrologic variances for the Colorado WAM besides the use of safe yield as mentioned above.

Rio Grande WAM

The Rio Grande WAM is used to evaluate surface water supplies in the Pecos sub-basin that extends into Region F. The yield for Lake Balmorhea is assumed to be the minimum annual supply from the springs that feed the reservoir. The Rio Grande WAM does not include these springs in its naturalized flows. Since there will not be any changes to the WAMs from the 2016 Region F Water Plan, currently available supplies adopted for the 2016 plan are proposed to be retained for the 2021 plan.

Brazos WAM

The Brazos basin is largely located in Region G however, some areas extend into Region F. Region F proposes to adopt the version of the Brazos WAM (including any hydrologic variances) that Region G requests and is approved to use.

Please call me if you have any questions regarding our request.

Sincerely,



John Grant
Region F Chairman

Hydrologic Variance Request for the Rio Grande WAM and Lake Balmorhea
Region F
January 19, 2018

In our review of the Rio Grande WAM for Region F, we identified two issues with the modeling of water rights associated with San Solomon Springs, Griffin Springs and Lake Balmorhea:

- *Water rights located at the springs did not have access to spring flows.* In the Rio Grande WAM, San Solomon and Griffin Springs are aggregated together, with the flows from the springs entered as “flow adjustments”. Several water rights associated with these springs are located at the control point where the spring flow is added to the naturalized flows. Because of the way these were modeled in the WAM, the flow adjustments were not being added at the control point where the spring flows entered the system – they were only being added to downstream flows. As a result, the water rights at the springs, which according to their water rights can make use of flows from these springs, never had access to these flows.
- *Calls on spring flows by water rights on the Pecos River.* Availability of spring flow was being impacted by several large diversions on the main stem of the Pecos River associated with the Red Bluff Irrigation District. In the WAM, these are modeled as run-of-the-river diversions that are backed up by releases from Red Bluff Reservoir. In actual operation, these water rights are dependent on releases from Red Bluff Reservoir and do not use or make calls on spring flow from San Solomon or Griffin Springs. Also, it is likely that a priority call on spring flow would be considered a futile call since almost all of the water would be lost before it reached the Red Bluff Irrigation District diversions.

For the 2021 Region F Water Plan, it is requested to make the following changes to the Rio Grande WAM to address the above concerns:

- Modify the option used to apply flows from the flow adjustment file so that water rights located at the springs have access to the flows. This is a correction to an error in the WAM.
- Modify the WAM to direct excess flows (flows not diverted directly from the creek) to Lake Balmorhea for storage in accordance with the Lake Balmorhea water right. The storage would then be modeled as backup for the run of river diversions.
- Model the Toyah Creek watershed to reflect actual operations and address potential futile calls.

Region F proposes to determine the firm and safe yields of Lake Balmorhea and Red Bluff Reservoir and the reliable supply for run-of-river rights using the modified Rio Grande WAM.

Mr. John Grant
February 9, 2018
Page 2

For the purpose of evaluating potentially feasible water management strategies, the TCEQ WAM Run 3 is to be used.

While the TWDB authorizes these modifications to evaluate existing water supplies for development of the 2021 Region F RWP, it is the responsibility of the RWPG to ensure that the resulting estimates of water availability are reasonable for drought planning purposes and will reflect conditions expected in the event of actual drought conditions; and in all other regards will be evaluated in accordance with the contract Exhibit C, *General Guidelines for Fifth Cycle of Regional Water Plan Development*.

If you have any questions, please do not hesitate to contact Tom Barnett, project manager for Region F, at 512-463-4209 or via email at thomas.barnett@twdb.texas.gov.

Sincerely,

A handwritten signature in blue ink that reads "Edna Pacheco for Jeff Walker". The signature is written in a cursive style.

Jeff Walker
Executive Administrator

c w/o enc: Mr. Kevin Krueger, Colorado River Municipal Water District
Ms. Simone Kiel, Freese & Nichols, Inc.
Mr. David Dunn, HDR, Inc.
Mr. Tom Barnett, Water Use, Projections, & Planning

APPENDIX C

Methodology for Non-Relevant Areas and Other Aquifer Availabilities



MEMO

TO: Simone Kiel, P.E., Freese and Nichols, and the Region F Water Planning Group

FROM: Kristie Laughlin, P.G. and James Beach, P.G., WSP USA

SUBJECT: **Region F Groundwater Availability Volumes**

DATE: **October 24, 2018**

Introduction

This memo summarizes 2021 MAG volumes, non-relevant aquifer groundwater availability volumes, and other (undifferentiated) aquifer availability volumes. The methodology used to derive the non-relevant and other aquifer volumes are noted or described either within this memo or the associated tables.

This memo was distributed to key members of the regional and joint planning groups prior to finalization of the Region F Technical Memorandum. This memo was distributed on October 11, 2018 to: 1) inform stakeholders, planners and water users of the 2021 groundwater availability volumes and methodologies used to derive these volumes for Region F, 2) solicit feedback from stakeholders, planners, and water users regarding any specific availability volumes for which they may like to contribute input and/ or local knowledge that might revise the groundwater availability volumes, and 3) incorporate any revisions to volume changes into the Technical Memorandum prior to finalization.

Subsequently, both Irion and Sterling County Other Aquifer availability volumes were removed from Table 5. Irion County has no aquifers besides the Lipan, Edwards-Trinity (Plateau), and Dockum. Sterling County Other has been assigned to the Lipan Aquifer, and now pumping for Sterling City public supply is captured under Sterling County non-relevant (Lipan Aquifer).

Region F MAGs

Region F includes portions of Groundwater Management Areas (GMAs) 2, 3, 7 and 8. The MAG estimates that were developed during the latest round of joint planning are summarized in Table 1. This table compares the total of all MAG estimates for each county in Region F for the current and previous joint planning cycles. All units are acre-feet per year (afy). The difference in volumes between joint planning cycles 1 and 2 is color-coded to indicate an increase in the MAG volume (with black numbers) or a decrease in the MAG (shown with red numbers and parentheses). For decade 2020, the previous MAGs totaled 1,003,925 acre-feet per year (afy) for entire region. The current MAGs total 984,915 afy for 2020. Overall, there has been a decrease ranging from 19,010 afy for decade 2020 to a maximum decrease of 39,626 afy for decade 2040. Some of the anticipated decreases in MAG volumes were discussed by Bill Hutchison at a previous meeting of the RWPG.



Nomenclature Changes

The three major aquifer MAGs have been lumped since the last planning cycle. The Edwards-Trinity (Plateau), Pecos Valley, and Trinity Aquifers (ETPPVT) have been combined into one MAG volume where applicable in GMA7. Also, with the introduction of regions to the North Trinity Woodbine GAM, the Trinity Aquifer formation / member nomenclature in GMA8 has expanded since the last planning cycle to include the Antlers, the Travis Peak and the Twin Mountains formations. This only affects Brown County in Region F.

MAG change to Non-MAG

The three seemingly largest MAG decreases for individual counties appear to be in Tom Green (decrease of 39,787 afy in 2020), Midland (decrease of 31,343 afy in 2020), and Mitchell (decrease of 14,018 afy in 2020) Counties. However, these are not real decreases in availability but are a result of the aquifers being declared as non-relevant. For aquifers that were designated to be non-relevant in this joint planning cycle, the previous MAG volume estimates were transferred over to the non-relevant availability volume without revision. There are comments in Table 1 indicating if the aquifer was determined to be non-relevant. These are discussed in greater detail in the Non-MAG portion of this memo.

Maps of the relevant and non-relevant portions of major and minor aquifers are included as Figures 1 through 4. Figure 5 is a map of the GCDs within Region F.

MAG Availability Volume Changes

The Ogallala is relevant only in Glasscock County, however, this is the largest real decrease in MAG volume estimates summarized in Table 1. The total MAG decrease in Glasscock County ranges from 13,424 to 8,092 afy. To help determine which aquifer this decrease can be attributed to, the current MAG volumes by aquifer are detailed in Table 2, and the 2016 MAG volumes are detailed in Table 3. A comparison of the MAGs listed for Glasscock County in Tables 2 and 3, indicates that the MAG volume for the Edwards-Trinity (Plateau) and Pecos Valley and Trinity Aquifers remains relatively unchanged at 65,186 afy (give or take). However, the previous Ogallala Aquifer MAG has decreased from 21,322 afy to 7,925 afy for the year 2020, which accounts for the largest availability decrease in any one county in Region F during this planning cycle.

The next largest decrease in total MAG volumes occurs in Ward County (6,387 afy). These decreases can be attributed to the Dockum, Capitan, and Rustler Aquifers, which have decreased available volume 4,850 afy, 948 afy, and 555 afy, respectively. The third largest decrease in available volume occurs in Reeves County, which can be attributed to the Dockum (2,431 afy), Capitan (1,007 afy), and the ETPPVT (667 afy). This is slightly offset by an increase for the Rustler Aquifer of 411 afy. All other total MAG volume decreases per county range from 1,913 afy (Crane County) to 1 afy (Coke County).



Martin, Howard, and McCulloch Counties had the largest increases in MAG volumes, which can be attributed solely to the Ogallala Aquifer for Martin and Howard Counties and primarily to the Hickory Aquifer in McCulloch County.

Partial MAGs

Note that there are two districts located within the Edwards-Trinity (Plateau) Aquifer that have declared this aquifer to be non-relevant for planning purposes, Therefore, both the Lipan-Kickapoo WCD and the Hickory UWCD1 counties may have both a partial MAG (for the portions of counties outside of the district) and a non-MAG (for portions of applicable counties located within the districts).

Region F Non-MAGs

Non-MAGs encompass both the aquifers designated as non-relevant and other aquifers. The total non-relevant availability volume for this planning cycle is 121,324 afy and the total availability from other aquifers is 29,130 afy. This totals 150,454 afy. In the previous plan, total non-relevant aquifer volume was 31,684 afy, and total other aquifer volume was 29,881 afy. Combined, these sources totaled 61,565 afy. The addition of over 87,000 afy to non-relevant and other aquifers can primarily be attributed to the Lipan, Ogallala, and Dockum Aquifers being reclassified as non-relevant in most counties within GMA7, and the addition of the San Andres Formation (10,000 afy) to Pecos County - Other Aquifer.

Non-Relevant Aquifers

Table 4 summarize the non-relevant aquifer availability volume estimates for this planning cycle and contains notes regarding the methodology or source of the availability volume estimates. Aquifers declared non-relevant for this planning cycle are as follows:

GMA2 (Gam Run 16-028 MAG):

- Pecos Valley Aquifer in Andrews County
- Edwards-Trinity (Plateau) Aquifer in Andrews, Martin and Howard Counties

GMA3 (Gam Run 16-027 MAG Final):

- Capitan Reef in Crane, Loving, and Reeves Counties
- Rustler in Crane County

GMA7 (Gam Run 16-026 MAG Version 2):

- Blaine, Igneous, Lipan, Marble Falls, and Seymour Aquifers
- Edwards-Trinity (Plateau) Aquifer in Hickory UWCD1, Lipan-Kickapoo WCD, Lone Wolf GCD, and Wes-Tex GCD
- Ellenburger-San Saba Aquifer in Llano County
- Dockum Aquifer outside of Santa Rita GCD and Middle Pecos GCD
- Ogallala Aquifer outside of Glasscock County

GMA8 (Gam Run 17-029 MAG):

- No aquifers that are within Region F



Other Aquifers

Table 5 details the Other (undifferentiated) Aquifer volume estimates. The total availability from other aquifers is 29,130 afy. The methodology for these volume estimates is derived from the maximum four-year historical annual pumping that occurred in years 2012 through 2015. Historical pumping data are based upon TWDB water use surveys. An exception to this methodology is Borden County, which kept the 2,598 acre-feet maximum historical use (year 2009) that was used in the previous planning cycle. Another exception is the Pecos County volume of 10,000 afy for water from the San Andres Formation.

The Cross Timbers Aquifer was designated as a minor aquifer in 2017. This aquifer encompasses all of Coleman County and portions of Brown, Concho, McCulloch and Runnels Counties in Region F. The aquifer is comprised of Paleozoic-age formations in the Wichita Group (Permian System) and the Cisco, Canyon and Strawn Groups (Pennsylvanian System). The Cross Timbers Aquifer was designated as a minor aquifer in 2017. This aquifer encompasses all of Coleman County and portions of Brown, Concho, McCulloch and Runnels Counties in Region F.

San Andres Formation Estimated Groundwater Availability

In 1957, there were at least 27 groundwater wells completed in the San Andres Formation in northern Pecos County near Imperial, Texas. The wells were flowing at the surface when they were drilled but due to continuous discharge and decreasing formation pressure, only about eight of these wells currently flow. In 1957, the withdrawals were estimated to have been 10,000 acre-feet. An additional quantity of over 3,000 acre-feet was estimated to be available from this source. Uses included irrigation, secondary recovery via waterflooding, and livestock. Water quality was characterized by total dissolved solid concentrations that exceed 5,000 milligrams per liter, hydrogen sulfide gas presence in the groundwater, and sulphur that precipitates out upon oxidation at the surface (Armstrong and McMillion, 1961).

The Capitan Reef Complex is located about four miles to the west of the flowing San Andres Formation wells. The underlying San Andres Formation is structurally high in the area west of Imperial, functions as the base of the backreef sequence, and has good hydrogeological communication with the Capitan Reef Complex (Standen and others, 2009). However, the source of water to the flowing wells is the San Andres Formation (Standen, 2018).

Measurement of discharge from two flowing wells (C-83 and C-88) using weirs was performed in 2015.

- Measured flow from C-83 was 215 gallons per minute (gpm) in November, 2015. Historically, measured flow from this well varied from 1,330 to 900 gpm between April and August, 1957.
- Measured flow from C-88 was 900 to 1,200 gpm in 2015. In 1957 the flow from this well was measured at 900 gpm.

In 2015, total flow from the two wells was over 2 million gallons per day (mgd), which is equivalent to 2,280 acre-feet per year (afy) (LBG-Guyton, 2015). If this average is applied to the eight flowing wells, it



gives an estimate of nearly 9,000 afy. The Middle Pecos district recently indicated that several of the eight flowing wells produce between one to 2.5 mgd. Assuming this applies to four wells, this indicates groundwater availability estimates ranging between 4,480 afy and 11,200 afy for the more productive wells.

For the purposes of regional water planning, WSP believes that an availability estimate of 10,000 afy is reasonable for this planning cycle. This estimate only includes discharge from flowing wells and does not consider impacts from groundwater pumping, subsidence, or water quality. The various environmental issues associated with San Andres Formation water will be discussed in further detail in the regional water plan.

REFERENCES

Armstrong, C.A., and McMillion, L.G., 1961. Geology and Groundwater Resources of Pecos County, Texas, Bulletin 6106 prepared by the U.S. Geological Survey and the Texas Board of Water Engineers in cooperation with Pecos County, 2 volumes.

LBG-Guyton Associates, 2015. Preliminary Compilation of Hydrogeologic Information Collected on the MRK Wells, Pecos County, Texas, 38 p.

Standen, 2018. Personal communication.

Standen and others, 2009. Capitan Reef Complex Structure and Stratigraphy, prepared for Texas Water Development Board Contract No. 0804830794, 63 p.

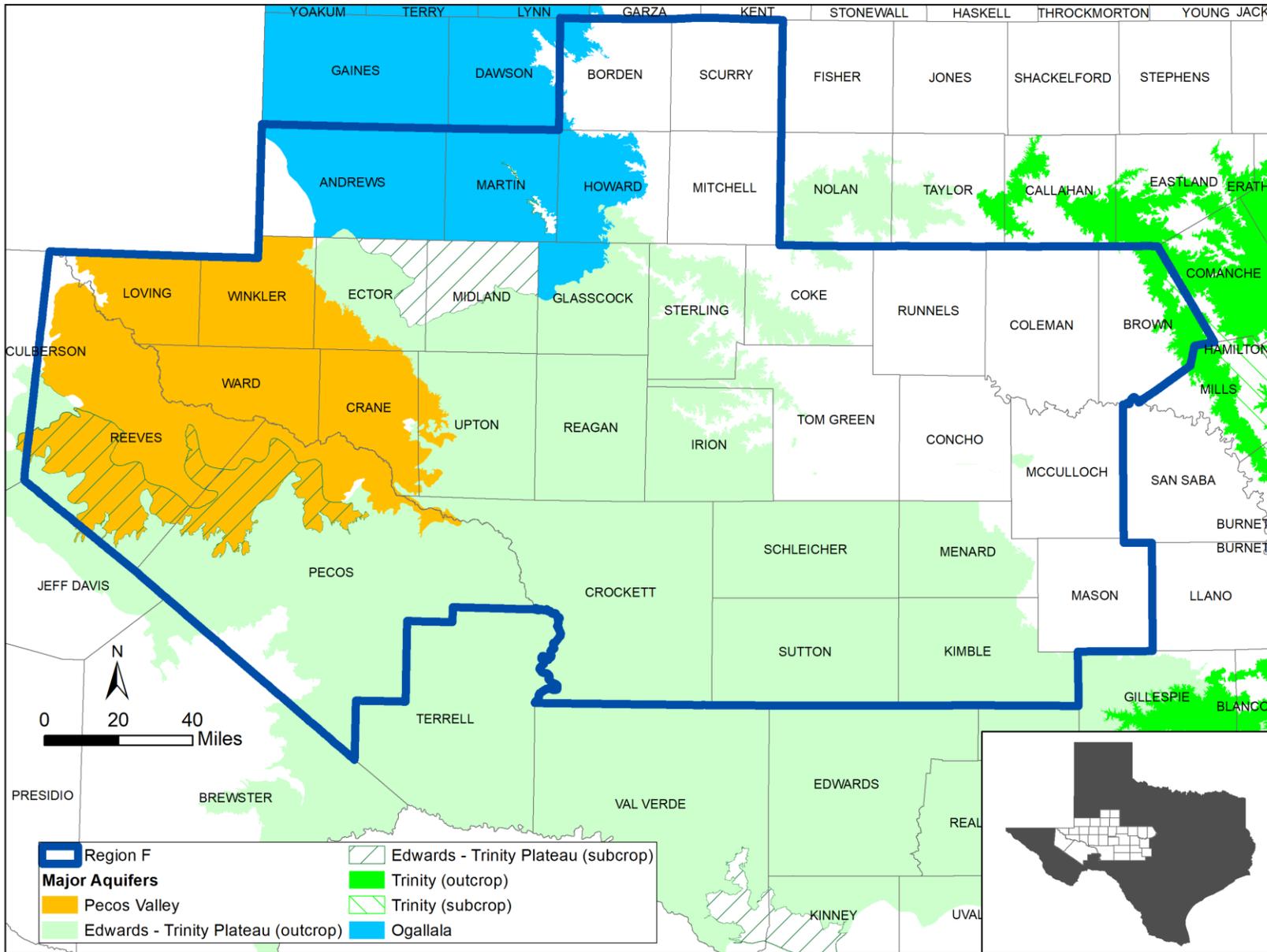


Figure 1. Relevant Major Aquifers

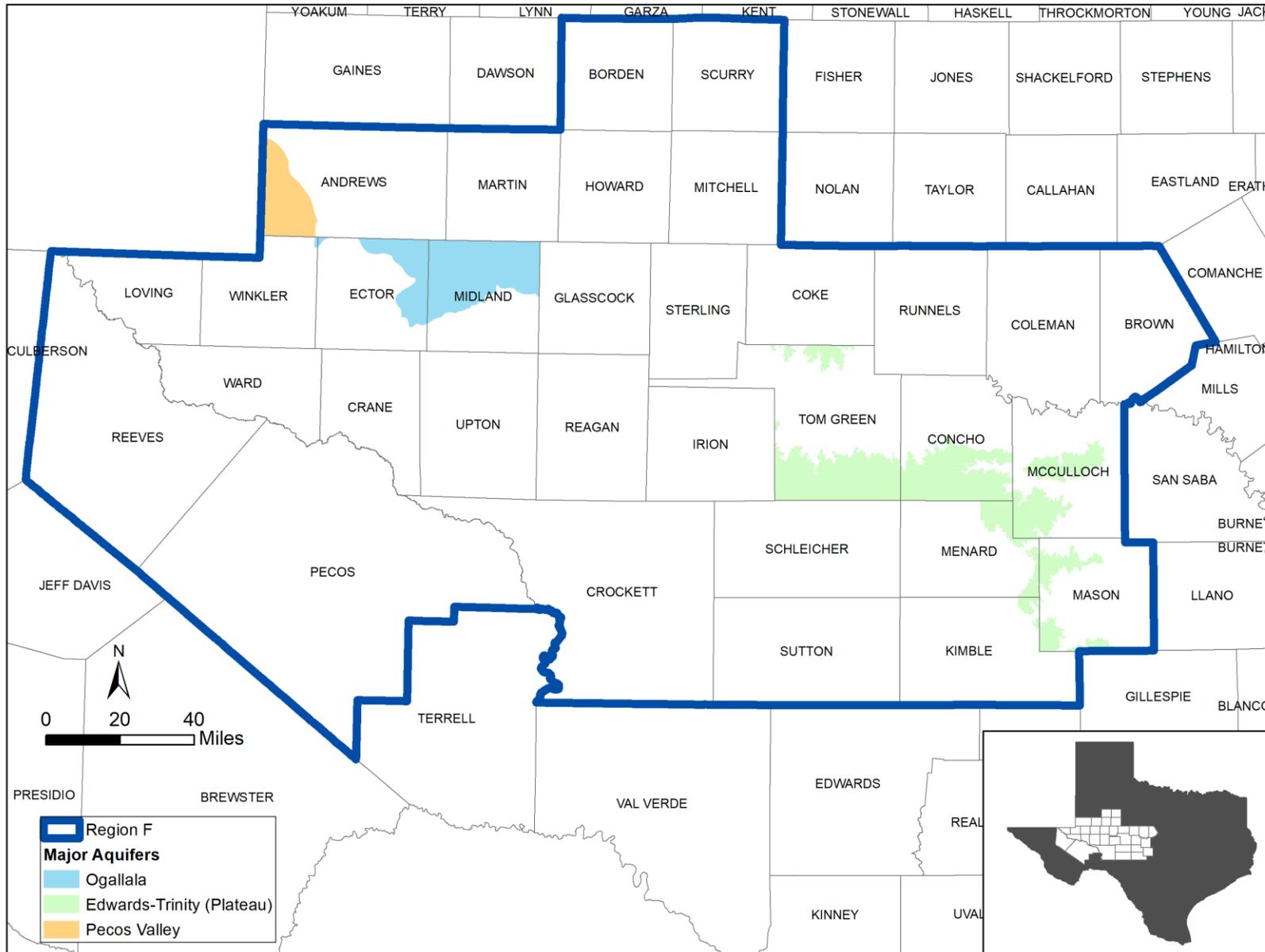


Figure 2. Non-relevant Major Aquifers

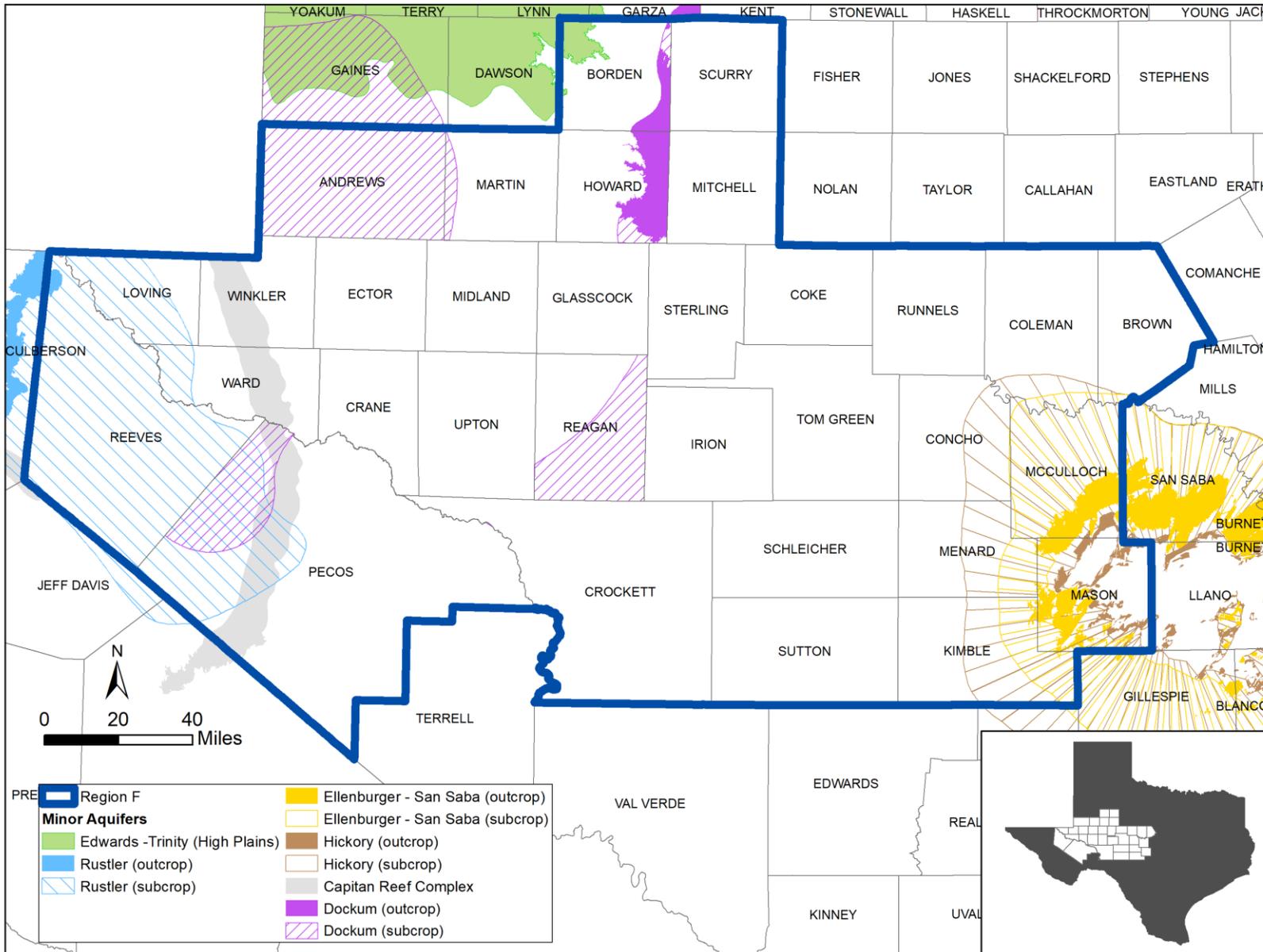


Figure 3. Relevant Minor Aquifers

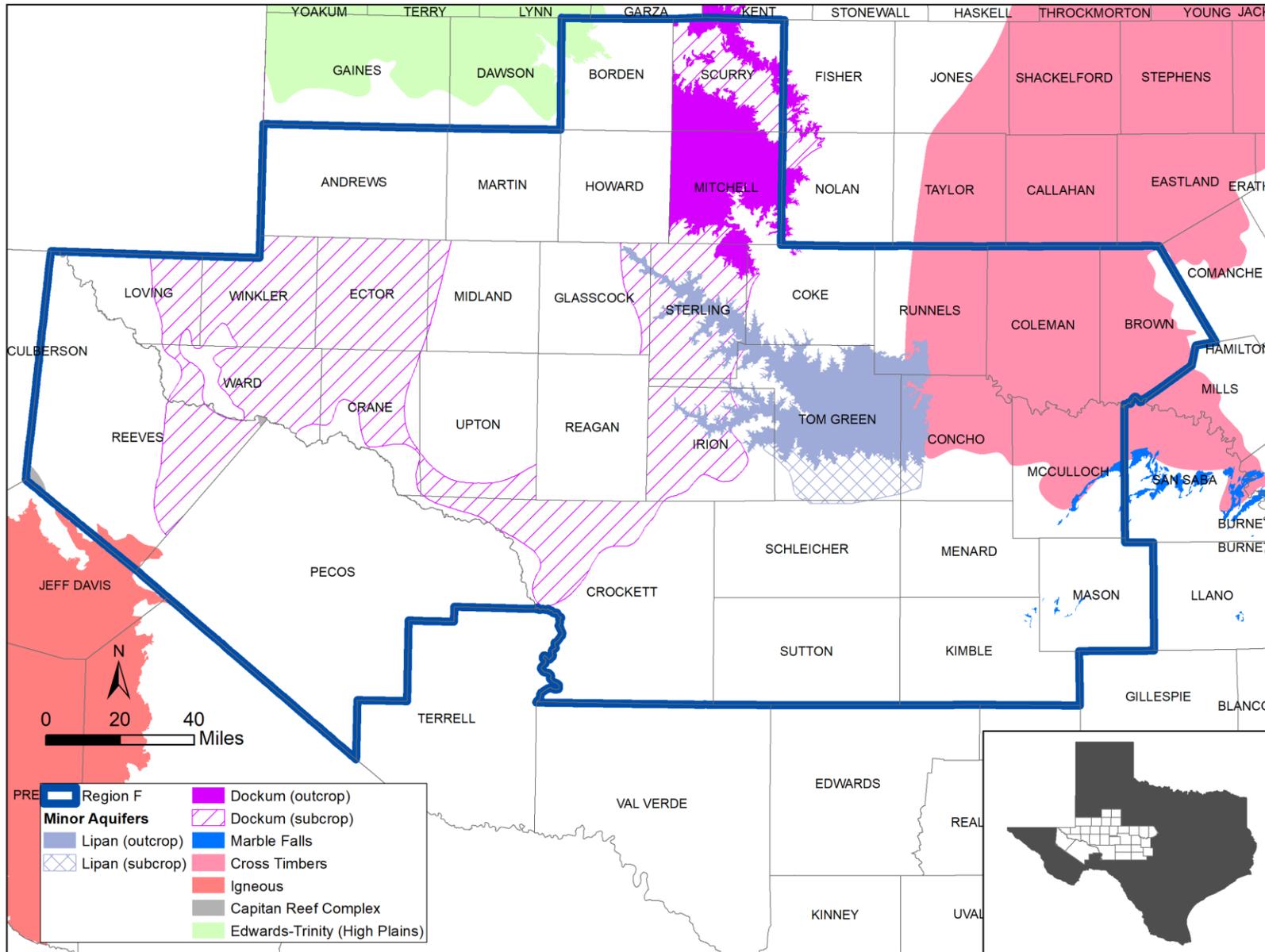


Figure 4. Non-relevant Minor and Other Aquifers

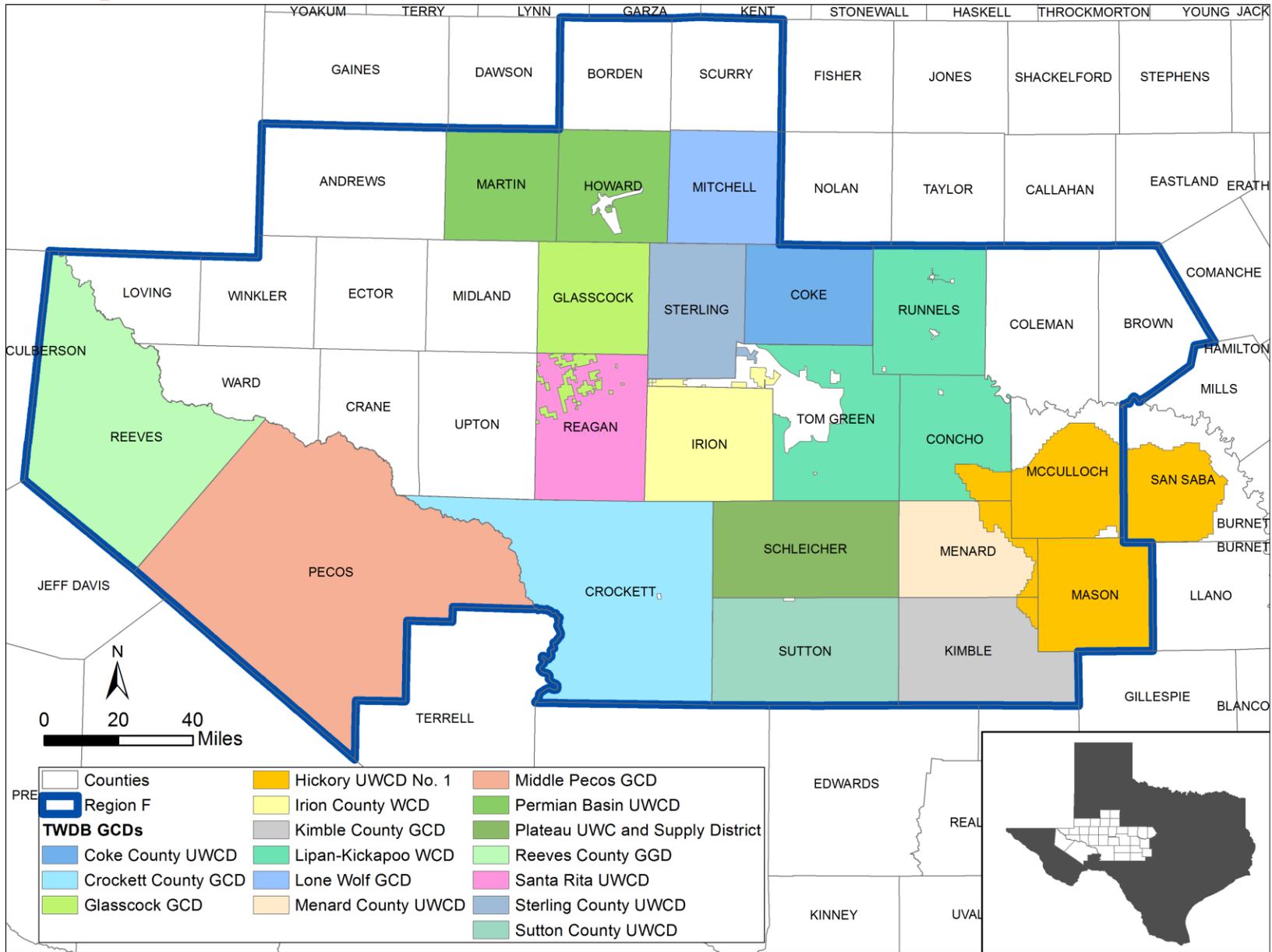


Figure 5. GCDs within Region F

Table 1
Region F Comparison of MAG Volumes
Previous and Current Joint Planning Cycles
(all values are in acre-feet per year)

| County | JP1 | | | | | GMA | JP2 | | | | | Difference | | | | | Comments | |
|------------|------------------|----------------|----------------|----------------|----------------|-----|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---|
| | 2020 | 2030 | 2040 | 2050 | 2060 | | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 | 2020 | 2030 | 2040 | 2050 | | 2060 |
| ANDREWS | 15,985 | 14,569 | 12,905 | 10,907 | 8,268 | 2 | 26,256 | 22,694 | 21,114 | 20,093 | 19,359 | 18,793 | 10,271 | 8,125 | 8,209 | 9,186 | 11,091 | |
| BORDEN | 1,020 | 1,020 | 1,020 | 1,020 | 1,020 | 2 | 6,823 | 5,540 | 4,970 | 4,638 | 4,322 | 4,113 | 5,803 | 4,520 | 3,950 | 3,618 | 3,302 | |
| BROWN | 2,188 | 2,188 | 2,188 | 2,188 | 2,188 | 8 | 1,618 | 1,614 | 1,618 | 1,614 | 1,618 | 1,614 | (570) | (574) | (570) | (574) | (570) | Trinity |
| COKE | 998 | 998 | 998 | 998 | 998 | 7 | 997 | 997 | 997 | 997 | 997 | 997 | (1) | (1) | (1) | (1) | (1) | |
| COLEMAN | 500 | 500 | 500 | 500 | 500 | 7 | - | - | - | - | - | - | (500) | (500) | (500) | (500) | (500) | Hickory |
| CONCHO | 1,835 | 1,835 | 1,835 | 1,835 | 1,835 | 7 | 27 | 27 | 27 | 27 | 27 | 27 | (1,808) | (1,808) | (1,808) | (1,808) | (1,808) | Lipan Non-relevant |
| CRANE | 6,998 | 6,998 | 6,998 | 6,998 | 6,998 | 3 | 5,085 | 5,085 | 5,085 | 5,085 | 5,085 | 5,085 | (1,913) | (1,913) | (1,913) | (1,913) | (1,913) | Dockum |
| CROCKETT | 5,457 | 5,457 | 5,457 | 5,457 | 5,457 | 7 | 5,447 | 5,447 | 5,447 | 5,447 | 5,447 | 5,447 | (10) | (10) | (10) | (10) | (10) | |
| ECTOR | 14,089 | 13,793 | 13,234 | 13,198 | 12,790 | 7 | 5,542 | 5,542 | 5,542 | 5,542 | 5,542 | 5,542 | (8,547) | (8,251) | (7,692) | (7,656) | (7,248) | Ogallala Non-relevant |
| GLASSCOCK | 86,535 | 86,088 | 84,904 | 82,502 | 80,081 | 7 | 73,111 | 72,859 | 72,558 | 72,244 | 71,989 | 71,756 | (13,424) | (13,229) | (12,346) | (10,258) | (8,092) | Ogallala relevant but much smaller MAG |
| HOWARD | 3,075 | 2,731 | 2,731 | 2,731 | 2,703 | 2 | 21,424 | 18,980 | 17,853 | 17,227 | 16,870 | 16,655 | 18,349 | 16,249 | 15,122 | 14,496 | 14,167 | |
| IRION | 2,293 | 2,293 | 2,293 | 2,293 | 2,293 | 7 | 3,289 | 3,289 | 3,289 | 3,289 | 3,289 | 3,289 | 996 | 996 | 996 | 996 | 996 | |
| KIMBLE | 1,593 | 1,593 | 1,593 | 1,593 | 1,593 | 7 | 1,968 | 1,968 | 1,968 | 1,968 | 1,968 | 1,968 | 375 | 375 | 375 | 375 | 375 | |
| LOVING | 5,167 | 5,167 | 5,167 | 5,167 | 5,167 | 3 | 3,635 | 3,635 | 3,635 | 3,635 | 3,635 | 3,635 | (1,532) | (1,532) | (1,532) | (1,532) | (1,532) | Rustler, Dockum |
| MCCULLOCH | 12,525 | 12,525 | 12,525 | 12,525 | 12,525 | 7 | 28,741 | 28,741 | 28,741 | 28,741 | 28,741 | 28,741 | 16,216 | 16,216 | 16,216 | 16,216 | 16,216 | |
| MARTIN | 13,570 | 13,570 | 13,140 | 12,299 | 12,277 | 2 | 63,471 | 51,134 | 43,869 | 39,801 | 37,218 | 35,433 | 49,901 | 37,564 | 30,729 | 27,502 | 24,941 | Ellenburger-San Saba |
| MASON | 18,095 | 18,095 | 18,095 | 18,095 | 18,095 | 7 | 16,449 | 16,449 | 16,449 | 16,449 | 16,449 | 16,449 | (1,646) | (1,646) | (1,646) | (1,646) | (1,646) | smaller MAG |
| MENARD | 4,001 | 4,001 | 4,001 | 4,001 | 4,001 | 7 | 5,251 | 5,251 | 5,251 | 5,251 | 5,251 | 5,251 | 1,250 | 1,250 | 1,250 | 1,250 | 1,250 | |
| MIDLAND | 61,639 | 60,075 | 57,874 | 55,944 | 54,576 | 7 | 23,233 | 23,233 | 23,233 | 23,233 | 23,233 | 23,233 | (38,406) | (36,842) | (34,641) | (32,711) | (31,343) | Ogallala Non-relevant |
| MITCHELL | 14,018 | 14,018 | 14,018 | 14,018 | 14,018 | 7 | - | - | - | - | - | - | (14,018) | (14,018) | (14,018) | (14,018) | (14,018) | Dockum Non-relevant |
| PECOS | 275,715 | 275,715 | 275,715 | 275,715 | 275,715 | 3&7 | 281,583 | 281,583 | 281,583 | 281,583 | 281,583 | 281,583 | 5,868 | 5,868 | 5,868 | 5,868 | 5,868 | |
| REAGAN | 68,278 | 68,278 | 68,278 | 68,278 | 68,278 | 7 | 68,535 | 68,535 | 68,535 | 68,535 | 68,535 | 68,233 | 257 | 257 | 257 | 257 | 257 | |
| REEVES | 198,094 | 198,094 | 198,094 | 198,094 | 198,094 | 3 | 194,670 | 194,670 | 194,670 | 194,670 | 194,670 | 194,670 | (3,424) | (3,424) | (3,424) | (3,424) | (3,424) | Dockum, Capitan |
| RUNNELS | 15 | 15 | 15 | 15 | 15 | 7 | - | - | - | - | - | - | (15) | (15) | (15) | (15) | (15) | Lipan Non-relevant |
| SCHLEICHER | 8,050 | 8,050 | 8,050 | 8,050 | 8,050 | 7 | 8,034 | 8,034 | 8,034 | 8,034 | 8,034 | 8,034 | (16) | (16) | (16) | (16) | (16) | |
| SCURRY | 1,209 | 1,209 | 1,209 | 1,209 | 1,209 | 7 | - | - | - | - | - | - | (1,209) | (1,209) | (1,209) | (1,209) | (1,209) | Dockum Non-relevant |
| STERLING | 2,497 | 2,497 | 2,497 | 2,497 | 2,497 | 7 | 2,495 | 2,495 | 2,495 | 2,495 | 2,495 | 2,495 | (2) | (2) | (2) | (2) | (2) | |
| SUTTON | 6,438 | 6,438 | 6,438 | 6,438 | 6,438 | 7 | 6,410 | 6,410 | 6,410 | 6,410 | 6,410 | 6,410 | (28) | (28) | (28) | (28) | (28) | |
| TOM GREEN | 39,787 | 39,787 | 39,787 | 39,787 | 39,787 | 7 | - | - | - | - | - | - | (39,787) | (39,787) | (39,787) | (39,787) | (39,787) | Lipan Non-relevant |
| UPTON | 22,600 | 22,600 | 22,600 | 22,600 | 22,600 | 7 | 22,369 | 22,369 | 22,369 | 22,369 | 22,369 | 22,369 | (231) | (231) | (231) | (231) | (231) | Dockum Non-relevant |
| WARD | 58,616 | 58,616 | 58,616 | 58,616 | 58,616 | 3 | 52,229 | 52,229 | 52,229 | 52,229 | 52,229 | 52,229 | (6,387) | (6,387) | (6,387) | (6,387) | (6,387) | Dockum, Capitan, Rustler |
| WINKLER | 51,045 | 51,045 | 51,045 | 51,045 | 51,045 | 3 | 56,223 | 56,223 | 56,223 | 56,223 | 56,223 | 56,223 | 5,178 | 5,178 | 5,178 | 5,178 | 5,178 | |
| | 1,003,925 | 999,858 | 993,820 | 986,613 | 979,727 | | 984,915 | 965,033 | 954,194 | 947,829 | 943,588 | 940,274 | (19,010) | (34,825) | (39,626) | (38,784) | (36,139) | |

**2021 Plan - Table 2. Modeled Available Groundwater in Region F
(Values in Acre-Feet per Year)**

Largest amount of water that can be withdrawn from a given source without violating the most restrictive physical, regulatory, or policy conditions limiting withdrawals, under drought-of-record conditions.

| County | Aquifer | Basin | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
|-----------|--|------------|--------|--------|--------|--------|--------|--------|
| Andrews | Dockum | Colorado | 1,319 | 1,319 | 1,319 | 1,319 | 1,319 | 1,319 |
| | | Rio Grande | 0 | 0 | 0 | 0 | 0 | 0 |
| | Ogallala and Edwards-Trinity (High Plains) | Colorado | 24,937 | 21,375 | 19,795 | 18,774 | 18,040 | 17,474 |
| | | Rio Grande | 0 | 0 | 0 | 0 | 0 | 0 |
| Borden | Dockum | Brazos | 284 | 284 | 284 | 284 | 284 | 284 |
| | | Colorado | 617 | 617 | 617 | 617 | 617 | 617 |
| | Ogallala and Edwards-Trinity (High Plains) | Brazos | 842 | 699 | 635 | 597 | 572 | 555 |
| | | Colorado | 5,080 | 3,940 | 3,433 | 3,140 | 2,849 | 2,657 |
| Brown | Ellenburger-San Saba | Colorado | 131 | 131 | 131 | 131 | 131 | 131 |
| | Hickory | Colorado | 12 | 12 | 12 | 12 | 12 | 12 |
| | Marble Falls | Colorado | 25 | 25 | 25 | 25 | 25 | 25 |
| | Trinity | Brazos | 51 | 51 | 51 | 51 | 51 | 51 |
| | | Colorado | 1,399 | 1,399 | 1,399 | 1,399 | 1,399 | 1,399 |
| Coke | Edwards-Trinity (Plateau) | Colorado | 997 | 997 | 997 | 997 | 997 | 997 |
| Coleman | --- | Colorado | --- | --- | --- | --- | --- | --- |
| Concho | Hickory | Colorado | 27 | 27 | 27 | 27 | 27 | 27 |
| Crane | Dockum | Rio Grande | 94 | 94 | 94 | 94 | 94 | 94 |
| | Edwards-Trinity (Plateau) and Pecos Valley and Trinity | Rio Grande | 4,991 | 4,991 | 4,991 | 4,991 | 4,991 | 4,991 |
| Crockett | Edwards-Trinity (Plateau) and Pecos Valley and Trinity | Colorado | 20 | 20 | 20 | 20 | 20 | 20 |
| | | Rio Grande | 5,427 | 5,427 | 5,427 | 5,427 | 5,427 | 5,427 |
| Ector | Edwards-Trinity (Plateau) and Pecos Valley and Trinity | Colorado | 4,925 | 4,925 | 4,925 | 4,925 | 4,925 | 4,925 |
| | | Rio Grande | 617 | 617 | 617 | 617 | 617 | 617 |
| Glasscock | Edwards-Trinity (Plateau) and Pecos Valley and Trinity | Colorado | 65,186 | 65,186 | 65,186 | 65,186 | 65,186 | 65,186 |
| | Ogallala | Colorado | 7,925 | 7,673 | 7,372 | 7,058 | 6,803 | 6,570 |
| Howard | Ogallala and Edwards-Trinity (High Plains) | Colorado | 19,835 | 17,391 | 16,264 | 15,638 | 15,281 | 15,066 |
| | Dockum | Colorado | 1,589 | 1,589 | 1,589 | 1,589 | 1,589 | 1,589 |
| Irion | Edwards-Trinity (Plateau) and Pecos Valley and Trinity | Colorado | 3,289 | 3,289 | 3,289 | 3,289 | 3,289 | 3,289 |
| Kimble | Edwards-Trinity (Plateau) and Pecos Valley and Trinity | Colorado | 1,282 | 1,282 | 1,282 | 1,282 | 1,282 | 1,282 |
| | Ellenburger-San Saba | Colorado | 521 | 521 | 521 | 521 | 521 | 521 |
| | Hickory | Colorado | 165 | 165 | 165 | 165 | 165 | 165 |

**2021 Plan - Table 2. Modeled Available Groundwater in Region F
(Values in Acre-Feet per Year)**

Largest amount of water that can be withdrawn from a given source without violating the most restrictive physical, regulatory, or policy conditions limiting withdrawals, under drought-of-record conditions.

| County | Aquifer | Basin | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
|------------|--|------------|---------|---------|---------|---------|---------|---------|
| Loving | Dockum | Rio Grande | 453 | 453 | 453 | 453 | 453 | 453 |
| | Edwards-Trinity (Plateau) and Pecos Valley and Trinity | Rio Grande | 2,982 | 2,982 | 2,982 | 2,982 | 2,982 | 2,982 |
| | Rustler | Rio Grande | 200 | 200 | 200 | 200 | 200 | 200 |
| McCulloch | Ellenburger-San Saba | Colorado | 4,364 | 4,364 | 4,364 | 4,364 | 4,364 | 4,364 |
| | Hickory | Colorado | 24,377 | 24,377 | 24,377 | 24,377 | 24,377 | 24,377 |
| Martin | Ogallala | Colorado | 63,463 | 51,126 | 43,861 | 39,793 | 37,210 | 35,425 |
| | Dockum | Colorado | 8 | 8 | 8 | 8 | 8 | 8 |
| Mason | Ellenburger-San Saba | Colorado | 3,237 | 3,237 | 3,237 | 3,237 | 3,237 | 3,237 |
| | Hickory | Colorado | 13,212 | 13,212 | 13,212 | 13,212 | 13,212 | 13,212 |
| Menard | Edwards-Trinity (Plateau) and Pecos Valley and Trinity | Colorado | 2,217 | 2,217 | 2,217 | 2,217 | 2,217 | 2,217 |
| | Ellenburger-San Saba | Colorado | 309 | 309 | 309 | 309 | 309 | 309 |
| | Hickory | Colorado | 2,725 | 2,725 | 2,725 | 2,725 | 2,725 | 2,725 |
| Midland | Edwards-Trinity (Plateau) and Pecos Valley and Trinity | Colorado | 23,233 | 23,233 | 23,233 | 23,233 | 23,233 | 23,233 |
| Pecos | Capitan Reef | Rio Grande | 26,168 | 26,168 | 26,168 | 26,168 | 26,168 | 26,168 |
| | Dockum | Rio Grande | 8,164 | 8,164 | 8,164 | 8,164 | 8,164 | 8,164 |
| | Edwards-Trinity (Plateau) and Pecos Valley and Trinity | Rio Grande | 240,208 | 240,208 | 240,208 | 240,208 | 240,208 | 240,208 |
| | Rustler | Rio Grande | 7,043 | 7,043 | 7,043 | 7,043 | 7,043 | 7,043 |
| Reagan | Dockum | Colorado | 302 | 302 | 302 | 302 | 302 | 302 |
| | Edwards-Trinity (Plateau) and Pecos Valley and Trinity | Colorado | 68,205 | 68,205 | 68,205 | 68,205 | 68,205 | 68,205 |
| | | Rio Grande | 28 | 28 | 28 | 28 | 28 | 28 |
| Reeves | Dockum | Rio Grande | 2,539 | 2,539 | 2,539 | 2,539 | 2,539 | 2,539 |
| | Edwards-Trinity (Plateau) and Pecos Valley and Trinity | Rio Grande | 189,744 | 189,744 | 189,744 | 189,744 | 189,744 | 189,744 |
| | Rustler | Rio Grande | 2,387 | 2,387 | 2,387 | 2,387 | 2,387 | 2,387 |
| Schleicher | Edwards-Trinity (Plateau) and Pecos Valley and Trinity | Colorado | 6,403 | 6,403 | 6,403 | 6,403 | 6,403 | 6,403 |
| | | Rio Grande | 1,631 | 1,631 | 1,631 | 1,631 | 1,631 | 1,631 |
| Sterling | Edwards-Trinity (Plateau) and Pecos Valley and Trinity | Colorado | 2,495 | 2,495 | 2,495 | 2,495 | 2,495 | 2,495 |
| Sutton | Edwards-Trinity (Plateau) and Pecos Valley and Trinity | Colorado | 388 | 388 | 388 | 388 | 388 | 388 |
| | | Rio Grande | 6,022 | 6,022 | 6,022 | 6,022 | 6,022 | 6,022 |

**2021 Plan - Table 2. Modeled Available Groundwater in Region F
(Values in Acre-Feet per Year)**

Largest amount of water that can be withdrawn from a given source without violating the most restrictive physical, regulatory, or policy conditions limiting withdrawals, under drought-of-record conditions.

| County | Aquifer | Basin | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
|---------|--|------------|--------|--------|--------|--------|--------|--------|
| Upton | Edwards-Trinity (Plateau) and Pecos Valley and Trinity | Colorado | 21,243 | 21,243 | 21,243 | 21,243 | 21,243 | 21,243 |
| | | Rio Grande | 1,126 | 1,126 | 1,126 | 1,126 | 1,126 | 1,126 |
| Ward | Capitan Reef | Rio Grande | 103 | 103 | 103 | 103 | 103 | 103 |
| | Dockum | Rio Grande | 2,150 | 2,150 | 2,150 | 2,150 | 2,150 | 2,150 |
| | Edwards-Trinity (Plateau) and Pecos Valley and Trinity | Rio Grande | 49,976 | 49,976 | 49,976 | 49,976 | 49,976 | 49,976 |
| | Rustler | Rio Grande | 0 | 0 | 0 | 0 | 0 | 0 |
| Winkler | Capitan Reef | Rio Grande | 274 | 274 | 274 | 274 | 274 | 274 |
| | Dockum | Colorado | 13 | 13 | 13 | 13 | 13 | 13 |
| | | Rio Grande | 5,987 | 5,987 | 5,987 | 5,987 | 5,987 | 5,987 |
| | Edwards-Trinity (Plateau) and Pecos Valley and Trinity | Rio Grande | 49,949 | 49,949 | 49,949 | 49,949 | 49,949 | 49,949 |

**Table 3. 2016 Modeled Available Groundwater in Region F
(Values in Acre-Feet per Year)**

| County | Aquifer | Basin | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
|-----------|----------------------------------|------------|--------|--------|--------|--------|--------|--------|
| Andrews | Dockum | Colorado | 715 | 715 | 715 | 715 | 715 | 715 |
| | | Rio Grande | 135 | 135 | 135 | 135 | 135 | 135 |
| | Ogallala | Colorado | 15,085 | 13,678 | 12,014 | 10,016 | 7,377 | 7,377 |
| | | Rio Grande | 50 | 41 | 41 | 41 | 41 | 41 |
| Borden | Dockum | Brazos | 33 | 33 | 33 | 33 | 33 | 33 |
| | | Colorado | 482 | 482 | 482 | 482 | 482 | 482 |
| | Edwards-Trinity (High Plains) | Brazos | 65 | 65 | 65 | 65 | 65 | 65 |
| | | Colorado | 41 | 41 | 41 | 41 | 41 | 41 |
| | Ogallala | Brazos | 292 | 292 | 292 | 292 | 292 | 292 |
| | | Colorado | 107 | 107 | 107 | 107 | 107 | 107 |
| Brown | Ellenburger-San Saba | Colorado | 131 | 131 | 131 | 131 | 131 | 131 |
| | Hickory | Colorado | 12 | 12 | 12 | 12 | 12 | 12 |
| | Trinity | Brazos | 28 | 28 | 28 | 28 | 28 | 28 |
| | | Colorado | 2,017 | 2,017 | 2,017 | 2,017 | 2,017 | 2,017 |
| Coke | Edwards-Trinity (Plateau) | Colorado | 998 | 998 | 998 | 998 | 998 | 998 |
| Coleman | Hickory | Colorado | 500 | 500 | 500 | 500 | 500 | 500 |
| Concho | Hickory | Colorado | 1 | 1 | 1 | 1 | 1 | 1 |
| | Lipan | Colorado | 1,834 | 1,834 | 1,834 | 1,834 | 1,834 | 1,834 |
| Crane | Dockum | Rio Grande | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 |
| | Edwards-Trinity (Plateau) | Rio Grande | 26 | 26 | 26 | 26 | 26 | 26 |
| | Pecos Valley | Rio Grande | 4,972 | 4,972 | 4,972 | 4,972 | 4,972 | 4,972 |
| Crockett | Edwards-Trinity (Plateau) | Colorado | 19 | 19 | 19 | 19 | 19 | 19 |
| | | Rio Grande | 5407 | 5407 | 5407 | 5407 | 5407 | 5407 |
| | Pecos Valley | Rio Grande | 31 | 31 | 31 | 31 | 31 | 31 |
| Ector | Dockum | Colorado | 13 | 13 | 13 | 13 | 13 | 13 |
| | | Rio Grande | 515 | 515 | 515 | 515 | 515 | 515 |
| | Edwards-Trinity (Plateau) | Colorado | 4,918 | 4,918 | 4,918 | 4,918 | 4,918 | 4,918 |
| | | Rio Grande | 504 | 504 | 504 | 504 | 504 | 504 |
| | Pecos Valley | Rio Grande | 113 | 113 | 113 | 113 | 113 | 113 |
| Ogallala | Colorado | 8,026 | 7,730 | 7,171 | 7,135 | 6,727 | 6,727 | |
| Glasscock | Edwards-Trinity (Plateau) | Colorado | 65,213 | 65,213 | 65,213 | 65,213 | 65,213 | 65,213 |
| | Ogallala | Colorado | 21,322 | 20,875 | 19,691 | 17,289 | 14,868 | 14,868 |
| Howard | Ogallala | Colorado | 3,075 | 2,731 | 2,731 | 2,731 | 2,703 | 2,703 |
| Irion | Edwards-Trinity (Plateau) | Colorado | 2,293 | 2,293 | 2,293 | 2,293 | 2,293 | 2,293 |
| Kimble | Edwards-Trinity (Plateau) | Colorado | 1,283 | 1,283 | 1,283 | 1,283 | 1,283 | 1,283 |
| | Ellenburger-San Saba | Colorado | 304 | 304 | 304 | 304 | 304 | 304 |
| | Hickory | Colorado | 6 | 6 | 6 | 6 | 6 | 6 |
| Loving | Dockum | Rio Grande | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 |
| | Edwards-Trinity (Plateau) | Rio Grande | 0 | 0 | 0 | 0 | 0 | 0 |
| | Pecos Valley | Rio Grande | 2,984 | 2,984 | 2,984 | 2,984 | 2,984 | 2,984 |
| | Rustler | Rio Grande | 1,183 | 1,183 | 1,183 | 1,183 | 1,183 | 1,183 |
| Martin | Ogallala | Colorado | 13,570 | 13,570 | 13,140 | 12,299 | 12,277 | 12,277 |
| Mason | Ellenburger-San Saba | Colorado | 5,801 | 5,801 | 5,801 | 5,801 | 5,801 | 5,801 |
| | Hickory | Colorado | 12,294 | 12,294 | 12,294 | 12,294 | 12,294 | 12,294 |
| McCulloch | Edwards-Trinity (Plateau) | Colorado | 4 | 4 | 4 | 4 | 4 | 4 |
| | Ellenburger-San Saba | Colorado | 5,369 | 5,369 | 5,369 | 5,369 | 5,369 | 5,369 |
| | Hickory | Colorado | 7,152 | 7,152 | 7,152 | 7,152 | 7,152 | 7,152 |

**Table 3. 2016 Modeled Available Groundwater in Region F
(Values in Acre-Feet per Year)**

| County | Aquifer | Basin | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
|------------|---------------------------|------------|---------|---------|---------|---------|---------|---------|
| Menard | Edwards-Trinity (Plateau) | Colorado | 2,194 | 2,194 | 2,194 | 2,194 | 2,194 | 2,194 |
| | Ellenburger-San Saba | Colorado | 791 | 791 | 791 | 791 | 791 | 791 |
| | Hickory | Colorado | 1,016 | 1,016 | 1,016 | 1,016 | 1,016 | 1,016 |
| Midland | Dockum | Colorado | 0 | 0 | 0 | 0 | 0 | 0 |
| | Edwards-Trinity (Plateau) | Colorado | 23,251 | 23,251 | 23,251 | 23,251 | 23,251 | 23,251 |
| | Ogallala | Colorado | 38,388 | 36,824 | 34,623 | 32,693 | 31,325 | 31,325 |
| Mitchell | Dockum | Colorado | 14,018 | 14,018 | 14,018 | 14,018 | 14,018 | 14,018 |
| Pecos | Capitan Reef | Rio Grande | 11,122 | 11,122 | 11,122 | 11,122 | 11,122 | 11,122 |
| | Dockum | Rio Grande | 13,965 | 13,965 | 13,965 | 13,965 | 13,965 | 13,965 |
| | Edwards-Trinity (Plateau) | Rio Grande | 115,938 | 115,938 | 115,938 | 115,938 | 115,938 | 115,938 |
| | Pecos Valley | Rio Grande | 124,182 | 124,182 | 124,182 | 124,182 | 124,182 | 124,182 |
| | Rustler | Rio Grande | 10,508 | 10,508 | 10,508 | 10,508 | 10,508 | 10,508 |
| Reagan | Edwards-Trinity (Plateau) | Colorado | 68,250 | 68,250 | 68,250 | 68,250 | 68,250 | 68,250 |
| | | Rio Grande | 28 | 28 | 28 | 28 | 28 | 28 |
| Reeves | Capitan Reef | Rio Grande | 1,007 | 1,007 | 1,007 | 1,007 | 1,007 | 1,007 |
| | Dockum | Rio Grande | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 |
| | Edwards-Trinity (Plateau) | Rio Grande | 3,389 | 3,389 | 3,389 | 3,389 | 3,389 | 3,389 |
| | Pecos Valley | Rio Grande | 186,722 | 186,722 | 186,722 | 186,722 | 186,722 | 186,722 |
| | Rustler | Rio Grande | 1,976 | 1,976 | 1,976 | 1,976 | 1,976 | 1,976 |
| Runnels | Lipan | Colorado | 15 | 15 | 15 | 15 | 15 | 15 |
| Schleicher | Edwards-Trinity (Plateau) | Colorado | 6,410 | 6,410 | 6,410 | 6,410 | 6,410 | 6,410 |
| | | Rio Grande | 1,640 | 1,640 | 1,640 | 1,640 | 1,640 | 1,640 |
| Scurry | Dockum | Brazos | 306 | 306 | 306 | 306 | 306 | 306 |
| | | Colorado | 903 | 903 | 903 | 903 | 903 | 903 |
| Sterling | Edwards-Trinity (Plateau) | Colorado | 2,497 | 2,497 | 2,497 | 2,497 | 2,497 | 2,497 |
| Sutton | Edwards-Trinity (Plateau) | Colorado | 386 | 386 | 386 | 386 | 386 | 386 |
| | | Rio Grande | 6,052 | 6,052 | 6,052 | 6,052 | 6,052 | 6,052 |
| Tom Green | Edwards-Trinity (Plateau) | Colorado | 426 | 426 | 426 | 426 | 426 | 426 |
| | Lipan | Colorado | 39,361 | 39,361 | 39,361 | 39,361 | 39,361 | 39,361 |
| Upton | Dockum | Colorado | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Rio Grande | 219 | 219 | 219 | 219 | 219 | 219 |
| | Edwards-Trinity (Plateau) | Colorado | 21,257 | 21,257 | 21,257 | 21,257 | 21,257 | 21,257 |
| | | Rio Grande | 1,122 | 1,122 | 1,122 | 1,122 | 1,122 | 1,122 |
| | Pecos Valley | Rio Grande | 2 | 2 | 2 | 2 | 2 | 2 |
| Ward | Capitan Reef | Rio Grande | 1,051 | 1,051 | 1,051 | 1,051 | 1,051 | 1,051 |
| | Dockum | Rio Grande | 7,000 | 7,000 | 7,000 | 7,000 | 7,000 | 7,000 |
| | Edwards-Trinity (Plateau) | Rio Grande | 0 | 0 | 0 | 0 | 0 | 0 |
| | Pecos Valley | Rio Grande | 50,010 | 50,010 | 50,010 | 50,010 | 50,010 | 50,010 |
| | Rustler | Rio Grande | 555 | 555 | 555 | 555 | 555 | 555 |
| Winkler | Capitan Reef | Rio Grande | 1,061 | 1,061 | 1,061 | 1,061 | 1,061 | 1,061 |
| | Dockum | Colorado | 33 | 33 | 33 | 33 | 33 | 33 |
| | | Rio Grande | 9,967 | 9,967 | 9,967 | 9,967 | 9,967 | 9,967 |
| | Pecos Valley | Rio Grande | 39,984 | 39,984 | 39,984 | 39,984 | 39,984 | 39,984 |

**Table 4
Region F
Non-relevant Aquifer Availability Volumes**

| Still non-relevant? | County | Aquifer | Basin | 2011 Plan Availability | 2016 Plan Availability | DFC Compatible Availability | DFC Compatible Availability Source/Method | Comments |
|-----------------------------|-----------|---------------------------|------------|------------------------|------------------------|-----------------------------|---|---|
| Y | Andrews | Edwards-Trinity (Plateau) | Colorado | 4,640 | 3,000 | 1,198 | Current: 2016 TWDB DFC Compatible Availability Value; 2016 plan estimate based on GMA7 GTA 08-05 GAM run, Ector Co area 7 numbers and assumption that approximate areas are equivalent; area 7 is most similar and closest to Andrews | 2011 pumpage (livestock) = 3 2016 pumpage for livestock ~2.4 af (no other reported user) |
| Y | | Pecos Valley Alluvium | Rio Grande | 1,189 | 1,000 | 150 | Current estimate based on existing well reports compiled (2000-2018) plus historical pumping; 2016 plan estimate based on Ector Co DFC compatible availability, both areas on outer edge of basin | 2011 pumpage (livestock) = 34 2016 municipal and livestock pumping = 138 af |
| Y | Coke | Dockum | Colorado | 12 | 0 | 100 | Current estimate: Lots of rig supply wells; previous estimate was TWDB value | |
| Y | | Lipan | Colorado | 0 | 0 | 160 | Current estimate: sum of yield for existing wells; previous estimate was TWDB value | |
| Y | Coleman | Hickory | Colorado | 0 | 500 | 500 | estimate equivalent to Concho Co | no TWDB wells; no known historical use |
| Y | Concho | Edwards-Trinity (Plateau) | Colorado | 12,278 | 487 | 459 | TWDB DFC Compatible Availability Value | 2011 pumpage (livestock) = 184 |
| Y, adding area inside LKGCD | | Lipan | Colorado | 6,513 | 59 | 1,893 | Current: 2016 MAG plus NR volume from 2016 plan | outside Lipan-Kickapoo GAM area = 59; relevant portion (in GCD) MAG=1834 - summed partials (all NR) |
| Y, Brackish | Crane | Rustler | Rio Grande | 0 | 1,000 | 1,000 | Current: Rustler brackish study indicates slightly to moderately saline water in Crane County) 2016 plan estimate based on GMA3 AA-10-37 MAG numbers | 1 well TDS=111,000; 1 well TDS=2,595 (unused) (brackish - outside of fw aquifer boundary) |
| Y | Crockett | Dockum | Colorado | 0 | 80 | 2 | Current estimate revised to account for basin is very small portion of county; 2016 plan estimate based on 25% total inflow for Crockett Co - GAM run 10-001; assume relevant area 25% area of entire county | 2011 pumpage (livestock) = 1 2016 pumping ~1.8 af |
| Y | | Dockum | Rio Grande | 0 | 2 | 2 | TWDB DFC Compatible Availability Value | |
| NEW | Ector | Dockum | Colorado | | | 13 | 2016 MAG | |
| NEW | Ector | Dockum | Rio Grande | | | 515 | 2016 MAG | |
| NEW | Ector | Ogallala | Colorado | | | 8,026 | 2016 MAG | |
| Y | Glasscock | Dockum | Colorado | 140 | 900 | 900 | Estimate based on GMA7 GAM run 10-001 Glasscock Co total inflow and assumes that the non-rel portion area ~ 10% of entire county, TWDB MAG = 0 ?? | brackish - outside of fw aquifer boundary; 2018 - lots of rig supply wells, but not Dockum |
| Y | | Lipan | Colorado | 0 | 10 | 10 | | |
| Y | Howard | Edwards-Trinity (Plateau) | Colorado | 1,700 | 1,650 | 672 | 2016 TWDB DFC Compatible Availability Value | 2011 pumpage (irr, stk, mun) = 3853 2016 pumping = 1485 af |
| Y | Irion | Dockum | Colorado | 0 | 150 | 150 | estimate based on GMA7 GAM run 17-013 Irion Co total Lipan inflow | 2011 pumpage (livestock) = 1; O&G activity high 2016 pumping ~1.1 af |
| Y | | Lipan | Colorado | 0 | 13 | 13 | TWDB DFC Compatible Availability Value | |
| Y | Kimble | Edwards-Trinity (Plateau) | Colorado | 23,965 | 104 | 104 | 2.55% of Kimble CO ETP recharge | |
| Y | | Marble Falls | Colorado | 0 | 100 | 100 | | no wells on WIID |
| Y | McCulloch | Edwards-Trinity (Plateau) | Colorado | 8,249 | 144 | 148 | TWDB DFC Compatible Availability Value | 144 for area within Hickory UWCD; relevant portion MAG=4 |
| Y | | Marble Falls | Colorado | 15 | 50 | 50 | | a few exempt wells; avg. historical use 2007-2011=36 |
| Y | Martin | Edwards-Trinity (Plateau) | Colorado | 3,398 | 1,500 | 242 | Current = 2016 TWDB DFC Compatible Availability Value; previous estimate based on GMA7 GTA 08-05 (p. 7) Midland Co area 9 numbers and assumes non-rel area ~ 33% of Midland Co area 9 | |
| Y | Mason | Edwards-Trinity (Plateau) | Colorado | 3,828 | 18 | 18 | TWDB DFC Compatible Availability Value | 2011 pumpage (livestock) = 12 |
| Y | | Marble Falls | Colorado | 134 | 100 | 100 | | no wells on WIID |
| Y | Menard | Edwards-Trinity (Plateau) | Colorado | 19,000 | 377 | 377 | TWDB DFC Compatible Availability Value | 377 for area within Hickory UWCD; relevant portion MAG=2194 |
| NEW | Midland | Dockum | Colorado | | | 400 | well reports for fracking 7 wells - assume Santa Rosa 35 gpm | BRACKISH TDS ~8000 from 1 well |
| NEW | Midland | Ogallala | Colorado | | | 38,388 | 2016 MAG | |
| NEW | Mitchell | Dockum | Colorado | | | 14,018 | 2016 MAG | |
| NEW | Mitchell | PV, ETP, T | Colorado | | | 0 | 2016 MAG | |
| NEW | Pecos | Igneous | Rio Grande | | | 80 | assume 4-5 stock wells @5-10 gpm | assume 4-5 stock wells @5-10 gpm |

**Table 4
Region F
Non-relevant Aquifer Availability Volumes**

| Still non-relevant? | County | Aquifer | Basin | 2011 Plan Availability | 2016 Plan Availability | DFC Compatible Availability | DFC Compatible Availability Source/Method | Comments |
|-----------------------------|------------|----------------------|------------|------------------------|------------------------|-----------------------------|---|---|
| NEW | Reeves | Igneous | Rio Grande | | | 300 | TWDB 2016 groundwater pumpage = 372 afy (non-surveyed estimates) x 0.8 | |
| NEW | Reeves | Capitan Reef Complex | Rio Grande | | | 1,007 | 2016 MAG | NO WELLS; NO DATA |
| Y, adding area inside LKGCD | Runnels | Lipan | Colorado | 4,536 | 30 | 45 | 2016 MAG | outside Lipan-Kickapoo GAM area=30; relevant portion (in GCD) MAG=15 summed partials (all NR) |
| Y | Schleicher | Lipan | Colorado | 0 | 0 | 0 | TWDB DFC Compatible Availability Value | furthest downdip portion, zero is fine |
| NEW | Scurry | Dockum | Brazos | | | 306 | 2016 MAG | |
| NEW | Scurry | Dockum | Colorado | | | 903 | 2016 MAG | |
| NEW | Scurry | Seymour | Brazos | | | 10 | no wells no data no recharge numbers (no district) | |
| Y | | Dockum | Colorado | 0 | 10 | 10 | TWDB DFC Compatible Availability Value | 2011 pumpage (livestock) = 6 |
| Y | Sterling | Lipan | Colorado | 0 | 50 | 850 | Sterling City system capacity = 2,580 afy pumping 24/7, assume 6 hours pumping/day = 645 afy; average daily consumption = 200 afy | 2013 historical pumping for municipal livestock irrigation and mining = 872 afy |
| Y | | Dockum | Colorado | 54 | 0 | 200 | 2 rig supply wells have been drilled, very small area | 2 rig supply wells have been drilled, very small area |
| Y | Tom Green | PV, ETP, T | Colorado | 15,037 | 2,372 | 2,797 | 2016 MAG | outside Lipan-Kickapoo GAM area=2372; relevant portion (in GCD) MAG=426 this is a sum of partial MAGs from 2016 |
| Y, adding area inside LKGCD | | Lipan | Colorado | 37,486 | 4,207 | 43,568 | 2016 MAG | outside Lipan-Kickapoo GAM area=4207; relevant portion (in GCD) MAG=39361 - summed partials (all NR) |
| NEW | Upton | Dockum | | | | 1,000 | well reports for fracking 17 wells - assume Santa Rosa 35 gpm based on GMA3 AA-10-37 MAG numbers(four Rustler county MAGs total 7180, Ward Co MAG is 555 and is closest in proximity) | |
| Y, Brackish | Winkler | Rustler | Rio Grande | 0 | 500 | 500 | 2018: revised downward | 2 Shell wells: one plugged/destroyed, one TDS=44,000; very brackish for mining or desal only |
| NEW | Winkler | Ogallala | Rio Grande | | | 40 | The nearest well drilled in 2011 (4 miles to northeast) pumps about 25 gpm. About 25 feet of saturated thickness. 40 afy assumes 2 similar wells could be sustained in Winkler. | |

Total: 121,324

Color key

| | |
|--|---|
| | WSP estimate |
| | TWDB 'DFC-compatible' spreadsheet MAG from previous cycle |
| | MAG from previous cycle |

Table 5
Groundwater Supplies from Other Undifferentiated Aquifers
(Acre-Feet per Year)

| County | Aquifer Name | Basin | 2021 Availability |
|---------------|-------------------------------|--------------|------------------------------|
| Borden | Other Aquifer | Colorado | 2,598 |
| Brown | Other Aquifer Cross Timbers | Colorado | 993 |
| Coke | Other Aquifer | Colorado | 2,100 |
| Coleman | Other Aquifer | Colorado | 109 |
| | Other Aquifer Cross Timbers | Colorado | 108 |
| Concho | Other Aquifer | Colorado | 5,964 |
| Mason | Other Aquifer | Colorado | 873 |
| McCulloch | Other Aquifer | Colorado | 103 |
| | Other Aquifer Cross Timbers | Colorado | 103 |
| Mitchell | Other Aquifer | Colorado | 789 |
| Pecos | Other Aquifer San Andres | Rio Grande | 10,000 |
| Runnels | Other Aquifer | Colorado | 5,001 |
| Scurry | Other Aquifer | Brazos | 74 |
| | | Colorado | 315 |

Total: 29,130 afy

APPENDIX D
Methodology for Identifying Potentially Feasible WMSs

TO: Region F Water Planning Group

CC: File

FROM: Simone Kiel

SUBJECT: Methodology to Identify Potentially Feasible Water Management Strategies

DATE: March 6, 2018

PROJECT: CMD17216

The Regional Water Planning rules requires each region to develop and document the process to identify potentially feasible water management strategies (PFWMS). This process is in addition to the process set forth by the TWDB to evaluate each PFWMS. This memorandum presents the proposed process to be used by Region F.

For Region F, the identification process for PFWMS will follow the sequence below:

1. Identify entities with needs
2. Review recommended strategies in previous Regional Water Plan (RWP)
3. Review new studies/ reports
4. Determine if new or changed strategies are needed
5. Review strategy types appropriate for Region F
6. Contact entity for input
7. Contact RWPG representative for county-wide WUGs
8. Verify recommendations

As required by TWC §16.053(e)(3), and 31 TAC §357.34(c) the RWPG shall consider a specified list of strategy types. This list includes 24 water management strategy types that require screening as part of the process for identifying PFWMS.¹

While the TWDB list is comprehensive, not each strategy type is appropriate for every need, and some strategy types may not be appropriate for Region F water users. To determine whether a strategy is potentially feasible, the first considerations are:

- A strategy must use proven technology and must be technically feasible.
- A strategy should have an identifiable sponsor.
- A strategy must consider end use. This includes water quality, economics, geographic constraints, etc. For example, long transmission systems to move water for agricultural use is not economically feasible.
- A strategy must meet existing regulations.

The second consideration is whether a strategy would provide sufficient water to meet a projected need or a sizeable portion of the need. Considerations at this juncture include:

- Is there available existing supply that is not already allocated to another user?

¹ First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development, April 2017. Exhibit C to Contract between TWDB and CRMWD, executed June 22, 2017.

Methodology to Identify Potentially Feasible Water Management Strategies

Region F

March 6, 2018

Page 2 of 3

- Can new water be developed? If yes, identify the potential sources.
- Does the water quality meet the end use requirements? If not, can it be treated?
- Are there any technical considerations that would preclude the feasibility of the strategy type? For example, are there suitable geologic formations for aquifer storage and recovery?

Strategy types that will be reviewed for consideration as potentially feasible for Region F include:

- Water conservation
 - Review for applicability and consider for all WUGs with a need
 - Consider water conservation for all municipal WUGs
- Subordination
 - Consider for Colorado River Basin surface water users
- Reuse
 - Consider for WUGs with needs that generate a waste stream. This includes municipal, manufacturing and mining WUGs.
- Management of existing water supplies/System optimization
 - Consider for WUGs/WWPs that operate multiple water supply sources
- Conjunctive use
 - Consider for WUGs/WWPs that use or will use both surface water and groundwater sources
- Acquisition of available existing water supplies
 - Includes purchase of surface water and groundwater rights
- Developing regional water supply facilities or providing regional management of water supply facilities
- Developing large-scale desalination facilities for brackish groundwater that serve local or regional brackish groundwater production zones identified and designated under TWC §16.060(b)(5)
 - Consider for WUGs/WWPs that intend to develop large scale brackish groundwater for municipal use
- Voluntary transfer of water within the region using, but not limited to, contracts, water marketing, regional water banks, sales, leases, options, subordination agreements, and financing agreements
- Emergency transfer of water under TWC §11.139
- Reallocation of reservoir storage to new uses
 - Consider for reservoirs that are no longer being used for the permitted purpose
- Improvements to water quality
- New groundwater supply
- Interbasin transfers of surface water
 - This would likely be considered as part of a voluntary transfer of water strategy
- Brush control
- Precipitation enhancement
 - Consider for areas with a precipitation enhancement program
- Aquifer storage and recovery

There are several strategy types that likely are not appropriate for Region F water users. However, they may be considered if a project sponsor requests a specific strategy.

- Drought management. Drought management is an emergency measure and is generally not recommended for long-term supply.
- New surface water supply. There are limited opportunities to develop new surface water supplies in Region F. The one strategy in the 2016 RWP is no longer being considered by its sponsor.
- Enhancements of yields. The sources of water for yield enhancement are limited in Region F.

Methodology to Identify Potentially Feasible Water Management Strategies

Region F

March 6, 2018

Page 3 of 3

Three strategy types identified by the TWDB are not appropriate for Region F. These include:

- Developing large-scale desalination facilities for marine seawater that serve local or regional entities. Region F does not have access to seawater.
- Cancellation of water rights. The water rights in the Colorado River Basin have no reliability except Lakes Brownwood and Ivie. Cancellation of water rights in Region F would not provide additional water.
- Rainwater harvesting. The average rainfall over Region F from west to east ranges from 11 to 30 inches per year. During drought there is very little rainfall. This is not a reliable strategy for Region F.

APPENDIX E

List of Potentially Feasible Water Management Strategies

List of Potentially Feasible Strategies for Region F

| Sponsor | County | WMS | Project Type |
|-------------------------|----------------|--|------------------------------|
| Andrews | Andrews | Renew Contract with University Lands | Voluntary Re-distribution |
| Andrews | Andrews | Additional Groundwater | New/expansion of groundwater |
| Ballinger | Runnels | Purchase Water Rights from Clyde (Fort Phantom Hill Reservoir) | Regional Project |
| Ballinger | Runnels | Purchase from Provider | Voluntary Re-distribution |
| Ballinger | Runnels | Subordination | Subordination |
| Balmorhea | Reeves | Additional Groundwater | New/expansion of groundwater |
| Bangs | Brown | Reuse | Reuse |
| Big Spring | Howard | Water Treatment Plant Expansion | Infrastructure Improvements |
| Big Spring | Howard | Purchase from Provider/Subordination | Subordination |
| Brady | McCulloch | Advanced Treatment System | Infrastructure Improvements |
| Brady | McCulloch | Subordination | Subordination |
| Bronte | Coke | Rehabilitation of the Oak Creek Pipeline | Infrastructure Improvements |
| Bronte | Coke | Water Treatment Plant Expansion | Infrastructure Improvements |
| Bronte | Coke | Regional System from Lake Brownwood to Runnels and Coke Counties | Regional Project |
| Bronte | Coke | Regional System from Fort Phantom Hill to Runnels and Coke Counties | Regional Project |
| Bronte | Coke | Additional Groundwater | New/expansion of groundwater |
| Bronte | Coke | Subordination | Subordination |
| Bronte | Coke | Reuse | Reuse |
| Brown County WCID | Brown | Brush control | Brush Control |
| Brown County WCID | Brown | Groundwater Development | New/expansion of groundwater |
| Brown County WCID | Brown | Subordination | Subordination |
| Coleman | Coleman | Subordination | Subordination |
| Coleman County SUD | Brown, Coleman | Subordination | Subordination |
| Colorado City | Mitchell | Reuse | Reuse |
| Colorado City | Mitchell | Additional Groundwater | New/expansion of groundwater |
| Colorado River MWD | Multiple | Ward County Well Field Expansion and Development of Winkler County Well Field | New/expansion of groundwater |
| Colorado River MWD | Multiple | ASR of Existing Surface Water Supplies | Aquifer Storage and Recovery |
| Colorado River MWD | Multiple | Additional Groundwater from Western Region F Counties | New/expansion of groundwater |
| Colorado River MWD | Multiple | Transmission of Additional Groundwater Supplies from Western Region F Counties | Infrastructure Improvements |
| Colorado River MWD | Multiple | ASR of Brackish Groundwater Supplies | Aquifer Storage and Recovery |
| Colorado River MWD | Multiple | Subordination | Subordination |
| Colorado River MWD | Multiple | Desalination of Brackish Groundwater Supplies | Desalination |
| Colorado River MWD | Multiple | Desalination of Brackish Surface Water (CRMWD Diverted Water System) | Desalination |
| Colorado River MWD | Multiple | Conjunctive use of multiple sources | Conjunctive Use |
| Concho Rural WSC | Tom Green | Reuse | Reuse |
| Concho Rural WSC | Tom Green | Additional Groundwater | New/expansion of groundwater |
| County-Other, Andrews | Andrews | Additional Groundwater | New/expansion of groundwater |
| County-Other, Brown | Brown | Additional Groundwater | New/expansion of groundwater |
| County-Other, Coleman | Coleman | Subordination | Subordination |
| County-Other, McCulloch | McCulloch | Purchase from Provider | Voluntary Re-distribution |
| County-Other, Runnels | Runnels | Purchase from Provider | Voluntary Re-distribution |
| County-Other, Runnels | Runnels | Subordination | Subordination |

List of Potentially Feasible Strategies for Region F

| Sponsor | County | WMS | Project Type |
|-------------------------------|-------------------|--------------------------------------|------------------------------|
| County-Other, Scurry | Scurry | Purchase from Provider | Voluntary Re-distribution |
| County-Other, Tom Green | Tom Green | Purchase from Provider | Voluntary Re-distribution |
| Ector County Utility District | Ector | Purchase from Provider | Voluntary Re-distribution |
| Ector County Utility District | Ector | RO from Pecos County | New/expansion of groundwater |
| Eden | Concho | Reuse | Reuse |
| Fort Stockton | Pecos | Additional Groundwater | New/expansion of groundwater |
| Great Plains | Andrews, Gaines | Additional Groundwater | New/expansion of groundwater |
| Greater Gardendale WSC | Ector | Purchase from Provider | Voluntary Re-distribution |
| Greater Gardendale WSC | Ector | Additional Groundwater | New/expansion of groundwater |
| Irrigation WUGs | Multiple | Conservation | Conservation |
| Irrigation, Coleman | Coleman | Subordination | Subordination |
| Irrigation, Crockett | Crockett | Weather Modification | Weather modification |
| Irrigation, Irion | Irion | Weather Modification | Weather modification |
| Irrigation, Mitchell | Mitchell | Weather Modification | Weather modification |
| Irrigation, Pecos | Pecos | Weather Modification | Weather modification |
| Irrigation, Reeves | Reeves | Weather Modification | Weather modification |
| Irrigation, Schleicher | Schleicher | Weather Modification | Weather modification |
| Irrigation, Sterling | Sterling | Weather Modification | Weather modification |
| Irrigation, Sutton | Sutton | Weather Modification | Weather modification |
| Irrigation, Tom Green | Tom Green | Weather Modification | Weather modification |
| Irrigation, Ward | Ward | Weather Modification | Weather modification |
| Junction | Kimble | Dredge Intake | Infrastructure Improvements |
| Junction | Kimble | Additional Groundwater | New/expansion of groundwater |
| Junction | Kimble | Subordination | Subordination |
| Livestock, Andrews | Andrews | Additional Groundwater | New/expansion of groundwater |
| Manufacturing, Andrews | Andrews | Additional Groundwater | New/expansion of groundwater |
| Manufacturing, Andrews | Andrews | Purchase from Provider | Voluntary Re-distribution |
| Manufacturing, Coleman | Coleman | Subordination | Subordination |
| Manufacturing, Howard | Howard | Purchase from Provider | Voluntary Re-distribution |
| Manufacturing, Kimble | Kimble | Additional Groundwater | New/expansion of groundwater |
| Manufacturing, Kimble | Kimble | Purchase from Provider | Voluntary Re-distribution |
| Manufacturing, Pecos | Pecos | Purchase from Provider | Voluntary Re-distribution |
| Manufacturing, Scurry | Scurry | Additional Groundwater | New/expansion of groundwater |
| Manufacturing, Tom Green | Tom Green | Purchase from Provider | Voluntary Re-distribution |
| Manufacturing, Tom Green | Tom Green | Subordination | Subordination |
| Mason | Mason | Additional Water Treatment | Infrastructure Improvements |
| Menard | Menard | Develop New Groundwater | New/expansion of groundwater |
| Menard | Menard | Reuse | Reuse |
| Midland | Midland | Additional Groundwater | New/expansion of groundwater |
| Midland | Midland | Purchase from Provider | Voluntary Re-distribution |
| Midland | Midland | West Texas Water Partnership | Regional Project |
| Miles | Runnels | Subordination/Purchase from Provider | Subordination |
| Millersview-Doole WSC | Concho, McCulloch | Purchase from Provider | Voluntary Re-distribution |
| Mining WUG | Multiple | Mining Conservation | Conservation |
| Mining, Brown | Brown | Additional Groundwater | New/expansion of groundwater |
| Mining, Pecos | Pecos | Purchase from Provider | Voluntary Re-distribution |
| Mining, Scurry | Scurry | Additional Groundwater | New/expansion of groundwater |
| Municipal WUGs | Multiple | Conservation | Conservation |

List of Potentially Feasible Strategies for Region F

| Sponsor | County | WMS | Project Type |
|--------------------------------|-----------|--|------------------------------|
| North Runnels WSC | Runnels | Subordination/Purchase from Provider | Subordination |
| Odessa | Ector | Development of Brackish Groundwater in Ward County | New/expansion of groundwater |
| Odessa | Ector | Development of Groundwater near Fort Stockton | New/expansion of groundwater |
| Odessa | Ector | Subordination | Subordination |
| Pecos County WCID #1 | Pecos | Additional Groundwater | New/expansion of groundwater |
| Robert Lee | Coke | Purchase from Provider | Voluntary Re-distribution |
| Robert Lee | Coke | Regional System from Forth Phantom Hill to Runnels and Coke Counties | Regional Project |
| Robert Lee | Coke | New Water Treatment Plant | Infrastructure Improvements |
| Robert Lee | Coke | Additional Groundwater | New/expansion of groundwater |
| San Angelo | Tom Green | Brush control | Brush Control |
| San Angelo | Tom Green | Hickory Well Field Expansion | Infrastructure Improvements |
| San Angelo | Tom Green | Indirect Reuse | Reuse |
| San Angelo | Tom Green | Red Arroyo Off Channel Storage | New Surface Water |
| San Angelo | Tom Green | West Texas Water Partnership | Regional Project |
| San Angelo | Tom Green | Additional Groundwater | New/expansion of groundwater |
| San Angelo | Tom Green | Subordination | Subordination |
| Snyder | Scurry | Subordination | Subordination |
| Sonora | Sutton | Reuse | Reuse |
| Sonora | Sutton | Additional Groundwater | New/expansion of groundwater |
| Stanton | Martin | Purchase from Provider | Voluntary Re-distribution |
| Steam Electric Power, All | Multiple | CCGT and ACC Generation | Infrastructure Improvements |
| Steam Electric Power, Ector | Ector | Sales from City of Odessa | Voluntary Re-distribution |
| Steam Electric Power, Howard | Howard | Purchase from Provider | Voluntary Re-distribution |
| Steam Electric Power, Howard | Howard | Additional Groundwater | New/expansion of groundwater |
| Steam Electric Power, Mitchell | Mitchell | Subordination | Subordination |
| UCRA | Multiple | Brush Control | Brush Control |
| UCRA | Multiple | Subordination | Subordination |
| Winters | Runnels | Purchase from Provider | Voluntary Re-distribution |
| Winters | Runnels | Subordination | Subordination |