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)	
Town of Buckholts	173	165	Projected surplus
Bell-Milam Falls WSC			See Bell County
City of Cameron	1,188	1,017	Projected surplus
Milano WSC	17	4	Projected surplus
City of Rockdale	174	308	Projected surplus
Southwest Milam WSC	198	103	Projected surplus
City of Thorndale	39	18	Projected surplus
County-Other	632	592	Projected surplus
Manufacturing	2	0	Projected surplus
Steam-Electric	(78)	(6,757)	Projected shortage – see plan below
Mining	0	0	Demand equals supply
Irrigation	12	439	Projected surplus
Livestock	0	0	Demand equals supply

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

5.25.1 Town of Buckholts

The Town of Buckholts obtains its water supply from Central Texas WSC. No shortages are projected for the planning period. Conservation was considered; however, the entity's current per capita use rate is below the selected target rate of 140 gpcd.

5.25.2 City of Cameron

Description of Supply

The City of Cameron obtains its water supply from run-of-the-river rights. The city provides supply to entities in Milam County-Other and to Manufacturing. No shortages are projected for the City of Cameron. The City has informed the Brazos G RWPG that it intends to develop a supply from the Carrizo-Wilcox Aquifer to replace its surface water supplies, which the City considers to be unreliable. Current uses have fully utilized the

MAG in Milam County and there is no remaining MAG in the Carrizo-Wilcox Aquifer in Milam County to accommodate including that strategy in the 2016 Brazos G Plan.

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, Chapter 2
- Date to be Implemented: 2020
- Unit Cost: $496/acft
- Annual Cost: maximum of $230,338 in 2070

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

Plan Element	2020	2030	2040	2050	2060	2070
Projected Surplus/(Shortage) (acft/yr)	*1,270*	*1,220*	*1,188*	*1,129*	*1,073*	*1,017*
Conservation						
Supply From Plan Element (acft/yr)	58	163	269	389	448	464
Annual Cost ($/yr)	$29,006	$80,883	$133,608	$192,894	$222,241	$230,338
Projected Surplus/(Shortage) after Conservation	*1,328*	*1,383*	*1,457*	*1,518*	*1,521*	*1,481*

5.25.3 Milano WSC

Milano WSC obtains its water supply from the Carrizo-Wilcox Aquifer. This WUG is located in multiple counties (Milam and Burleson). The surplus shown in Table 5.25-1 represents the cumulative total for Milano WSC. 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.

5.25.4 City of Rockdale

Description of Supply

The City of Rockdale obtains its water supply from groundwater from the Carrizo-Wilcox Aquifer. No shortages 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, Chapter 2
- Date to be Implemented: 2020
- Annual Cost: maximum of $103,000 in 2030
- Unit Cost: $496/acft

Table 5.25-3. Recommended Plan Costs by Decade for City of Rockdale

Plan Element	2020	2030	2040	2050	2060	2070
Projected Surplus/(Shortage) (acft/yr)	*841*	*662*	*174*	*320*	*355*	*308*
Conservation						
Supply From Plan Element (acft/yr)	43	128	198	195	200	207
Annual Cost ($/yr)	$21,000	$64,000	$98,000	$97,000	$99,000	$103,000
Projected Surplus/(Shortage) after Conservation	*883*	*790*	*372*	*515*	*555*	*515*

5.25.5 Southwest Milam WSC

Description of Supply

Southwest Milam WSC obtains its water supply from groundwater from the Carrizo-Wilcox Aquifer. This WUG is located in multiple counties (Milam, Lee, Williamson, and Burleson). The surplus/shortages shown in Table 5.25-4 represent the cumulative totals for Southwest Milam WSC. Southwest Milam WSC is projected to have a surplus from 2020 through the year 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 Southwest Milam WSC.

a. Conservation

- Cost Source: Volume II, Chapter 2
- Date to be Implemented: 2020
- Annual Cost: maximum of $103,000 in 2030
- Unit Cost: $496/acft

Table 5.25-4. Recommended Plan Costs by Decade for Southwest Milam WSC

Plan Element	2020	2030	2040	2050	2060	2070
Projected Surplus/(Shortage) (acft/yr)	*884*	*591*	*198*	*309*	*262*	*103*
Conservation						
Supply From Plan Element (acft/yr)	33	1	—	—	—	—
Annual Cost ($/yr)	$16,368	$496	—	—	—	—
Projected Surplus/(Shortage) after Conservation	*916*	*592*	*198*	*309*	*262*	*103*

5.25.6 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 and from run of river water rights. No shortages are projected for the City of Thorndale 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.

5.25.7 County-Other

Entities in County-Other receive supplies through the City of Cameron and Central Texas WSC. 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.

5.25.8 Manufacturing

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

5.25.9 Steam-Electric

Description of Supply

Milam County Steam-Electric obtains its water supply from Lake Alcoa, Lake Granger from BRA and the Carrizo-Wilcox Aquifer. Based on the available surface water supply and the MAG limitations, Milam County Steam-Electric is projected to have a shortage beginning in year 2020.

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, Chapter 2
- Date to be Implemented: 2030
- Annual Cost: not determined

b. Little River Off-Channel Reservoir

- Cost Source: Volume II, Chapter 4.7
  - Strategy could be supplied by the BRA System Operation, dependent on permit approval by TCEQ
- Date to be Implemented: 2050
- Project Cost: $175,291,000
- Unit Cost: $710/acft

During the Brazos G regional water planning process, water management strategies such as additional development of Carrizo-Wilcox Aquifer groundwater and the Lake Granger Augmentation Project were preferred options to include in the 2016 Brazos G Regional Water Plan. When confronted by the Modeled Available Groundwater (MAG) limitations of these two options, the BGRWPG has little alternative but to make the Little River Off-Channel Reservoir a recommended strategy.

Table 5.25-5. Recommended Plan Costs by Decade for Milam County – Steam-Electric

Plan Element	2020	2030	2040	2050	2060	2070
Projected Surplus/(Shortage) (acft/yr)	*1,096*	*(34)*	*(78)*	*(7,223)*	*(6,646)*	*(6,757)*
Conservation						
Supply From Plan Element (acft/yr)	0	1,601	2,242	2,869	2,869	2,869
Annual Cost ($/yr)	ND	ND	ND	ND	ND	ND
Projected Surplus/(Shortage) after Conservation (acft/yr)	*1,096*	*1,567*	*2,164*	*(4,353)*	*(3,777)*	*(3,888)*
Little River Off-Channel Reservoir						
Supply From Plan Element (acft/yr)	—	—	—	4,353	4,000	4,000
Annual Cost ($/yr)	—	—	—	$3,090,600	$2,840,000	$2,840,000
Unit Cost ($/acft)	—	—	—	$710	$710	$710

ND – Not determined. Costs to implement industrial conservation technologies will vary based on each location

5.25.10 Mining

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

5.25.11 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 a surplus of water through the year 2070 and no changes in water supply are recommended.

5.25.12 Livestock

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