

5.25 Milam County Water Supply Plan

Table 5.25-1 lists each water user group in Milam County and their corresponding surplus or shortage in years 2040 and 2070. For each water user group with a projected shortage, a water supply plan has been developed and is presented in the following subsections.

Table 5.25-1. Milam County Surplus/(Shortage)

Water User Group	Surplus/(Shortage) ¹		Comment
	2040 (acft/yr)	2070 (acft/yr)	
Bell-Milam Falls WSC			See Bell County
City of Cameron	1,169	998	Projected surplus
Milano WSC	37	25	Projected surplus
North Milam WSC	114	140	Projected surplus
City of Rockdale	(613)	(609)	Projected shortage - see plan below.
Salem Elm Ridge WSC	285	269	Projected surplus
Southwest Milam WSC	(419)	(619)	Projected shortage - see plan below.
City of Thorndale	12	(10)	Projected shortage - see plan below.
County-Other	21	4	Projected surplus
Manufacturing	1	1	Projected surplus
Steam-Electric	503	2,771	Projected shortage - see plan below.
Mining	47	57	Projected surplus
Irrigation	(205)	93	Projected surplus

1 – From Tables C-49 and C-50, Appendix C – Comparison of Water Demands with Water Supplies to Determine Needs.

5.25.1 City of Cameron

Description of Supply

The City of Cameron obtains its water supply from run-of-the-river rights at 2,615 ac-ft/yr. The city provides supply to North Milam WSC, Salem Elm Ridge WSC, and to Manufacturing. No shortages are projected for the City of Cameron. Conservation is recommended to reduce the City of Cameron gallons per capita per day (gpcd) in 2030 to a goal of 140 gpcd after the plumbing fixtures act. .

Water Supply Plan

Working within the planning criteria established by the Brazos G RWPG and TWDB, the following water management strategy is recommended for the City of Cameron.

- a. Conservation
 - Cost Source: Volume II

- Date to be Implemented: 2030
- Unit Cost: \$560/acft
- Annual Cost: maximum of \$260,663 in 2070

Table 5.25-2. Recommended Plan Costs by Decade for City of Cameron

Plan Element	2020	2030	2040	2050	2060	2070
<i>Projected Surplus/(Shortage) (acft/yr)</i>	1,252	1,202	1,169	1,111	1,054	998
Conservation						
Supply From Plan Element (acft/yr)	0	107	218	339	449	465
Annual Cost (\$/yr)	\$0	\$60,061	\$122,024	\$190,045	\$251,609	\$260,663
<i>Projected Surplus/(Shortage) after Conservation</i>	1,252	1,202	1,169	1,111	1,054	998

5.25.2 Milano WSC

Milano WSC obtains its water supply from the Carrizo-Wilcox Aquifer at 520 to 496 acft/yr. This WUG is located in Milam and Burleson Counties. No shortages are projected for Milano WSC and no changes in water supply are recommended. Conservation was considered; however, the entity’s current per capita use rate is below the selected target rate of 140 gpcd.

5.25.3 North Milam WSC

North Milam WSC obtains its water supply from the Carrizo-Wilcox Aquifer at 520 to 496 acft/yr. This WUG is located in multiple counties (Milam and Burleson). The surplus shown in the table below and represents the cumulative total for North Milam WSC. No shortages are projected for North Milam WSC and no changes in water supply are recommended. Conservation is recommended to reduce the North Milam WSC gallons per capita per day (gpcd) to a goal of 140 gpcd.

Water Supply Plan

Working within the planning criteria established by the Brazos G RWPG and TWDB, the following water management strategy is recommended for the City of Cameron.

a. Conservation

- Cost Source: Volume II
- Date to be Implemented: 2030
- Unit Cost: \$560/acft
- Annual Cost: maximum of \$10,529,260,663 in 2070



Table 5.25-3. Recommended Plan Costs by Decade for North Milam WSC

Plan Element	2020	2030	2040	2050	2060	2070
<i>Projected Surplus/(Shortage) (acft/yr)</i>	214	140	114	144	151	140
Conservation						
Supply From Plan Element (acft/yr)	0	19	19	18	18	19
Annual Cost (\$/yr)	\$10,461	\$10,908	\$9,822	\$9,802	\$10,529	\$10,461
<i>Projected Surplus/(Shortage) after Conservation</i>	214	140	114	144	151	140

5.25.4 City of Rockdale

Description of Supply

The City of Rockdale obtains its water supply from groundwater from the Carrizo-Wilcox Aquifer at 1,094 to 771 ac-ft/yr from 2020 to 2070. Shortage are projected for the City of Rockdale through 2070.

Water Supply Plan

Working within the planning criteria established by the Brazos G RWPG and TWDB, the following water management strategy is recommended for the City of Rockdale.

- a. Conservation
 - Cost Source: Volume II
 - Date to be Implemented: 2030
 - Annual Cost: maximum of \$116,966 in 2070
 - Unit Cost: \$560/acft
- b. Water Supply from Lee County Carrizo-Wilcox Wells
 - Cost Source: Volume II
 - Date to be Implemented: 2020
 - Project Cost: \$5,048,000
 - Unit Cost: \$1,074/ac-ft

Table 5.25-4. Recommended Plan Costs by Decade for City of Rockdale

Plan Element	2020	2030	2040	2050	2060	2070
<i>Projected Surplus/(Shortage) (acft/yr)</i>	(79)	(289)	(613)	(558)	(562)	(609)
Conservation						
Supply From Plan Element (acft/yr)	0	89	180	198	202	209
Annual Cost (\$/yr)	\$0	\$49,787	\$100,957	\$110,661	\$113,303	\$116,966

Table 5.25-4. Recommended Plan Costs by Decade for City of Rockdale

Plan Element	2020	2030	2040	2050	2060	2070
<i>Projected Surplus/(Shortage) after Conservation</i>	(79)	(200)	(433)	(360)	(360)	(400)
Water Supply from Lee County Carrizo Wilcox Wells						
Supply From Plan Element (acft/yr)	79	200	433	360	360	400
Annual Cost (\$/yr)	\$84,846	\$214,800	\$80,538	\$66,960	\$66,960	\$74,400
Unit Cost (\$/ac-ft)	\$1,074	\$1,074	\$186	\$186	\$186	\$186

5.25.5 Salem Elm Ridge WSC

Salem Elm Ridge WSC obtains its water supply from Cameron at 125 acft/yr and Central Texas WSC at 297 acft/yr. No shortages are projected for Salem Elm Ridge WSC and no changes in water supply are recommended. Conservation was considered; however, the entity’s current per capita use rate is below the selected target rate of 140 gpcd.

5.25.6 Southwest Milam WSC

Description of Supply

Southwest Milam WSC obtains its water supply from groundwater from the Carrizo-Wilcox Aquifer at 1,635 to 1,512 acft/yr. This WUG is located in multiple counties (Milam, Lee, Williamson, and Burlison). The surplus/shortages shown in the table below represent the cumulative totals for Southwest Milam WSC. Southwest Milam WSC is projected to have a surplus from 2020 and a shortage from 2030 through the year 2070. Conservation is recommended to reduce the Southwest Milam WSC gallons per capita per day (gpcd) in 2030 to a goal of 140 gpcd after the plumbing fixtures act.

Water Supply Plan

Working within the planning criteria established by the Brazos G RWPG and TWDB, the following water management strategy is recommended for Southwest Milam WSC.

- a. Conservation
 - Cost Source: Volume II
 - Date to be Implemented: 2030
 - Annual Cost: maximum of \$47,447 in 2070
 - Unit Cost: \$560/acft
- b. Water Supply from Lee County Carrizo Wilcox Wells
 - Cost Source: Volume II
 - Date to be Implemented: 2030
 - Project Cost: \$5,062,000

- Unit Cost: \$816/ac-ft

Table 5.25-5. Recommended Plan Costs by Decade for Southwest Milam WSC

Plan Element	2020	2030	2040	2050	2060	2070
<i>Projected Surplus/(Shortage) (acft/yr)</i>	169	(225)	(419)	(386)	(465)	(619)
Conservation						
Supply From Plan Element (acft/yr)	0	25	54	61	73	85
Annual Cost (\$/yr)	\$0	\$14,082	\$30,407	\$34,396	\$40,872	\$47,447
<i>Projected Surplus/(Shortage) after Conservation</i>	169	(200)	(365)	(325)	(392)	(534)
Water Supply from Lee County Carrizo Wilcox Wells						
Supply From Plan Element (acft/yr)	–	200	365	325	392	534
Annual Cost (\$/yr)	–	\$163,200	\$297,840	\$48,425	\$58,408	\$79,566
Unit Cost (\$/ac-ft)	–	\$816	\$816	\$149	\$149	\$149
<i>Projected Surplus/(Shortage) after WMS</i>	–	0	0	0	0	0

5.25.7 City of Thorndale

The City of Thorndale is located in Milam and partially in Williamson County. The city obtains its water supply from Southwest Milam WSC at 202 acft/yr. Shortages are projected for the City of Thorndale in 2060 to 2070. Conservation was considered; however, the entity's current per capita use rate is below the selected target rate of 140 gpcd.

5.25.8 County-Other

Entities in County-Other obtain supplies from Brazos River Alluvium Aquifer at 160 acft/yr. County Other is projected to have a surplus of water through the year 2070 and no changes in water supply are recommended. Conservation was considered; however, the entity's current per capita use rate is below the selected target rate of 140 gpcd.

5.25.9 Manufacturing

Manufacturing receives supplies from City of Cameron at 14 acft/yr. Manufacturing is projected to have sufficient water supplies through the year 2070 and no changes in water supply are recommended.

5.25.10 Steam-Electric

Milam County Steam-Electric obtains its water supply from Lake Alcoa, Lake Granger from BRA and the Carrizo-Wilcox Aquifer. Based on the available supplies, Milam County Steam-Electric is projected to have surpluses throughout the planning period.

5.25.11 Mining

Milam County Mining obtains its water supply from the Carrizo-Wilcox Aquifer at 76 to 71 acft/yr, from 2020 to 2070, used for mine reclamation. Milam County Mining is projected to have adequate supplies between 2020 and 2070.

Table 5.25-6. Recommended Plan Costs by Decade for Milam County – Mining

Plan Element	2020	2030	2040	2050	2060	2070
<i>Projected Surplus/(Shortage) (acft/yr)</i>	62	50	47	54	57	57
Conservation						
Supply From Plan Element (acft/yr)	–	–	–	–	–	–
Annual Cost (\$/yr)	–	–	–	–	–	–
<i>Projected Surplus/(Shortage) after Conservation (acft/yr)</i>	62	50	47	54	57	57

5.25.12 Irrigation

Milam County Irrigation is supplied by groundwater from the Carrizo-Wilcox, Queen City and Brazos River Alluvium Aquifers as well as run of the river water rights. Irrigation is projected to have shortages in 2030 and 2040, which can be met through conservation. No changes in water supply are recommended.

Water Supply Plan

Working within the planning criteria established by the Brazos G RWPG and TWDB, the following water management strategies are recommended to meet water needs for Milam County-Steam Electric.

- a. Conservation
 - Cost Source: Volume II
 - Date to be Implemented: 2020
 - Annual Cost: maximum \$59,755 in 2070
 - Unit Costs: \$131/acft

Table 5.25-7. Recommended Plan Costs by Decade for Milam County – Irrigation

Plan Element	2020	2030	2040	2050	2060	2070
<i>Projected Surplus/(Shortage) (acft/yr)</i>	239	(104)	(205)	4	93	93
Conservation						
Supply From Plan Element (acft/yr)	195	325	455	455	455	455
Annual Cost (\$/yr)	\$25,609	\$42,682	\$59,755	\$59,755	\$59,755	\$59,755
<i>Projected Surplus/(Shortage) after Conservation (acft/yr)</i>	239	221	250	4	93	93



5.25.13 Livestock

Livestock water supply is projected to meet demands through 2070 and no changes in water supply are recommended.

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